

**A Genealogical History of
the Greek Text of
the New Testament**

Volume 7

**A Genealogical History of
the Greek Text of
the Book of 1 Corinthians**

By

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CHAPTER 1 INTRODUCTION

This book is the seventh in a series of studies regarding the genealogical history of the text of the Greek New Testament. Volume 1 provided the genealogical history of the Greek text of the Gospel of Matthew; this volume does the same for the Book of 1 Corinthians. The first volume provides an introduction to textual criticism, a review of the various textual critical theories and methodologies, a description of a genealogical theory of textual criticism along with its methodology. Readers not familiar with that volume should read at least the first four chapters of that study before going further, because this work presumes the reader has that informed background. What follows is a brief summary of those chapters.

Textual Criticism

Textual criticism is the branch of literary science which studies surviving copies of ancient literature¹ with the intent of determining the original form of a literary composition.² The problem is that surviving copies of a composition differ because of scribal errors accumulated during the copying history of the composition. At certain places in the text of a composition, existing copies may differ, one having this reading, another having that reading, and yet another having the reading originally written by the author. Such places are called places of variation, and such differing readings are called textual variants. Every place of variation has at least two textual variants.

Because every manuscript is a copy of some earlier copy (exemplar), intuitively one imagines the history of the manuscripts of a composition to be like a family tree. So initially textual scholars of classical literature took this approach with some measure of success. However, when it came to the text of the Greek New Testament, scholars despaired and regarded the genealogical approach as much too complex because of the large number of manuscripts and large number of variants. So, various theories and methodologies were developed to work with the variants at each place of variation to decide which reading is more likely original. But with the development of

¹ Literature composed before the invention of printing, copies of which exist only in handwritten documents. A handwritten copy is referred to as a manuscript.

² The original text of a composition, that is, the actual words written by the hand of its author, is referred to as its autographic text.

high-speed computers, the complex data processing is no longer a problem; all that is needed is a viable genealogical theory together with its associated programable methodology. That's where this project came on the scene.

The present genealogical theory is based on several known facts about the relationship of manuscripts and variant readings. (1) It is a fact that the variants in a manuscript consist of all the uncorrected scribal errors of its ancestral exemplars; this collection of variants may be regarded as the genealogical history of the manuscript, and may be likened to its DNA code. In addition, the variants introduced by the parent exemplar of a manuscript may be regarded as its sibling gene. So, every manuscript has its own DNA and sibling gene, and these data are recoverable from the manuscript database. (2) Sibling manuscripts may be identified by mutual sibling genes, or by greatest quantitative affinity,³ or by both. (3) Sibling manuscripts are daughters of the same parent exemplar the readings of which may be recovered from the consensus of its daughters' readings, except where no consensus exists. Sibling daughter manuscripts inherit all the readings of their parent exemplar except where their own scribes initiate a new one. In case of ambiguity (where no consensus exists), one variant will have been inherited and the other will have been newly initiated. Inherited variants have history and may be identified by the principle of delayed ambiguity,⁴ whereas newly initiated variants have no history and fail the test of delayed ambiguity. (4) A reconstructed exemplar may stand in place of all its descendants in the database, and function as their representative in that stage of reconstructing the genealogical history. (5) Iteration of the above steps will converge genealogical stemma into a single exemplar representing the autographic text. The actual methodology as described in the first volume is more complex than the above, but the above is sufficient to describe the basic principles.

The Problem of Mixture

Mixture occurred when a scribe copied from more than one exemplar. Critics of the genealogical method assert that mixture creates an irresolvable complication. But, as it turned out, as far as the reconstructing procedure is concerned, a reading copied from a secondary exemplar is no different than a variant newly initiated by the scribe either by mistake or intent. Both are uninherited from the primary exemplar; the only difference is that a newly initiated variant has no history, whereas a variant borrowed by mixture has a history, but a history outside the genealogical

³ Quantitative affinity is a measure of how similar two manuscripts are to one another.

⁴ The principle of delayed ambiguity says that the inherited variant will be a reading of the grandfather exemplar when it develops.

descent of the primary exemplar. So, mixture is not a problem for the reconstruction methodology described above. The sources of mixture in genealogical history may be of interest in some cases. A separate algorithm of the software finds the most likely source of every variant introduced by mixture rather than by scribal error or intent.

The Database Used

The database used in this project is derived from an expansion of the Nestle-Aland 27th edition of the *Greek New Testament*⁵ hereafter referred to as NA-27. The variations of the text are listed at the bottom of each page, providing the verse number where the variation occurs, the associated symbol indicating the kind of variation, the alternate readings that occur there, and a list of witnesses⁶ that contain the given alternate reading. The list of witnesses is provided in compressed form in order to avoid as much repetition as possible. This compressed form is useful for conserving paper and ink, and is relatively easy for scholars to follow. But the computer software must have every item of data explicitly recorded, that is, there must be a record of every witness to the text under study, and a record of which variant reading each witness has at every place of variation. This necessity requires the NA-27 database to be unpacked and expanded. Until recently the NA-27 database existed only in printed form, and expanding the data into the form needed by the genealogical software was a complex and time consuming task.⁷ However, the database is now available in digital electronic form in the *Stuttgart Electronic Study Bible*.⁸ That form of the database is capable of being expanded and unpacked electronically.

The expanded database consists of two separate files, one containing a list of every witness together with its name, date, language, and content. The second file is a list of every place of variation in the NA-27 database, the chapter and verse number where the variation occurs, the Greek text of each variant at that place of variation, along with a list of witnesses containing the given variant.

The present program, called Lachmann-10 herein, is written in the Turbo Pascal 7.0 programming language intended for IBM compatible machines with extended memory. The size of

⁵ *Novum Testamentum Graece* (Stuttgart: Deutsche Bibelgesellschaft, 1997).

⁶ The witnesses consist of individual manuscripts, translations, and patristic quotations.

⁷ All my prior research with the genealogical software was done with data manually extracted from the already expanded database in the United Bible Society's *Greek New Testament*.

⁸ Christof Hardmeier, Eep Talstra, and Bertram Salzmann, *The Stuttgart Electronic Study Bible* (Stuttgart, Germany: The German Bible Society, 2004); used with permission.

the problems it can handle is flexible and is limited only by the amount of RAM available and the speed of the machine [up to a maximum of 2,000 variation units and 2,000 manuscripts]. Large problems require a reasonable amount of time to converge on a solution. The next chapter describes the genealogical history of the extant witnesses to the Greek text of the Book of 1 Corinthians.

CHAPTER 2

WITNESSES TO THE TEXT OF 1 CORINTHIANS

The witnesses¹ to the text of the Book of 1 Corinthians used in this study are those derived from the electronic form of the textual apparatus of the NA-27 edition of the Greek New Testament as contained in the *Stuttgart Electronic Study Bible*² as edited and modified for the purposes of this project. They consist of 143 existing witness³ of various types:

(1) Papyrus manuscripts	9
(2) Uncial manuscripts	42
(3) Minuscule manuscripts	33
(4) Lectionary manuscripts	6
(6) Latin Versions	13
(7) Egyptian Versions	4
(8) Syriac Versions	2
(14) Greek Church Fathers	17
(15) Latin Church Fathers	11
(16) Printed Editions	6 ⁴

¹¹ I use the term witness because the reconstruction of genealogical history derives evidence not only from extant manuscripts but also from ancient translations and quotations from church fathers. In addition, a few printed editions are involved although not for reconstruction purposes.

² Christof Hardmeier, Eep Talstra, and Bertram Salzmann, *The Stuttgart Electronic Study Bible* (Stuttgart, Germany: The German Bible Society, 2004).

³ Appendix A lists all the extant witnesses by name, date, language, content, number of readings, and percentage of completeness.

⁴ Two editions of the Latin Vulgate: vg^{cl}, and vgst; Scrivener's TR; Hodges-Farstad HF; Robinson-Pierpont's RP; and NA27. These do not contribute to reconstructing the stemma.

The witnesses to the text of an ancient document must have several characteristics before a reasonably reliable reconstruction of its genealogical history can be made. Among these are (1) number of witnesses, (2) date, (3) completeness, (4) limited variableness, (5) commonness of text, and (6) genealogical affinity. These characteristics of the available witnesses to the text of 1 Corinthians are discussed below and are shown to be suitable for a reasonable reconstruction of its textual history.

Number of Witnesses

Contrary to the number of available witnesses to the texts of ancient classical literature, there are approximately 2,328 existing Greek manuscripts of the Gospels, including about 178 fragments.⁵ This does not include the witnesses of the ancient translations and church fathers. This study makes use of the 143 witnesses to the Book of 1 Corinthians recorded in the NA-27 apparatus which includes all the ancient papyri witnesses and most of the existing manuscripts dating before the ninth century and a good sample of those from later times. This number includes the consensus witness of the many manuscripts of the text used in the Greek speaking Byzantine churches together with a number of manuscripts related to the Byzantine text. Also, it contains the consensus witness of the many manuscripts of the Latin Vulgate and the individual witness of two different printed editions of the Vulgate. The various Old Latin translations also are represented by a consensus of a number of manuscripts of each of these individual translations. Consequently, the consensus witnesses bring many additional manuscripts indirectly into the reconstruction process. There is good reason to believe that there are sufficient witnesses to the text of the Book of 1 Corinthians to reconstruct its genealogical history.

Date

While it is possible to reconstruct the genealogical history of a text without the benefit of dates, they are very helpful for accurately locating scribal activity in real history. The dates of the witnesses to 1 Corinthians range from the second to the twenty-first centuries.⁶ Table 2.1 and its associated graph display the reasonably good distribution of the witnesses by date.

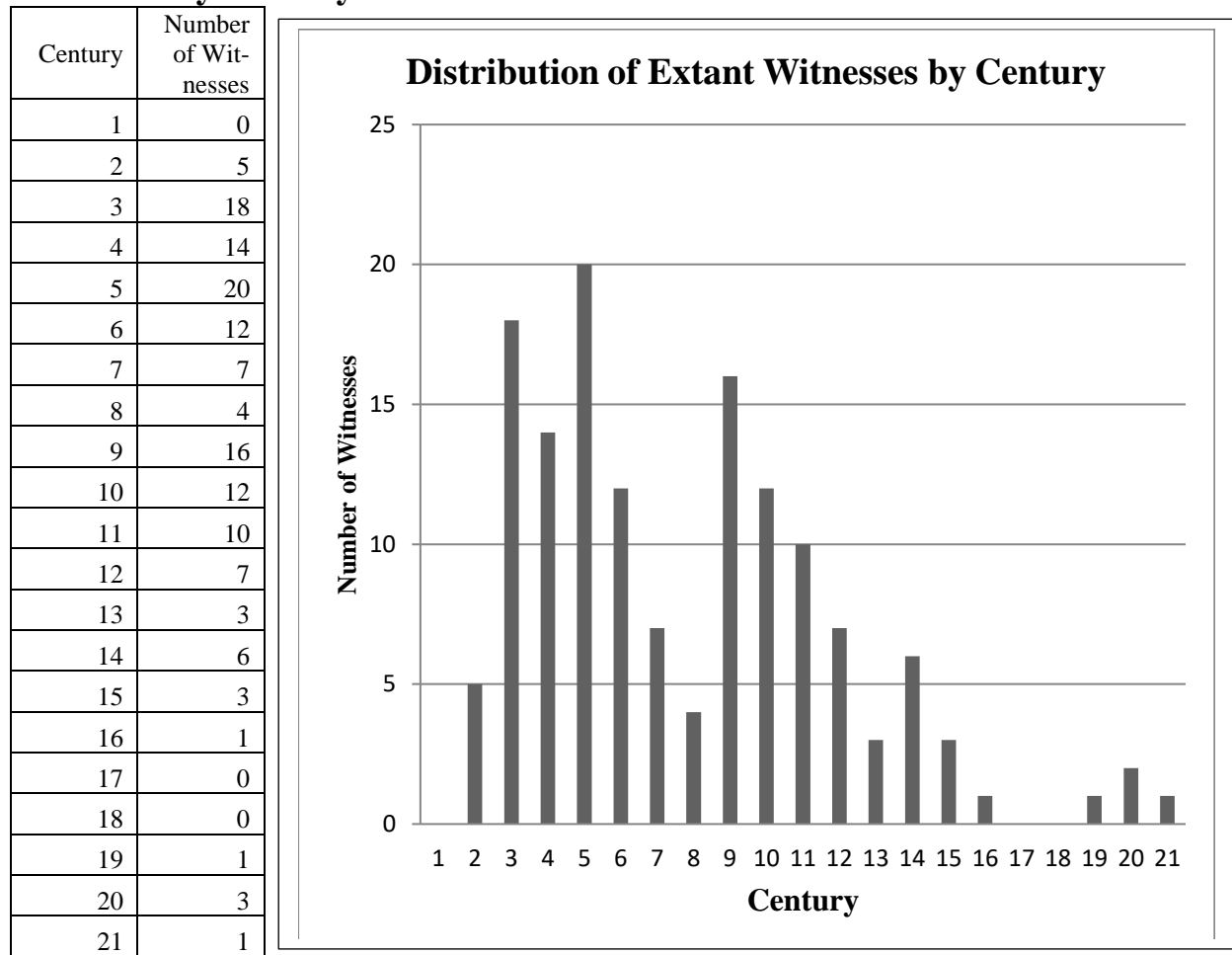
⁵ Aland and Aland, p. 83.

⁶ The witnesses in the 19th to the 21st centuries are printed editions that do not contribute to the reconstruction of the genealogical history.

Completeness

Many of the witnesses are fragmentary, not all their text having survived the passage of time. Only 46 of the 143 witnesses have 96-100% of their text complete, and only 60 have a text 80% or more complete; thus, completeness is significant for this study. Table 2.2 and its associated graph display the distribution of completeness for the witnesses used in this study.

Table 2.1:
Distribution of Extant
Witnesses by Century:



Completeness is important for the reconstruction of the textual history, because the computer depends on minimal difference between witnesses to determine quantitative affinity. Consequently, the computer reconstructed the genealogical history on the basis of witnesses having at least 80% of their text complete; the more fragmentary witnesses are added to the genealogical

tree where they best fit after the tree is constructed. The fragmentary witnesses are still important and should not be excluded from the study because they contribute to establishing fixed dates in the textual history.

Because many of the witnesses are fragmentary, it is of interest to know the distribution of those witnesses having 80% or greater completeness. They are the ones that contribute to the reconstruction of the genealogical history.

Table 2.2
Distribution of Witnesses
by Completeness:

% Complete	Number of Witnesses
0-5	39
6-10	8
11-15	1
16-20	3
21-25	3
26-30	2
31-35	1
36-40	0
41-45	0
46-50	2
51-55	1
56-60	2
61-65	5
66-70	6
71-75	2
76-80	8
81-85	9
86-90	0
91-95	5
96-100	46

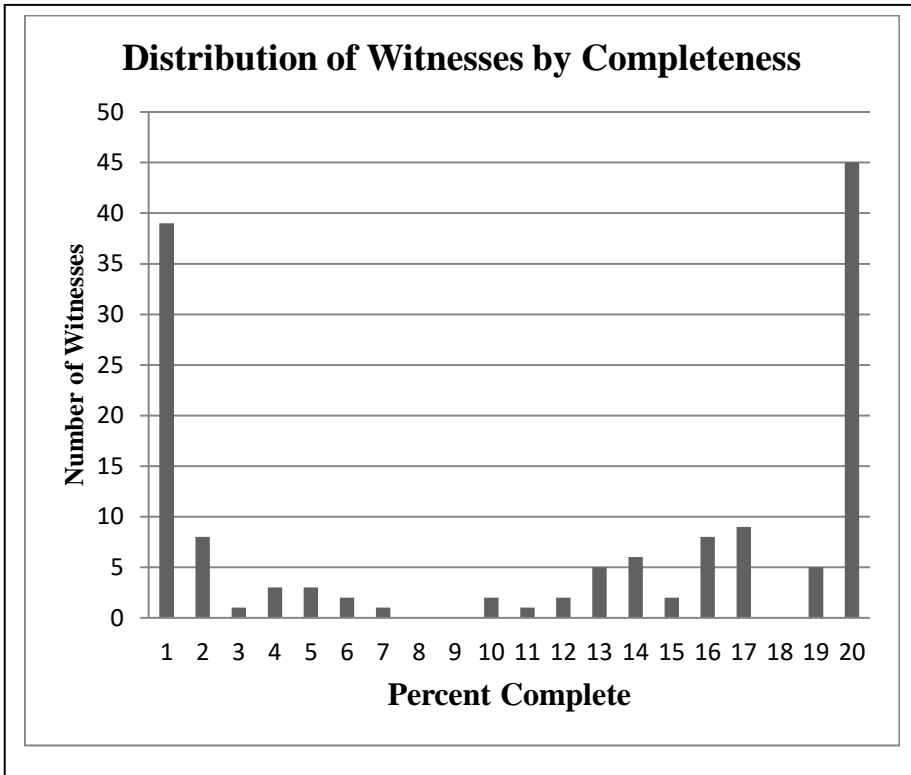


Table 2.3 and its associated graph display the distribution of these witnesses. It is evident that numerous contributing witnesses are from as early as the third century, so a reasonably good reconstruction can be expected.

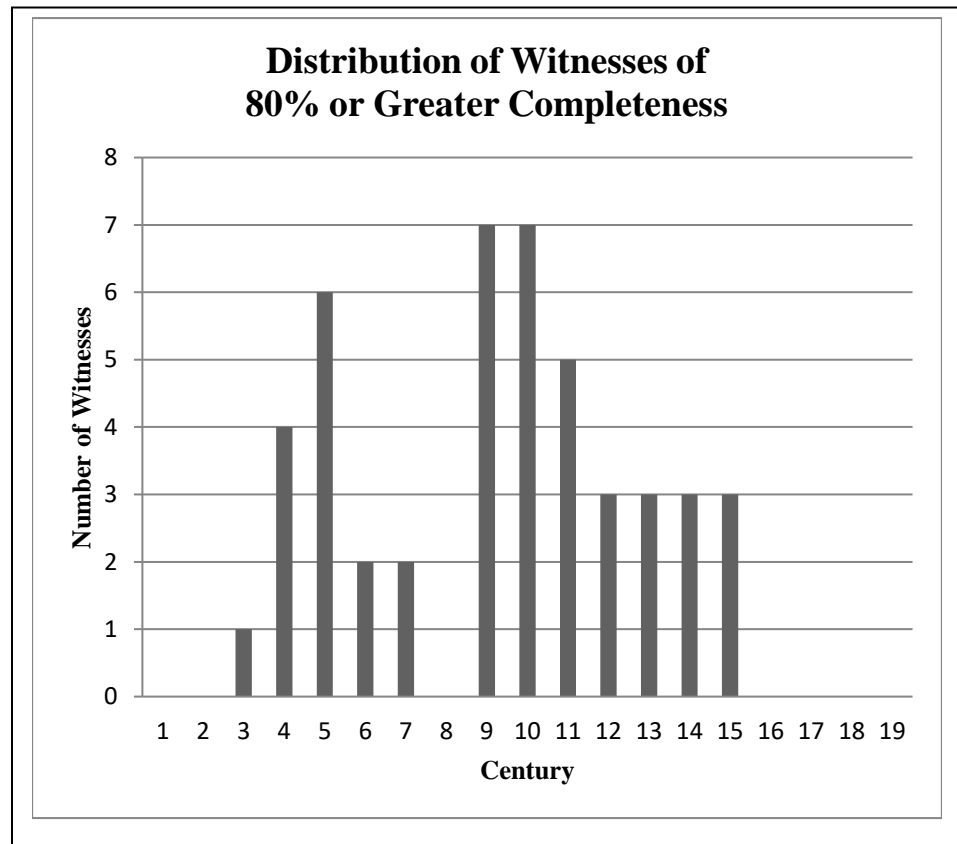
Limited Diversity

The more diverse the text the more difficult the reconstruction of its textual history is. In the overall picture, all witnesses to 1 Corinthians agree in over 90% of the text. The places of

variation and the number of variants at those sites provide the data for reconstruction. However, even so, the number of places of variation and the number of variants constitute a limit to what can be reconstructed because of the magnitude and complexity of the problem.

Table 2.3
Distribution of Witnesses of
80% or Greater Completeness
by Century

Century	Num. of Witnesses
1	0
2	0
3	1
4	4
5	6
6	2
7	2
8	0
9	7
10	7
11	5
12	3
13	3
14	3
15	3
16	0
17	0
18	0
19	0



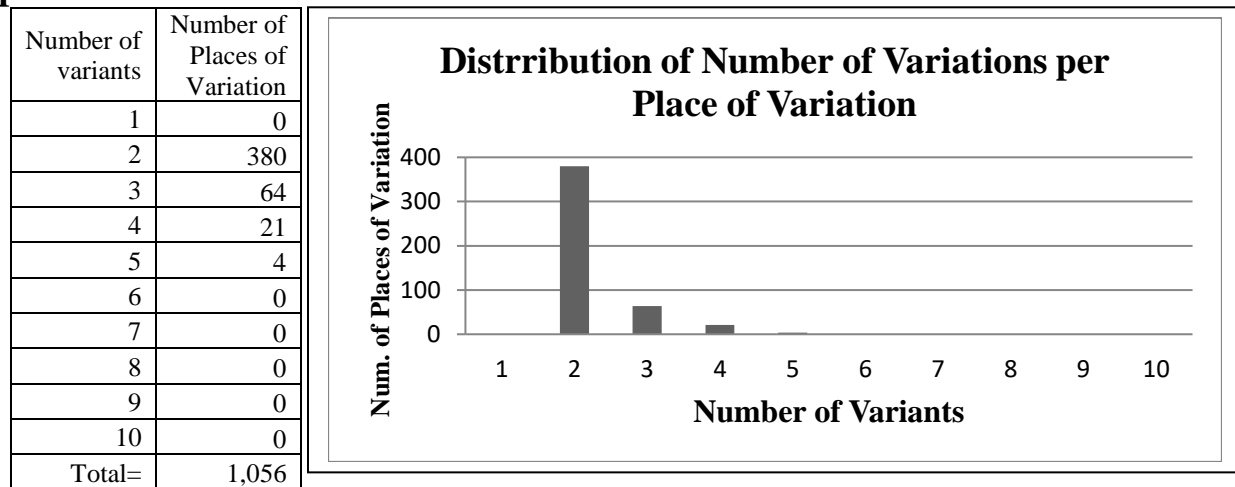
But modern technology has expanded that limit to where reconstruction is now possible for texts the size and diversity of 1 Corinthians. The NA-27 apparatus records 469 places of variation⁷ for the Book of 1 Corinthians with a total of 1,056 variant readings distributed among them.⁸

⁷ Of course, there are more places of variation than this, but the editors of the NA-27 text have weeded out those that are insignificant for reconstruction and meaning.

⁸ Appendix B provides a map showing where the places of variation occur in the text by chapter and verse.

This averaged out to 2.25 variants per place of variation. In earlier decades, this amount of information would have been impossible to manually process, but not so today; my desktop computer provides complete solutions to problems this size in just a matter of minutes. Table 2.4 and its associated graph display the distribution of the number of variations per place of variation. For example, 380 places of variation have only two variations whereas only four places of variation have five variations.

Table 2.4
Distribution of Number of Variations
per Place of Variation



However, a few maverick witnesses occur whose diversity obscures their genealogical affinity. These witnesses skew the reconstruction of the stemma and for this reason are excluded from the process but are added to the completed stemma where they best fit. For 1 Corinthians they are P^{46*} and its correctors, D^{06*} and its correctors, F*, and G^{012*} and its corrector; these each have an affinity with their parent exemplar of only 68%.

The NA-27 apparatus records seven different types of variations to the text. Table 2.5 displays the distribution of these types of variation for the Book of 1 Corinthians. While the type of variation has no significance for the reconstruction process, the information is provided for those who are interested.

Commonness of Text

Commonness is a measure of the percentage of text two witnesses have in common. When two witnesses both have complete texts, that is, they are not fragmentary, having readings at every

place of variation, they have 100% commonness, regardless of the agreement or disagreement of their readings.

Table 2.5
Distribution of Variation Type

Omit a word	143
Omit a phrase	39
Alternate word	425
Alternate words	225
Transposed words	28
Added word or phrase	196
Other	0
Total =	1,056

Fragmentary witnesses, however, are less than complete and may actually have no commonness of text. For example, witness A may be 40% complete, lacking the text for the last 60% of the places of variation, and witness B may be 40% complete, lacking the text for the first 60% of the places of variation; as a result, the two witnesses have no commonness of text. The greater the commonness of text two witnesses have the greater potential they have for genealogical affinity. Table 2.6 and its associated graph display the distribution of commonness each witness shares with every other witness for the Book of 1 Corinthians.

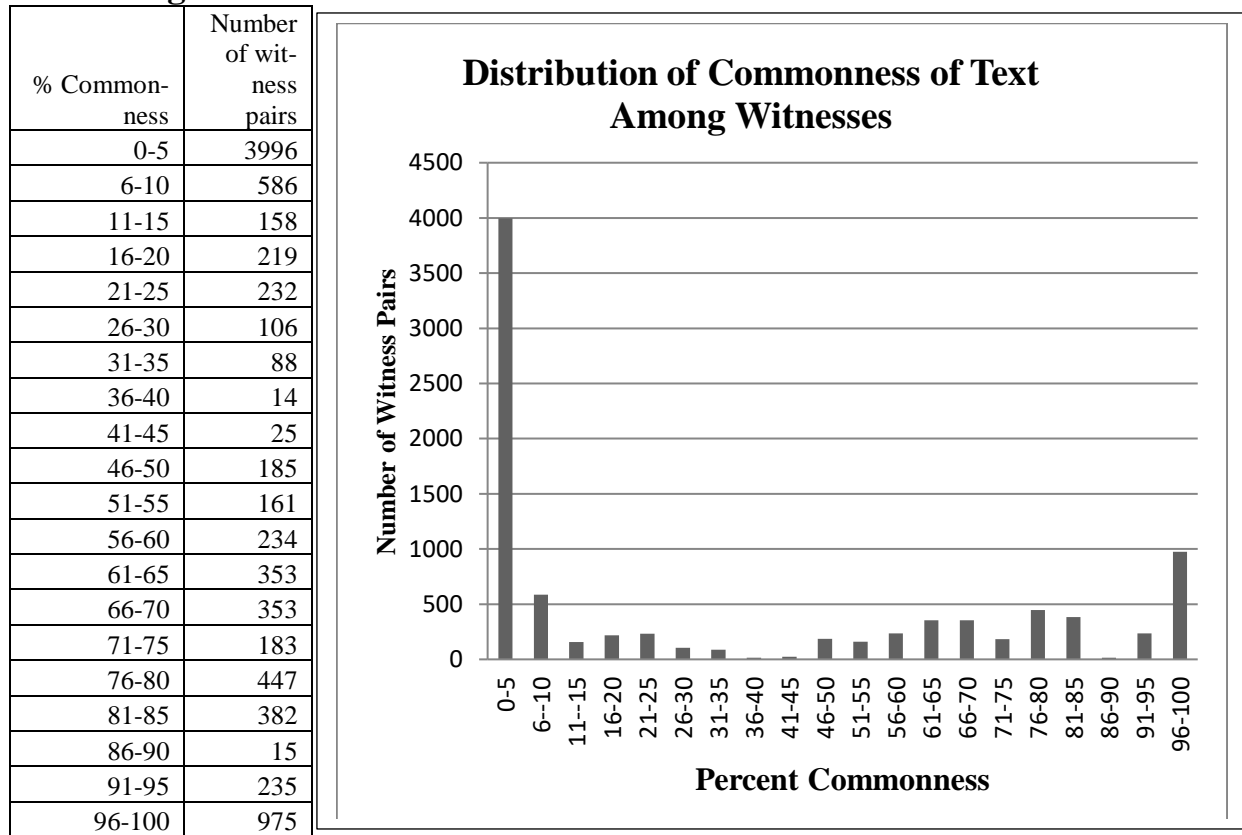
Quantitative Affinity

Quantitative affinity⁹ is a measure of how strongly two witnesses are genealogically related. Witnesses are genealogically related when they have many of the same readings at their shared places of variation. Quantitative affinity is determined by the number of places of variation where the witnesses have the same reading divided by the number of places of variation the witnesses have in common. For example, if witness A and witness B have 1,000 places of variation in common, and in 952 places they have the same reading, the quantitative affinity of A to B is $952 \div 1,000 = 0.952$ or 95.2%. Table 2.7 and its associated graph display the distribution of quantitative affinity among all the pairs of witnesses for the Book of 1 Corinthians. It is evident that many of the extant witnesses to 1 Corinthians have relatively strong quantitative affinity with one another. These data are skewed because of the many fragmentary witnesses. A better picture of the significant affinity is that which is among witnesses having 80% content or greater. These witnesses are the ones used to reconstruct the genealogical history. Table 2.8 and its associated graph

⁹ Quantitative affinity is supplemented by the sibling gene to affirm sibling relationship.

display the distribution of quantitative affinity among witnesses having 80% content or greater. This suggests that reconstruction of the genealogical history is reasonably feasible.

Table 2.6
Distribution of Commonness of Text among Witnesses



Genealogical Affinity

Genealogical affinity among witnesses occurs when they share a common sibling gene. The sibling gene of a witness consists of the variants initiated in its parent exemplar. This information is derived from the database as the variants of two witnesses share that occur a minimum number of times in the database.

Conclusion

There are sufficient witnesses to the text of the Book of 1 Corinthians with dates distributed over the historical period of interest, being sufficiently complete, having relatively limited diversity, and having ample mutual commonness and strong genealogical affinity. There is good reason

to expect that the genealogical history derived from these witnesses will be a good approximation of the actual textual history of the book.

Table 2.7
Distribution of Quantitative Affinity
Among all Witnesses

% Affinity	Number of Witnesses
0-5	1492
6-10	38
11-15	71
16-20	134
21-25	203
26-30	51
31-35	133
36-40	93
41-45	120
46-50	542
51-55	491
56-60	460
61-65	454
66-70	549
71-75	1043
76-80	758
81-85	637
86-90	654
91-95	717
96-100	951

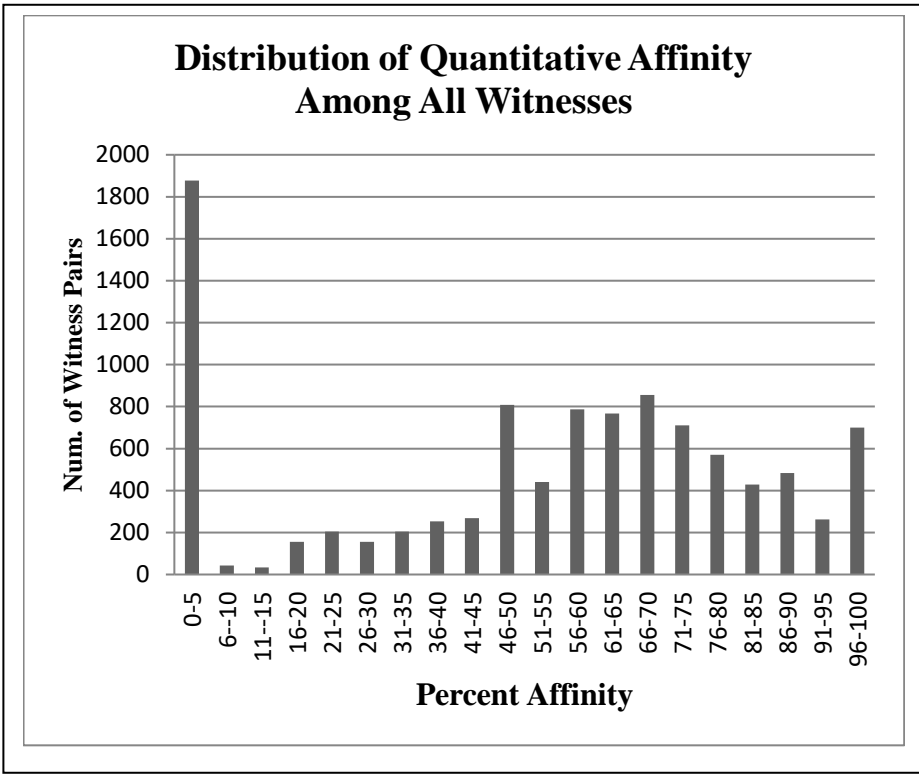
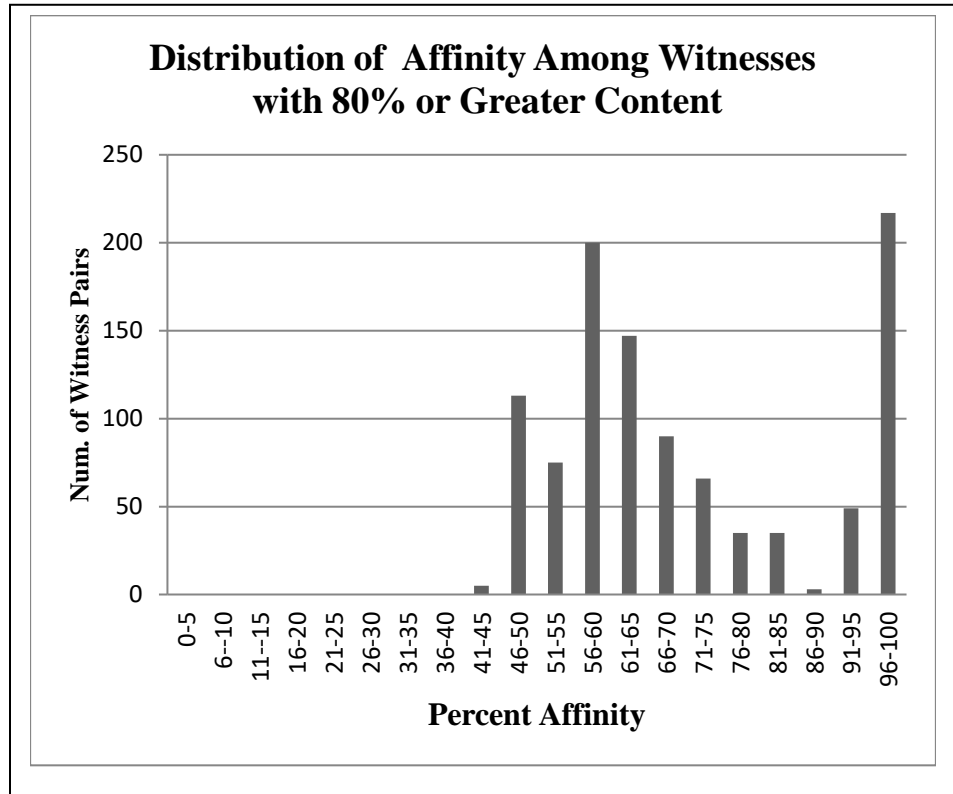


Table 2.8
Distribution of
Quantitative Affinity
Among Witnesses with
80% or Greater Content

% Affinity	Number of Witnesses
0-5	0
6--10	0
11--15	0
16-20	0
21-25	0
26-30	0
31-35	0
36-40	0
41-45	14
46-50	202
51-55	96
56-60	49
61-65	67
66-70	157
71-75	192
76-80	236
81-85	177
86-90	246
91-95	113
96-100	281



CHAPTER 3

GENEALOGICAL HISTORY OF THE MANUSCRIPTS OF 1 CORINTHIANS

This chapter presents the genealogical history of the manuscripts¹ of the Greek text of the Book of 1 Corinthians as reconstructed by computer program Lachmann-10.² Beginning with a data base of 143 existing witnesses, 469 places of variation, and 1,056 variants, the program reconstructed 24 intermediate exemplars, arranging them in the genealogical stemma (tree diagram) presented in its full form in Appendix C, but in a condensed form in Figure 3.1.³ This condensed form portrays the genealogical interrelationship of all the reconstructed exemplars of the text of 1 Corinthians in which the exemplars are shown with only one principal extant witness. The rectangular boxes contain the information for the exemplars created by the software and the boxes with rounded corners contain the information for the extant witnesses. Witnesses in the same box are siblings. Figure 3.2 displays a second tree diagram including most of the terminal witnesses. All the technical data and diagrams contained in this chapter were derived from the monitor screen of Lachmann-10 or the report it created.

The head exemplars of the three main branches of the stemma are exemplars Ex-166#, Ex-155#, and Ex-165#; the texts of these exemplars are the ancient recensions from which the three unique text traditions developed. These branches are quite independent of one another, having

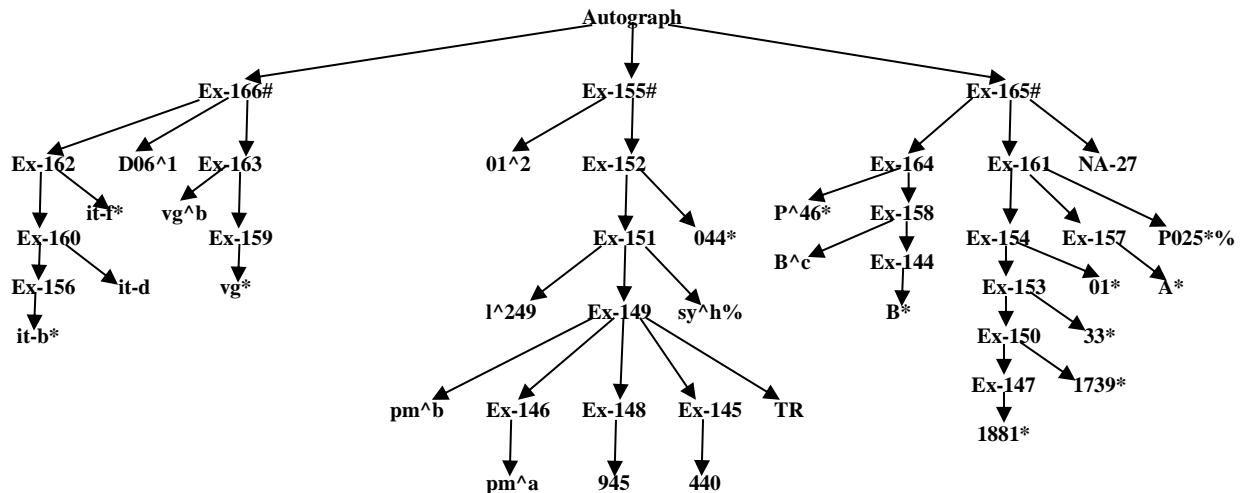
¹ The term *manuscript* is used here in its inclusive sense of manuscripts, translations, church fathers, and reconstructed exemplars—the sense I usually assign to the term *witness*.

² The total computing time was one minute and forty-three seconds including the time required for the software to assemble and format all the information contained in the tables, diagrams, and appendices of this book.

³ The full diagram, displayed in Appendix C, requires six pages. The condensed form deletes all the terminal branches (extant witnesses) except one at each exemplar—the most interesting one. Likewise, it omits exemplars that only account for same-generation mixture (those with a \$ sign attached to their name).

mutual affinities ranging from 74% to 79%.⁴ But they have affinities with the autograph ranging from 84% to 93%. In addition, the sibling gene of each uniquely distinguishes them from one another.

Figure 3.1
Condensed Tree Diagram of 1 Corinthians



Readings of the Autographic Text

The theory expressed in the first volume of this series⁵ indicates that the readings of the autographic text should be determined on the basis of the “consensus among ancient independent witnesses.” The solution for 1 Corinthians ended up with three independent recensions which were candidates for being witnesses to the text of the autograph. The guideline given in the theory recommended selecting the three most ancient recensions for use in determining the consensus; for 1 Corinthians they are: Ex-155#, Ex-165#, and Ex-166#. The text of the autograph is presented in Appendix D.

⁴ Ex-155# to Ex-165# (0.79); Ex-155# to Ex-166# (.74); Ex-165# to Ex-166# (0.77).

⁵ Chapter Two of *The Genealogical History of the Greek Text of the Gospel of Matthew*.

Figure 3.2
Condensed Genealogical Stemma-1 of 1 Corinthians
The Antiochan Recension

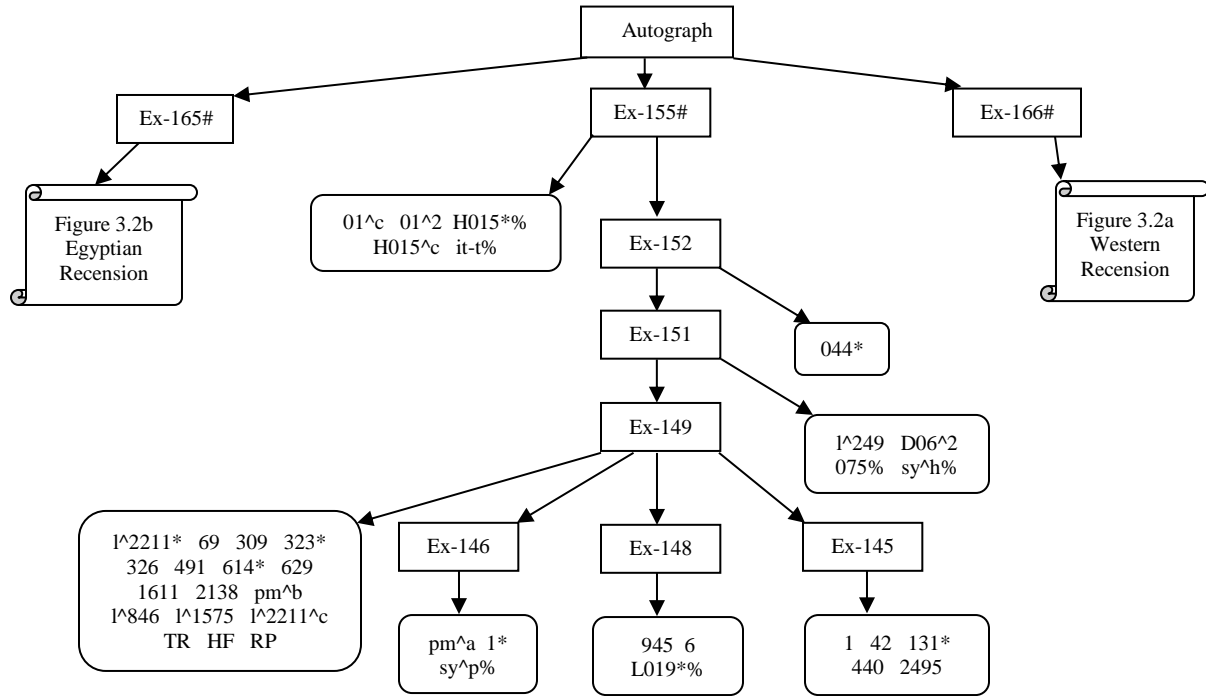


Figure 3.2a
The Western Recension

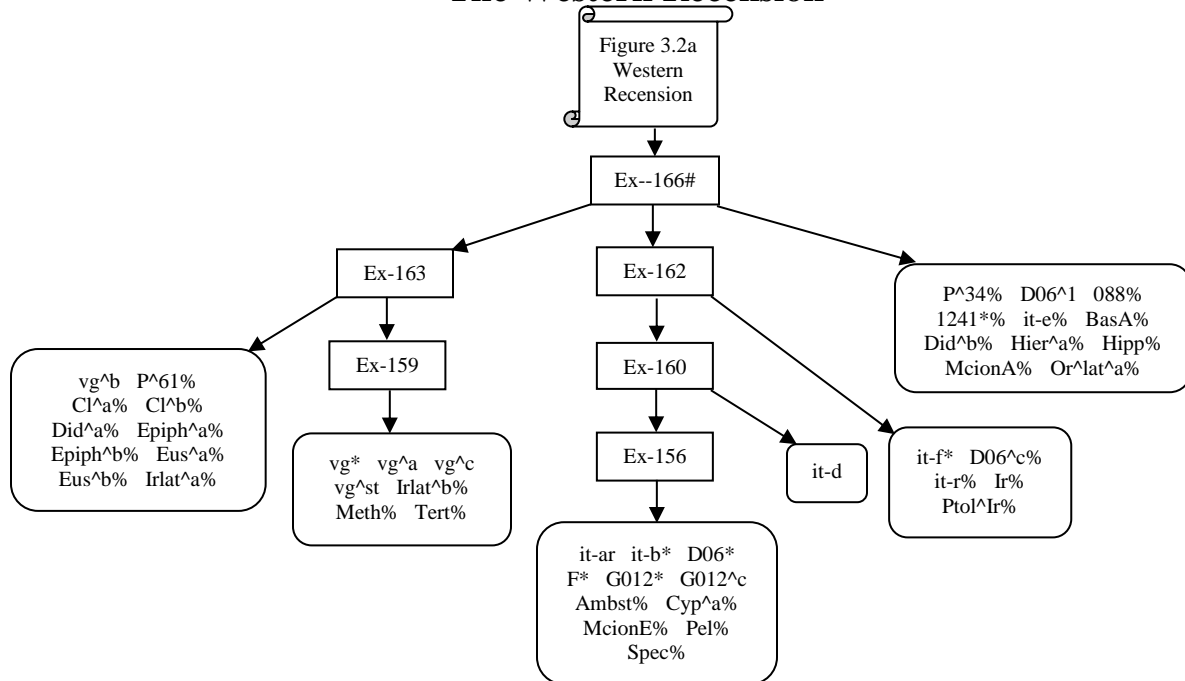
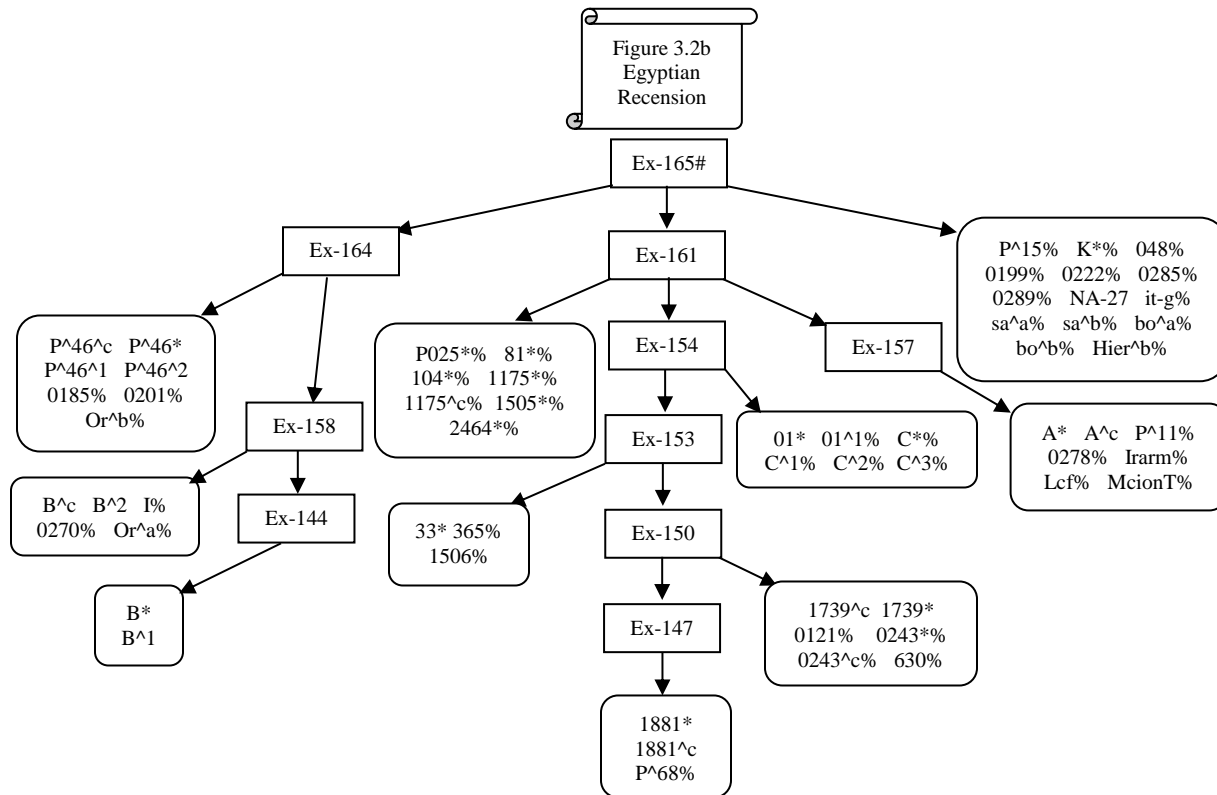


Figure 3.2b
The Egyptian Recension



The Western Text Tradition

Figure 3.3 displays the first generation of the genealogical history of the text of 1 Corinthians, together with the expansion of the branch of the Western Recension exemplar Ex-166#. Witnesses in boxes with square corners are reconstructed exemplars; those in boxes with rounded corners are terminal branches—that is, they contain extant witnesses. The expansions of the two other recensions (Exemplars Ex-155# and Ex-165#) are displayed in Figures 3.4 and 3.5 respectively.

The format of the information on each line is as follows: (1) the name of the witness; (2) the genealogical affinity of the witness with its primary parent exemplar, enclosed in square brackets []; (3) generation from the autograph, enclosed in angular brackets <>; (4) date, enclosed in curly brackets {}; (5) the number of variants the witness differs from its primary parent, enclosed in solidus //; (6) The number of variants in the sibling gene; and (7) the number of parents the witness has.

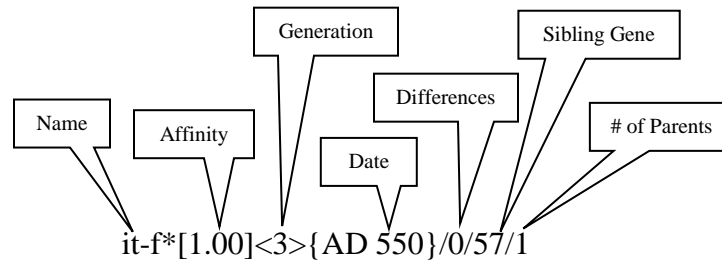
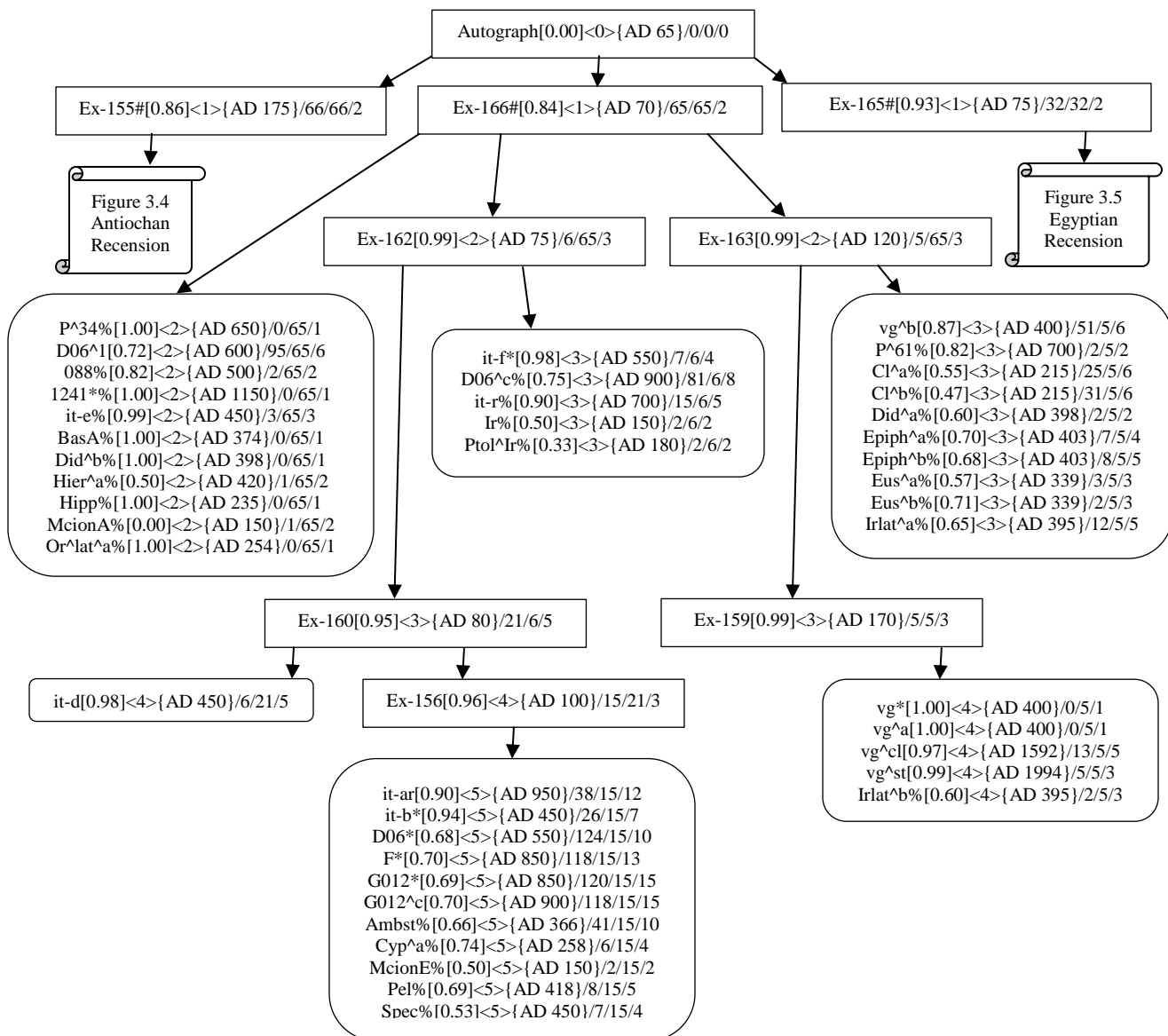


Figure 3.3
Expanded First Generation
With the Western Text Tradition



The Western text tradition is supported by nearly all of the Old Latin translations, by most of the Latin Vulgate witnesses, by papyrus P³⁴, by some uncials, and by some Latin church fathers. Exemplar Ex-166# was the first-century recension (c. AD 70); it was the ancestral text from which most of the Old Latin translations were derived, as well as the Latin Vulgate witnesses. I refer to this branch as the Western text tradition. It has a depth of five generations, although it has extant witnesses as recent as AD 1150 (1241*). This recension has an affinity with the autograph of 84%, differing from the autograph by 65 variants, and having 2 parents.⁶ It has 65 variants in its sibling gene, most of which are persistent throughout the witnesses in the branch. Its date (c. AD 70) is based on that of fifth-generation Marcion (McionE c. AD 150), although its affinity with its parent exemplar Ex-156# is only 50%, based on four places of variation; an alternate date would be c. AD 80, based on third-generation Irenaeus (Ir c. AD 215), having an affinity of 50% based on four places of variation—not a very firm foundation.

This text tradition has two main sub-branches, one headed by second-generation exemplar Ex-162 (c. AD 75), which is the texts from which most of the Old Latin translations were derived; and the other headed by second-generation exemplar Ex-163 (c. AD 120), which is the text from which the Vulgate witnesses were derived. The one headed by exemplar Ex-163 is a relatively tightknit group, supporting the text of the tradition closely (c. 99%) throughout, whereas the branch headed by exemplar Ex-162 is more diverse, supporting the text of the tradition also by 99%; the Latin Vulgate being the most diverse. The two branches have a mutual affinity of 97%, differing in eleven places of variation.

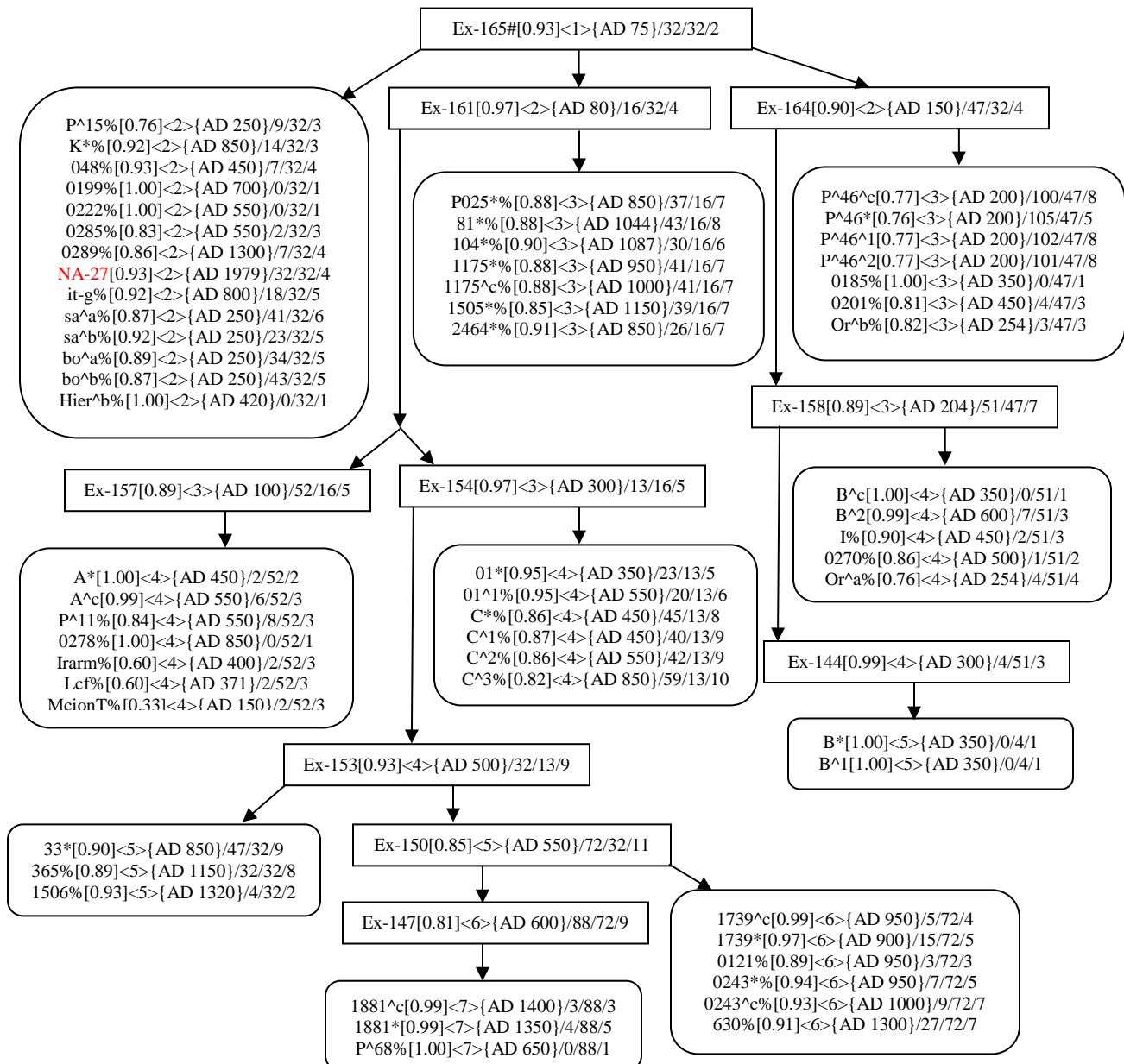
The Egyptian Text Tradition

Figure 3.4 displays the branch of the Egyptian text tradition. Exemplar Ex-165# was an early first-century recension (c. AD 75); it was the ancestral text from which the Egyptian witnesses were derived. It has an affinity with the autograph of 93%, differing from the autograph by 32 variants, and having 2 parents. It has 32 variants in its sibling gene, most of which are persistent throughout the witnesses in the branch. I refer to this branch as the Egyptian text tradition. The branch has a depth of seven generations and witnesses as recent as c. AD 1400 (MS 1881*^c). Its date is established by fourth-generation fragmentary Marcion (McionT c. AD 150). It is the text

⁶ Besides the autograph, the parents in this case and that of the other independent recensions are only secondary sources of same-generation mixture from virtual exemplars dating between the autograph and that of assumed first-generation.

from which papyri fragment P¹⁵ and MS K*, the Sahidic and Boharic translations, NA-27, as well as several others were most likely derived.

Figure 3.4
The Egyptian Text Tradition



It has two second-generation recensions: Ex-161 (c. AD 80), and Ex-164. Exemplar Ex-161 the text from which Codex Sinaiticus (01*) and its corrector (01¹) were derived, together with numerous other genealogically related witnesses. Exemplar Ex-164 is the text from which Codex Vaticanus (B*) and its correctors were derived; it is the most likely source for the text of papyrus P⁴⁵ and its correctors. These branches have a mutual affinity of only 87%, differing from one another in 63 places of variation; however, Vaticanus and Sinaiticus have a mutual affinity of only 70%, differing in 139 places of variation.

The Antiochan Text Tradition

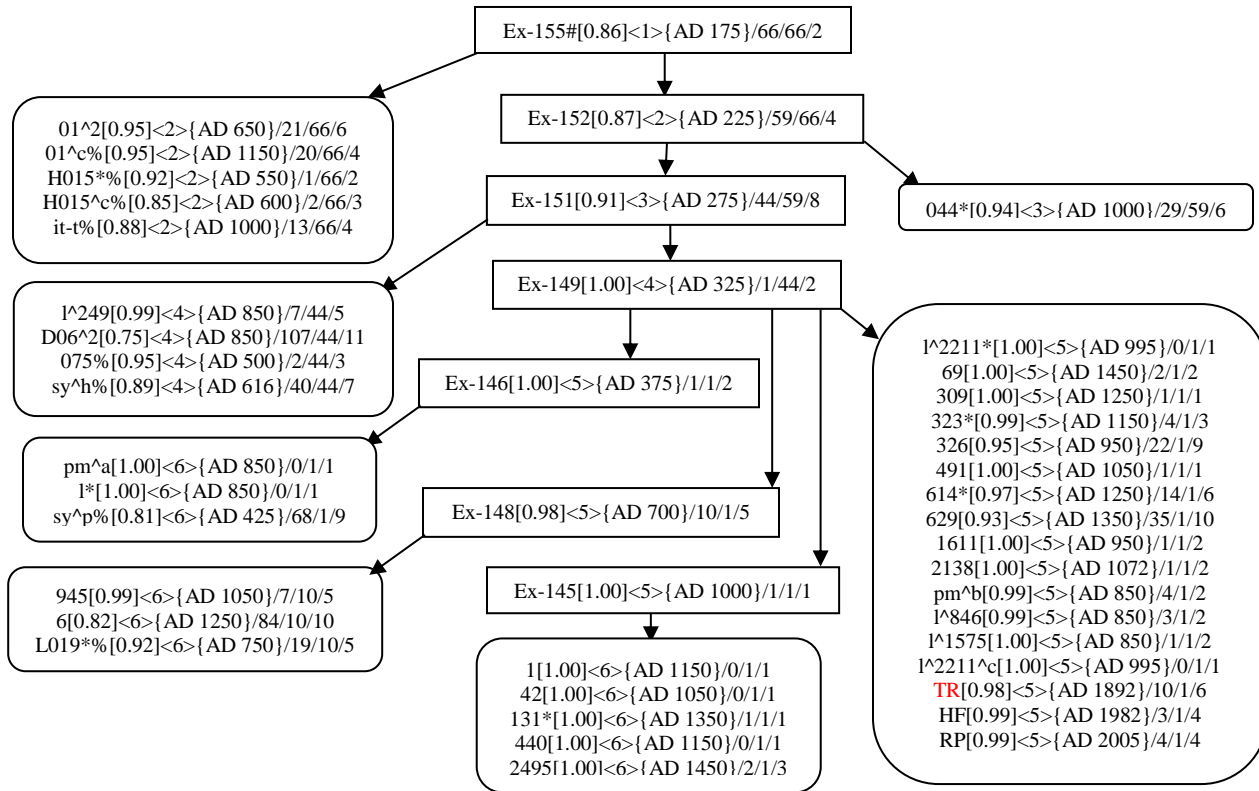
Figure 3.5 displays the Antiochan branch of the genealogical history of the text of 1 Corinthians. Exemplar Ex-155# was the second-century recension (c. AD 175) from which the Antiochan witnesses were derived, including the subsequent Byzantine recensions; it has an affinity with the autograph of 86%, differing from the autograph by 66 variants, and having 2 parents. It has 66 variants in its sibling gene, most of which are persistent throughout the witnesses in the branch. I refer to this branch as the Antiochan text tradition because Syriac translations sy^h and sy^p are found within its branches. It has six generations and is supported by the most recent witnesses as well as by numerous early witnesses. Its date is based on that of sixth-generation Syriac sy^p (c AD 425). Exemplar Ex-155# is the most likely source of the correctors of Codex Sinaiticus (01^c and 01²), of MS H015* and its corrector, and of Old Latin it-t%. It is the source of second generation exemplar Ex-152.

Second-generation exemplar Ex-152 (c. AD) is the most likely text from which MS 044* was derived and is the source of third-generation exemplar Ex-151.

Third-generation exemplars Ex-151 (c. AD 275) is the most likely text from which The Syriac translation sy^h was derived, as well as that of lectionary l²⁴⁹, and MSS D06² and H015^c. It is the source of fourth-generation exemplar Ex-149.

Fourth-generation exemplar Ex-149 (c. AD 325) is the text from which the majority of Byzantine witnesses were derived, including the TR, HF, and RP. It is also the source of fifth-generation exemplars Ex-145 (c. AD 1000), Ex-146 (c. AD 375), and Ex-148 (c. AD 700) which are the sources from which a number of Byzantine-like witnesses were derived.

Figure 3.5
The Antiochan Text Tradition

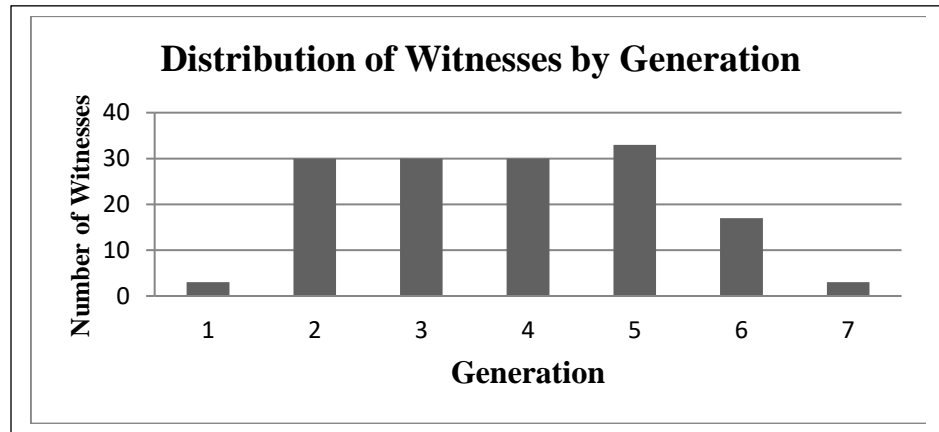


The Generations of Genealogical History

Program Lachmann-10 reconstructed the genealogical history of the text of 1 Corinthians in seven generations of descent from the autograph. Of course, the exact number of generations cannot be known because the genealogical history before the alleged first-generation major recensions was too fuzzy for the software to accurately reconstruct. The extant witnesses are distributed throughout every generation of the genealogical history. Table 3.1 and its associated graph display the distribution of the extant witnesses of 1 Corinthians by generation.

Table 3.1
Distribution of Extant Witnesses
By Generation

Generation	Num. of Witnesses
1	3
2	30
3	30
4	30
5	33
6	17
7	3
8	0
9	0



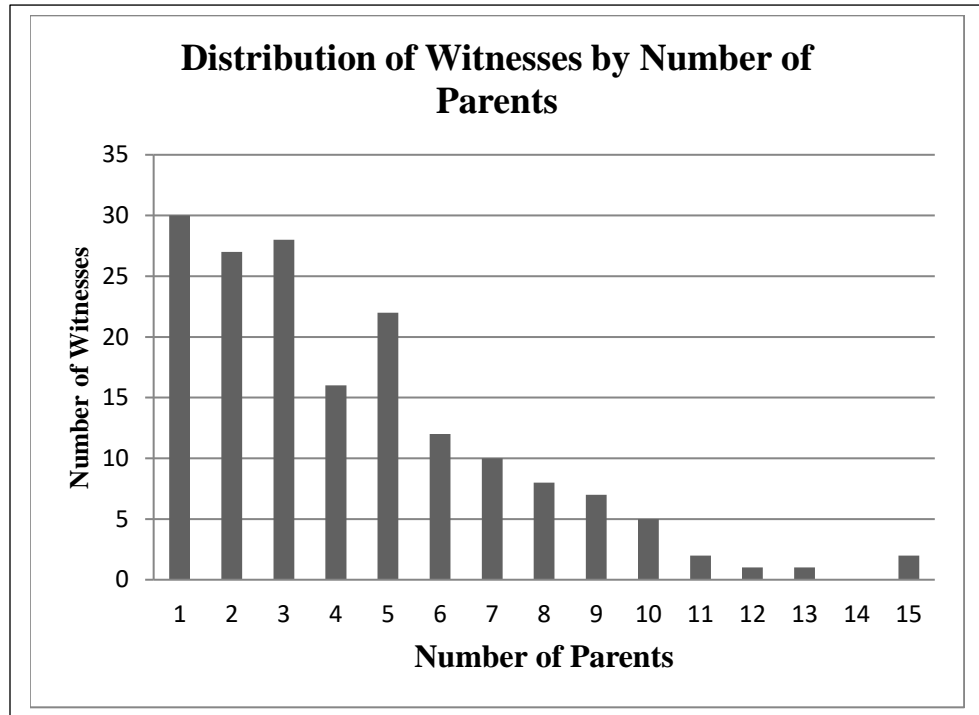
Mixture

The number of parents a witness had is a measure of the mixture of its text; the more parents, the more mixture. At any place of variation, the reading of a witness may differ from that of its primary parent exemplar⁷ for one of two reasons: (1) the reading is a newly initiated variant having no prior existence; or (2) the scribe selected the reading from one of the secondary exemplars he was consulting. Witnesses having only one parent experienced no mixture; every variant differing from that of the primary parent exemplar was newly initiated by the scribe either accidentally or intentionally. Table 3.2 displays the distribution of witnesses by number of parents. Those witnesses with the greatest mixture are those with the most diverse text; for example: 30 of the witnesses had only one parent, having no mixture at all; MSS G012* and G012^c had 15 parents; MS F* had 13 parents; and Old Latin it-ar had 12 parents. The sources of mixture are not displayed in the tree diagrams.

⁷ A primary parent exemplar is the exemplar from which a witness derives its genealogical descent; secondary parent exemplars are the sources from which a witness acquires mixture. A witness has only one primary parent, but it may have any number of secondary parent exemplars.

Table 3.2
Distribution of Witnesses
by Number of Parents

Num. of Parents	Num. of Witnesses
1	30
2	27
3	28
4	16
5	22
6	12
7	10
8	8
9	7
10	5
11	2
12	1
13	1
14	0
15	2



Primary Daughters

When an exemplar is the primary parent of one of its daughter manuscripts, then that daughter in turn is a primary descendant of the exemplar. Except for exemplars created to account for same-generation mixture (those marked with \$), an exemplar has at least two primary descendants, but it may have as many as needed for grouping multiple sibling daughters. The number of primary daughters of an exemplar is a measure of how well the software was able to find groups of sibling sisters. Table 3.3 displays the distribution of primary daughters by number of exemplars. For example, 19 exemplars have only 2 primary daughters, whereas exemplar Ex-149 has 17 primary daughters.

Critics of the genealogical theory protest that the genealogical trees it develops are almost exclusively binary, that is, nodes in the tree have only two branches—in other words, reconstructed exemplars have only two primary daughter descendants. Table 3.3 indicates that is true for 1 Corinthians, but it was not so for the Gospels. Nevertheless, the principle of delayed ambiguity has

rendered the criticism invalid. Exemplars with no primary descendants are those created to account for same-generation mixture; they rightly have no primary descendants.

Table 3.3 Distribution of Exemplars by Number of Primary Daughters		Table 3.4 Distribution of Exemplars by Number of Secondary Daughters			
Num. of Primary Daughters	Num. of Exemplars	Num. of Secondary Daughters	Num. of Exemplars	Num. of Secondary Daughters	Num. of Exemplars
2	19	0	5	14	1
3	3	1	1	17	1
4	0	2	2	23	1
5	1	3	1	29	3
17	1	4	1	33	1
Total	33	5	2	48	1
		6	1	51	1
		8	2	93	1
		10	3	Total	440

Secondary Daughters

When an exemplar is the source of mixture (a secondary parent) for one of its daughter descendants, then that daughter is a secondary descendant of the exemplar. An exemplar does not need to have any secondary descendants, but it may have as many as needed for resolving mixture within its associated branch. The number of secondary descendants of an exemplar is a measure of its value as a source of mixture, suggesting that scribes regarded the exemplar as having some measure of authority. Table 3.4 displays the distribution of secondary daughters by number of exemplars. For example, five exemplars have no secondary daughters, whereas exemplar Ex-165#, the Egyptian recension, had 29 secondary daughters; exemplar Ex-166#, the Western recension, had 48 secondary daughters; and exemplar Ex-155#, the Antiochan recension, had 51 secondary daughters. Obviously, the ancient scribes regarded these texts as having textual authority. The evidence indicates that there was considerable mixture among the witnesses to the text of 1 Corinthians.

Resolution of Mixture

The optimizing procedures of the software resolve all mixture in a genealogical tree, leaving every instance of a variant accounted for either by genealogical descent, by mixture, or by initiation. That is, the software locates the exemplar where every variant originated in the genealogical history of the witnesses.⁸ This feature is treated further in Chapter Four where the genealogical history of the variants is discussed.

Distribution of Affinity

Another measure of the success of the software in reconstructing the genealogical history of the text of 1 Corinthians is the distribution of the affinity of the witnesses to their primary parent exemplars. If this affinity is consistently high, the success may be regarded as high. Table 3.5 and its associated graph display the distribution of the affinity of the extant witnesses⁹ to their corresponding primary parent exemplar. Table 3.6 and its associated graph display the distribution of the affinity of the reconstructed exemplars to their corresponding primary parent exemplar, not including those functioning only to resolve same-generation mixture.¹⁰

The evidence from Table 3.5 indicates that all but five extant witness had a strong affinity (> 90%) with their primary parent exemplar, and all but two had an affinity greater than 85%. This demonstrates that considerable close grouping exists among the extant witnesses.

The evidence from Table 3.6 indicates that 14 (61%) of the 23 reconstructed exemplars¹¹ have a strong affinity (> 90%) with their primary parent exemplar, and another 9 (39%) had a moderate affinity (81-90%) with their parent. The presence of weak affinities is troubling because it questions the reality of any actual genealogical relationships. But the corresponding presence of sizeable sibling genes confirms that the given witness has a common ancestry with its alleged sisters, even though the relationship may be one of distant cousins; whatever the actual relationship may have been, within the collection of witnesses the relationship is the closest possible.

⁸ While this is true for the book of 1 Corinthians, for some of the other books the software may fail to uniquely identify the place of origin for a small percentage of variants.

⁹ Witnesses with less than 80% content are excluded because they do not contribute to the reconstruction of the genealogical history but are attached at the most appropriate place after the tree is complete.

¹⁰ Such exemplars do not contribute to the reconstruction of the tree diagram of the genealogical history of the witnesses, their affinity with their parent exemplar having no significance to the reconstruction process.

¹¹ The exemplars constructed just to account for same-generation mixture were not included in the study because they do not contribute to the construction of the genealogical tree.

Table 3.5
Distribution of Affinity of Extant
Witnesses with Primary Parent

% Affinity	No. of Witnesses
0-5	0
6-10	0
11-15	0
16-20	0
21-25	0
26-30	0
31-35	0
36-40	0
41-45	0
46-50	0
51-55	0
56-60	0
61-65	0
66-70	0
71-75	0
76-80	1
81-85	1
86-90	3
91-95	6
96-100	35
Total	46

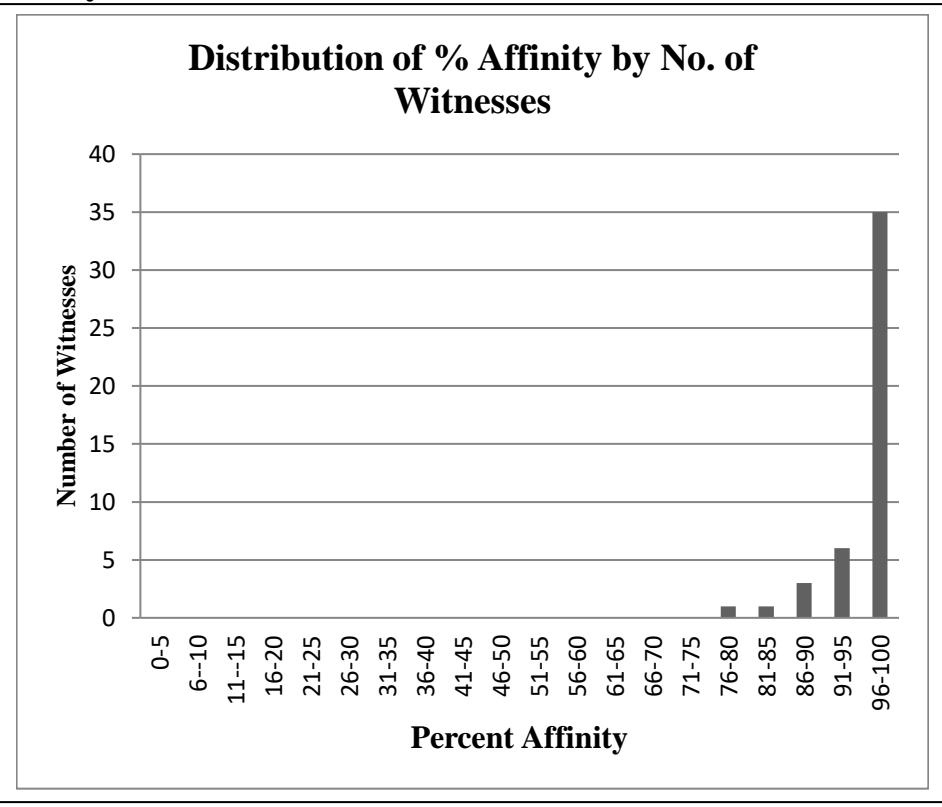
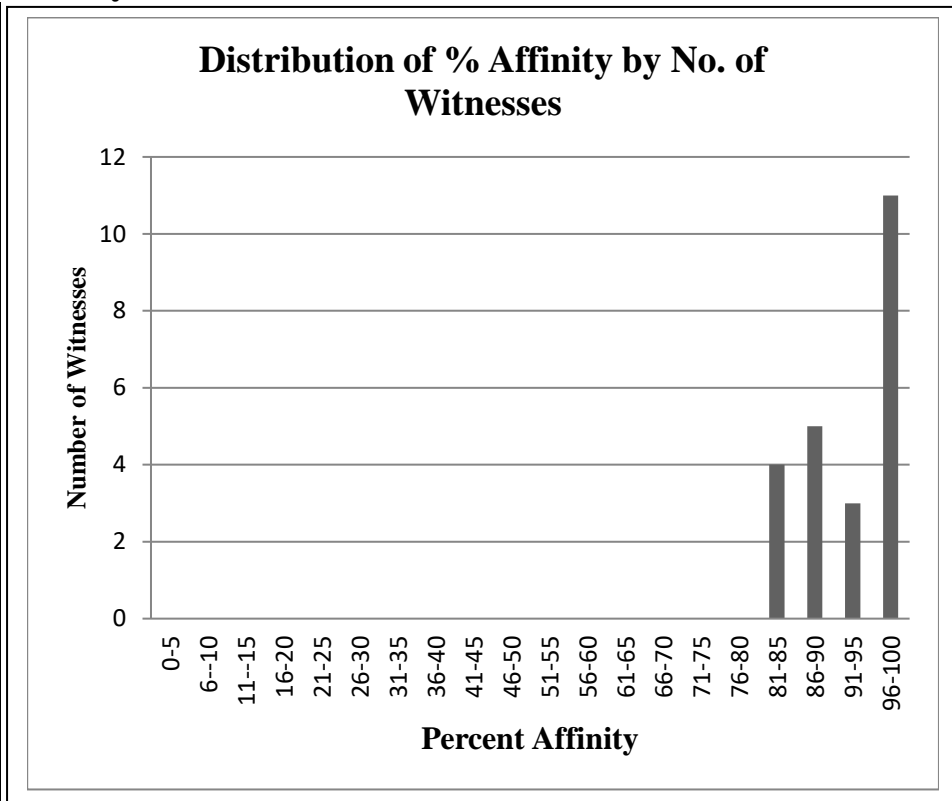


Table 3.6
Distribution of Affinity of
Exemplars with Primary Parent

% Affinity	No. of Witnesses
0-5	0
6-10	0
11-15	0
16-20	0
21-25	0
26-30	0
31-35	0
36-40	0
41-45	0
46-50	0
51-55	0
56-60	0
61-65	0
66-70	0
71-75	0
76-80	0
81-85	4
86-90	5
91-95	3
96-100	11
Total	23



Global Inheritance Persistence

Another measure of the success of the software in reconstructing the genealogical history of the text of 1 Corinthians is the persistence of the variants once they are initiated in the stemma of genealogical history. Ideally, once a variant is initiated, it will persist in all the descendants of the exemplar in which it was initiated. Table 3.7 presents the global statistics for inheritance persistence for the reconstructed stemma of 1 Corinthians. The information is the accumulated sum of every witness' hereditary persistence. For each witness, the total number of variants it could

inherit from all its ancestors was counted, also the number of those inheritable variants it actually inherited.¹²

Table 3.7
Global Inheritance Persistence

Global Total Number of Inheritable Variants: ¹³	9,820
Global Number of Actually Inherited Variants: ¹⁴	9,187
Global Number of Changed Variants: ¹⁵	117
Global Number of Corrected Variants: ¹⁶	516

This information indicates that for the 9,820 variants (the inheritable ones) initiated in all the ancestor exemplars in the stemma, 9,187 were persistent, being actually inherited by all their respective descendants (93.55%), and 117 were changed (1.19%) somewhere in intervening ancestors. Interestingly, 516 of them (5.25%) were changed and corrected back to the reading of the exemplar in which the variant originated. This information indicates the solution may be regarded as reasonably successful. The persistence of variant readings may be observed in the stemmas that trace the genealogical history of specific variants found in Chapter four.

Date of the Autograph

The date of the autograph and that of all other reconstructed exemplars are relative, not exact, being created by the date algorithm of the software which states that a parent exemplar is 50 years older than that of its oldest sibling daughter. When the dates diminish to below AD 150, the generation gap is reduced to 20 years, giving more room for activity in the first half of the second century and earlier. When the dates diminish below AD 100, the generation gap is reduced to five years. When the date diminishes below AD 50, the generation gap is reduced to one year. The date of the autograph (c. AD 65) is traced down through the Western recension to the fifth-

¹² The hereditary persistence of a witness is the ratio of the number of inheritable variants to the number of actually inherited ones. The number of inheritable variants of a witness is the sum of the number of new variants initiated in all of its ancestor exemplars.

¹³ An inheritable variant of a witness is one of its readings that was initiated in one of its ancestral exemplars.

¹⁴ An inherited variant of a witness is one of its inheritable readings that persisted unaltered from its point of initiation through its intervening ancestors to the given witness itself.

¹⁵ An inheritable variant of a witness is counted as changed if it was altered in an intervening ancestral exemplar, disrupting its hereditary persistence.

¹⁶ An inheritable variant of a witness is counted as corrected if after being altered it is restored again to its initial reading.

generation fragmentary church father Marcion (McionE% c. AD 150) through the following exemplars:

```

Autograph[0.00]<0>{AD 65}/0/0/0
Ex-166#[0.84]<1>{AD 70}/65/65/2
Ex-162[0.99]<2>{AD 75}/6/65/3
Ex-160[0.95]<3>{AD 80}/21/6/5
Ex-156[0.96]<4>{AD 100}/15/21/3
McionE%[0.50]<5>{AD 150}/2/15/2

```

The witness of McionE% is fragmentary, having only 4 places of variation, having 50% agreement with its parent exemplar. So the date of the autograph is not firm based on this witness. But, as alternatives, the date of the autograph could be AD 70 on the basis of fourth-generation church father Marcion (McionT% c. AD 150) in the Egyptian text tradition. In any case, the date AD 65 seems about right based on the commonly accepted date of the book.

Conclusions

The software does indeed reconstruct a genealogical history of the manuscripts of the Book of 1 Corinthians, and of the other books of the New Testament as well. However, the results are not what was anticipated, based on earlier experiments with smaller books, smaller databases, and less sophisticated programs. I anticipated that the commonly accepted text traditions would emerge as independent witnesses to the autograph. Those text traditions did emerge, but they turned out to be not exactly Western, Alexandrian, Caesarean, and Byzantine, but rather Western, Egyptian, and Antiochan, with Byzantine being the latest form of the Antiochan text tradition.

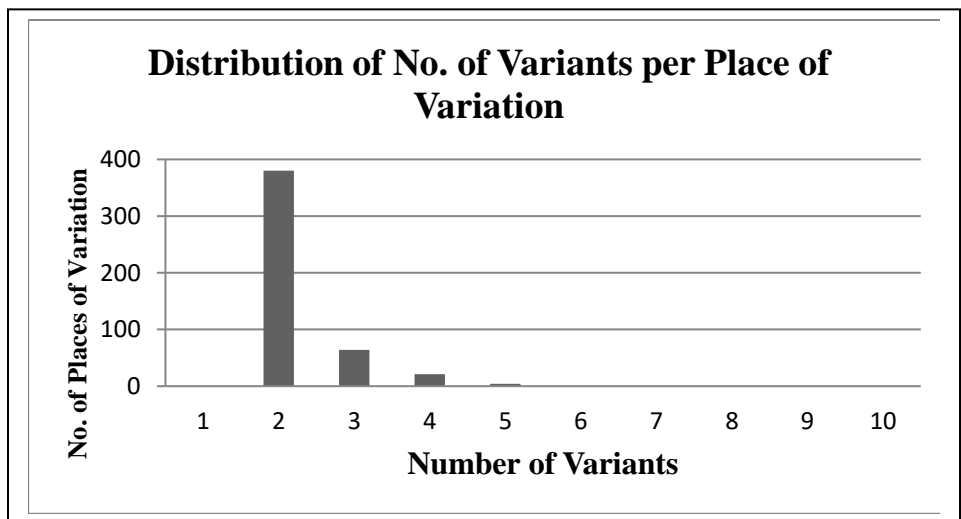
This concludes the discussion of the genealogical history of the witnesses to 1 Corinthians. While the reconstruction of the genealogical history of witnesses depends on the quantitative affinity (consensus), genetic affinity (sibling genes), and the date of the witnesses, the genealogical history of variant readings depends on the consensus and inheritance of variants. The history of the variant readings of the text of 1 Corinthians is discussed in Chapter Four.

CHAPTER 4 THE HISTORY OF THE TEXTUAL VARIANTS IN 1 CORINTHIANS

Chapter Three presents the genealogical history of the manuscripts¹ of the Greek text of the Book of 1 Corinthians. That history is necessary before the genealogical history of an individual variant may be intelligently discussed, because the history of a textual variant is totally dependent upon the history of the manuscripts in which it occurs. The NA-27 Greek New Testament records 469 places of textual variation in the book of 1 Corinthians and 1,056 variant readings. This averages out to a variability index of 2.25 variants per place of variation—a relatively low value. Table 4.1 and its associated graph display the distribution of the number of variants per place of variation. It indicates that at 380 places of variation there were only two variant readings, and at only four places there were five.

Table 4.1
Distribution of Number of
Variants per Place of
Variation

Number of variants	Number of Places of Variation
1	0
2	380
3	64
4	21
5	4
6	0
7	0
8	0
9	0
10	0
Total=	1,056



¹ Again, the term *manuscript* is used in its broader sense to include manuscripts, translations, quotations from church fathers, and reconstructed exemplars.

Initially the number 469 seems large when considering textual variations in a book of the Bible, but this number must be considered with respect to the total number of places where variation could occur. If the number of words in the Greek text of 1 Corinthians (c. 6,894) is regarded as the number of places where variation could occur, and each variation is regarded as the equivalent of one word, then the text of 1 Corinthians is 93% pure² before variations are even considered. Thus, variation occurs in only 7% of the text. In that small portion of the text 1,056 variants are recorded, but 469 of them are original readings, so only 600 are real variants. While this still seems like a large number, the genealogical software clearly identified all of them as non-original.

Types of Variants

Four basic types of textual variations occur in the text of 1 Corinthians: (1) omissions, (2) alterations, (3) transpositions, and (4) additions. Table 4.2 lists the distribution of these types of variants in the 497 places of variation in the text of the Book of 1 Corinthians, and Table 4.3 lists their distribution with respect to all variations.

Table 4.2
Distribution of Variants by Type

Variation type	Number of Variants
omit a word	71
omit a phrase	19
Alternate word	192
Alternate words	80
Transposed words	14
Added word or phrase	93
Total	469

Table 4.3
Distribution of All Variants by Type

Variation Type	Number of Variants
omit a word	143
omit a phrase	39
Alternate word	425
Alternate words	225
Transposed words	28
Added word or phrase	116
Total	1,056

² $((6,894 - 469) \div 6,894) \times 100 = 93.19$.

Determining Exemplar Readings

Whenever the genealogical software creates a new exemplar as the parent of a group of sibling sister witnesses, at each place of variation, the reading of the exemplar is decided on the basis of four ordered rules:

- (1) Majority consensus among all the immediate sibling children;
- (2) if no majority, then postpone the decision until a sibling emerges for the exemplar currently being reconstructed, that sibling will have the inherited reading;³
- (3) if, in the case of deciding the readings of the autograph, majority consensus fails, then accept the first variant (the NA-27 reading) if it is an option;
- (4) if the first variant is not an option, then by default arbitrarily select the smallest variant number that is an option;⁴
- (5) if witnesses are of different languages, then select the Greek reading.

Table 4.4 lists the number of times each of the above rules was used in the process of constructing the genealogical history of the text of 1 Corinthians.

Table 4.4
Frequency of Exemplar Reading Rules

(1) by greatest probability	9,840
(2) by deferred ambiguity	775
(4) by default to NA-27	134
(5) by arbitrary choice	7
(6) by language deference	61
Total	10,817

The evidence indicates that the vast majority of exemplar readings (90.97%) were determined by “consensus among independent witnesses,” and nearly all the remainder (7.16%) were determined by deferred ambiguity, while only 1.24% were deferred to the NA-27 reading, and 0.63% were determined by arbitrary choice or language preference.

³ I call this practice *deferred ambiguity*. Since sibling witnesses rarely have scribal errors at the same place of variation, where the reading of one sibling is ambiguous—that is, it is uncertain which of two readings is the inherited reading and which is a newly initiated error—the other siblings will have the inherited reading.

⁴ Next to the first variant—the NA-27 choice—the reading with the smaller variant number is usually supported by more witnesses than those with larger variant numbers. While this option is purely arbitrary, it turns out to be rarely significant for determining the readings of the autograph. For determining the readings of the autograph, the algorithm treats the exemplars of the last three branches to be constructed as siblings constituting the ancient independent witnesses.

Autographic Readings

The readings of the autographic text of 1 Corinthians were determined on the basis of consensus among the three most ancient independent witnesses. For the book of 1 Corinthians, the exemplars of the three most ancient independent recensions were used: (1) Exemplar Ex-165#, the Egyptian text tradition; (2) Exemplar Ex-166#, the Western text tradition; and (3) Exemplar Ex-155#, the Antiochan text tradition. Appendix D lists each of the 469 readings of the autograph together with its place of variation, the chapter and verse where it occurs, the reading of the text at that place, and the probability that the reading is original. Those readings lacking consensus were determined by default to the decision of the NA-27 editors' evaluation of internal evidence if that reading was among the available alternatives; otherwise, the next lowest variant number was selected by arbitrary choice. Table 4.5 lists the number of times each of the above rules was used in the process of determining the autographic readings of the text of 1 Corinthians. The evidence indicates that 82.1% of the readings were determined by "consensus among ancient independent witnesses."

Table 4.5
Frequency of Exemplar Reading Rules

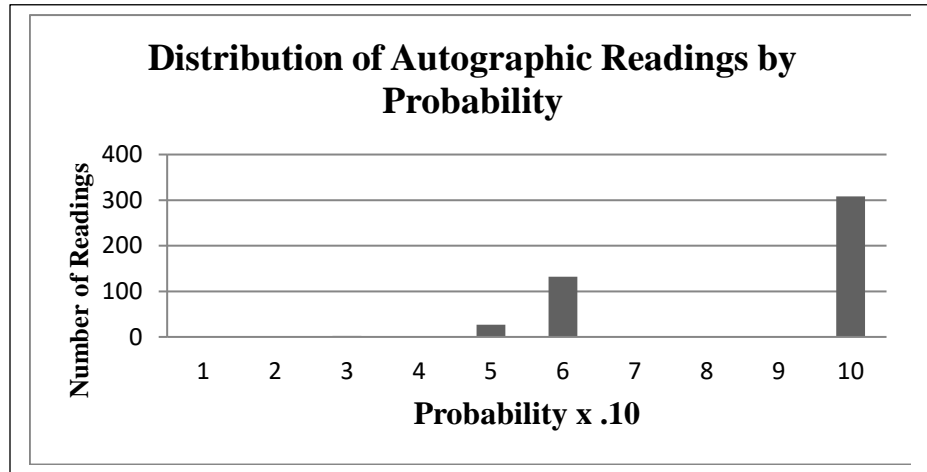
Number of Autographic variants decided by greatest probability	385	82.1%
Number of Autographic variants decided by Choice of NA27	23	4.9%
Number of Autographic variants decided by arbitrary choice	0	0%
Number of Autographic variants decided by Language deference	61	13.0%
Total	469	

Table 4.6 and its associated graph displays the distribution of the probability of the reconstructed autographic readings. Of the 469 readings, 308 had a probability of 1.0 (100%), 132 had a probability of 0.66 (66%), and 27 had a probability of 0.50 (50%), and 2 had a probability of 0.33 (33%).⁵

⁵ 5:5,1.1; 7:14,2.1.

Table 4.6
Distribution of Autographic Readings by Probability

Probability	Number of Readings
0.1	0
0.2	0
0.33	2
0.4	0
0.5	27
0.66	132
0.7	0
0.8	0
0.9	0
1.00	308



Agreement with NA-27

In the database used in this work, the first variant at any place of variation is the reading of the NA-27 text. The second and subsequent variants are the alternate readings listed in the database. Table 4.7 lists how often the various alternate readings were found to be original. The evidence indicates that the autographic text reconstructed by the genealogical software agrees with the text of NA-27 444 times or 91.47% of the time, and differs from the NA-27 text 38 times or 8.53% of the time. Appendix E lists the 40 places where the Lachmann-10 text differs from that of NA-27.

Table 4.7
Frequency of Variants

Variant 1	429
Variant 2	36
Variant 3	2
Variant 4	2
Variant 5	0
Variant 6	0
Total	469

The Origin of the Variants

The software identifies the place of origin of every variant in the genealogical tree, accounting for every instance of a variant as being the result of genealogical descent, mixture, or

initiation—that is, the software finds the one and only exemplar or extant witness in the genealogical history where each variant originated.⁶ Often, after the first initiation of a reading, it may have been introduced again in a later exemplar by means of mixture.

Exemplars Ex-168\$ through Ex-172\$ are children of the Autograph created by the software as sources for resolving same-generation mixture between the branches headed by the first-generation recensions, that is, for non-autographic readings that occur in more than one primary branch of the genealogical tree. These exemplars serve as virtual exemplars lost in the unrecoverable genealogical history between the Autograph and the assumed first-generation recensions. Of the 600 non-autographic variants, 467 are listed as originating in one of these virtual exemplars. Two possibilities exist for each of these variants: either it really originated only once in the earliest decades of unrecoverable history, or it originated independently in two or more major branches of the tree diagram of genealogical history; the latter case can be true for commonly occurring scribal errors, but not for the uncommon ones. Variants of the first kind are weakly distributed among the branches of the first-generation recensions and are of little genealogical significance individually; their distribution among the three most ancient recensions is weaker than that of their corresponding autographic reading.

Egyptian Recension

First generation exemplar Ex-165# was the ancestral forefather of the Egyptian text tradition. This recension differs from the autograph by 32 secondary variants⁷ among which it uniquely originated the following 21 variants peculiar to this entire text tradition:

16.2	1:14,1.2	̂—
41.1	2:10,2.1	⊥ ομτ
64.1	3:12,1.1	⊥ ομτ
67.1	3:13,2.1	ο αυτο

⁶ The place a variant reading was initially introduced in genealogical history is determined by locating the witness containing the variant reading where the reading differs from that of its parent exemplar and the reading is not accounted for by mixture. Mixture fails when the reading does not occur in any witness in preceding generations.

⁷ In this and other lists of variants herein, an exemplar enclosed in square brackets [] is the source of mixture for the associated variant. Variants are listed only by their reference: 1:14,1.2; 1:28,1.1[Ex-172\$]; 1:29,1.1[Ex-172\$]; 2:10,2.1; 3:12,1.1; 3:13,2.1; 4:2,2.2; 5:10,2.1[Ex-172\$]; 5:11,2.2[Ex-172\$]; 6:2,2.2[Ex-172\$]; 7:13,1.2[Ex-172\$]; 7:17,2.2; 8:7,1.1; 8:8,2.1; 8:11,1.1; 9:7,1.1; 9:15,1.1; 10:9,1.2[Ex-172\$]; 10:11,1.1[Ex-172\$]; 10:16,2.1; 10:19,2.2[Ex-172\$]; 10:33,1.1; 11:29,1.1; 11:29,2.1; 12:26,2.2; 13:8,1.1; 14:16,2.3[Ex-172\$]; 14:26,1.1; 14:39,3.1[Ex-172\$]; 15:7,1.2; 15:28,3.2; 16:23,1.1.

75.2	4:2,2.2	—τε
156.2	7:17,2.2	^α μεμερικεν
204.1	8:7,1.1	Γσυνηθεια
207.1	8:8,2.1	^β παραστησει
210.1	8:11,1.1	‘απολλυται γαρ
218.1	9:7,1.1	‘τον καρπον
227.1	9:15,1.1	‘ουδεις κενωσει
262.1	10:16,2.1	^γ εστιν του αιματος του Χριστου ^π
281.1	10:33,1.1	Γσυμφορον
309.1	11:29,1.1	^τ ομιτ
310.1	11:29,2.1	^π ομιτ
343.2	12:26,2.2	^ο ομιτ
352.1	13:8,1.1	Γπιπτει
387.1	14:26,1.1	^τ ομιτ
410.2	15:7,1.2	επειτα
424.2	15:28,3.2	^ο ομιτ
468.1	16:23,1.1	^τ ομιτ

Western Recension

First-generation exemplar Ex-166# was the Western recension, being the text from which most of the Latin translations were made. It differs from the autographic text by 65 secondary variants,⁸ among which it uniquely originated the following 52 variants peculiar to this entire text tradition:

77.2	4:6,1.2	ο
96.3	5:5,1.3	Ιησ. Χριστου
123.2	6:10,1.2	ουτε
125.3	6:11,1.3	ημων Ιησ. Χρ.
126.2	6:14,1.2	εξηγειρευ
135.2	7:1,1.2	μου
136.2	7:2,1.2	την —αν
152.2	7:14,1.2	τη πιστη

⁸ 4:6,1.2; 5:5,1.3; 6:10,1.2; 6:11,1.3; 6:14,1.2; 7:1,1.2; 7:2,1.2; 7:5,3.2[Ex-172\$]; 7:14,1.2; 7:14,2.3; 7:17,5.2; 7:22,1.2; 7:31,2.3; 7:32,1.2; 7:34,2.1[Ex-172\$]; 7:35,1.2[Ex-172\$]; 8:2,2.2[Ex-172\$]; 8:10,1.2; 9:7,2.2; 9:8,1.3; 9:16,2.1; 9:22,2.2; 10:13,1.2; 10:17,1.2; 10:19,1.2; 10:19,3.2; 10:20,2.2[Ex-172\$]; 10:27,1.2; 10:28,1.2; 11:2,1.2; 11:15,1.3[Ex-172\$]; 11:19,1.2; 11:22,1.2; 11:23,1.2; 11:24,2.2[Ex-172\$]; 12:2,3.3; 12:3,2.3; 12:9,2.2[Ex-172\$]; 12:10,2.2; 12:10,3.2; 12:10,4.2[Ex-172\$]; 12:11,1.2[Ex-172\$]; 12:21,1.2; 12:26,1.2; 12:31,1.2; 13:3,1.2; 13:4,1.2; 14:8,1.2; 14:11,1.2[Ex-172\$]; 14:15,3.2; 14:18,1.3; 14:21,2.2[Ex-172\$]; 14:34,4.2; 14:37,1.4; 15:5,1.3; 15:5,2.2; 15:10,2.2; 15:24,1.2; 15:27,1.2; 15:47,2.2; 15:51,3.4; 15:54,1.2[Ex-172\$]; 16:15,1.2; 16:17,2.2; 16:19,4.2.

153.3	7:14,2.3	αν. τω πιστω
159.2	7:17,5.2	διδασκω
163.2	7:22,1.2	και
170.3	7:31,2.3	χρ—
171.2	7:32,1.2	θεω
209.2	8:10,1.2	ο ομιτ
219.2	9:7,2.2	ο ομιτ
220.3	9:8,1.3	τ. λεγω
229.1	9:16,2.1	εὐαγγελισωμαι
240.2	9:22,2.2	παντας
257.2	10:13,1.2	ου καταλαβη
263.2	10:17,1.2	και του ενος ποτηριου
265.2	10:19,1.2	2 1
267.2	10:19,3.2	2 1
274.2	10:27,1.2	εις δειπνον
276.2	10:28,1.2	ειδωλοθ—
282.2	11:2,1.2	αδελφοι
292.2	11:19,1.2	□ ομιτ
296.2	11:22,1.2	επαινω
298.2	11:23,1.2	παρα κυρ.
316.3	12:2,3.3	ωσαν ηγ.
318.3	12:3,2.3	A. —σου
326.2	12:10,2.2	ο ομιτ
327.2	12:10,3.2	ο ομιτ
338.2	12:21,1.2	ο ομιτ
342.2	12:26,1.2	ει τι
345.2	12:31,1.2	κρειονα
348.2	13:3,1.2	α̂ καυθησομαι
349.2	13:4,1.2	□ ομιτ
365.2	14:8,1.2	2 1
374.2	14:15,3.2	ο ομιτ
377.3	14:18,1.3	στι
395.2	14:34,4.2	—σθαι
399.4	14:37,1.4	κυρ. εισιν εντολαι
407.3	15:5,1.3	και μετα ταυτα
408.2	15:5,2.2	ενδ—
412.2	15:10,2.2	ο ομιτ
419.2	15:24,1.2	παραδω

421.2	15:27,1.2	ο ομιτ
434.2	15:47,2.2	ο ουρανιος
440.4	15:51,3.4	αναστησομεθα, ου π. δε
458.2	16:15,1.2	και Φορτουνατου
461.2	16:17,2.2	αυτοι
465.2	16:19,4.2	—κιλλα

Antiochan Recension

Exemplar Ex-155# was the Antiochan recension, being the text from which the Syrian and Byzantine witnesses were derived. It differs from the autographic text by 66 secondary variants,⁹ among which it uniquely originated the following 32 variants peculiar to this entire text tradition:

2.2	1:1,2.2	2 1
56.3	3:4,1.3	ουχι σαρκικοι
63.2	3:10,2.2	τεθεικα
78.2	4:6,2.2	φρονειν
90.2	5:1,1.2	ονομαζεται
100.2	5:7,2.2	υπερ ημων
104.2	5:10,1.2	και
140.2	7:5,2.2	νηστεια και τη
153.2	7:14,2.2	ανδρι
169.3	7:31,1.3	τω —μω τουτω
177.2	7:35,2.2	—φερον
180.2	7:37,1.2	5 1-3
182.2	7:38,1.2	εκγ—
185.2	7:38,4.2	εκγ—
186.2	7:39,1.2	νομω
200.2	8:4,1.2	ετερος
226.2	9:13,2.2	προσεδ—
238.2	9:21,4.2	ο ομιτ

⁹ 1:1,2.2; 1:2,2.2[Ex-172\$]; 1:20,1.2[Ex-172\$]; 2:1,1.2[Ex-172\$]; 2:4,1.2[Ex-172\$]; 2:15,1.2[Ex-172\$]; 3:4,1.3; 3:5,1.2[Ex-172\$]; 3:5,2.2[Ex-172\$]; 3:10,2.2; 4:6,2.2; 4:9,1.2[Ex-172\$]; 4:13,1.2[Ex-172\$]; 5:1,1.2; 5:5,1.2[Ex-172\$]; 5:7,1.2[Ex-172\$]; 5:7,2.2; 5:10,1.2; 5:10,2.2; 7:7,1.2[Ex-172\$]; 7:7,2.2[Ex-172\$]; 7:7,3.2[Ex-172\$]; 7:13,4.2[Ex-172\$]; 7:14,2.2; 7:31,1.3; 7:35,2.2; 7:37,1.2; 7:38,1.2; 7:38,4.2; 7:39,1.2; 8:4,1.2; 9:10,1.2[Ex-172\$]; 9:12,1.2[Ex-172\$]; 9:13,2.2; 9:18,1.2[Ex-172\$]; 9:21,3.2[Ex-172\$]; 9:21,4.2; 9:22,1.2; 10:8,1.2; 10:13,4.2; 10:23,1.2; 10:23,2.2; 11:17,1.1[Ex-172\$]; 11:17,2.1[Ex-172\$]; 11:24,4.2; 11:26,1.2[Ex-172\$]; 11:31,1.2; 11:34,1.2[Ex-172\$]; 12:6,2.3; 12:9,1.2[Ex-172\$]; 12:9,3.2[Ex-172\$]; 12:10,5.2[Ex-172\$]; 12:12,1.2; 12:24,2.2[Ex-172\$]; 12:25,1.2; 13:2,1.2[Ex-172\$]; 13:11,1.2; 14:2,1.2[Ex-172\$]; 14:10,1.2; 14:13,1.2; 14:38,1.2[Ex-172\$]; 15:6,1.2[Ex-172\$]; 15:47,1.3[Ex-172\$]; 15:54,3.3[Ex-172\$]; 16:2,1.2; 16:2,2.2[Ex-172\$].

239.2	9:22,1.2	ως
248.2	10:8,1.2	εν
260.2	10:13,4.2	υμας
271.2	10:23,1.2	μοι
272.2	10:23,2.2	μοι
304.2	11:24,4.2	κλωμενον
311.2	11:31,1.2	γαρ
321.3	12:6,2.3	εστιν θ. ο εν.
332.2	12:12,1.2	του ενος
341.2	12:25,1.2	—ματα
356.2	13:11,1.2	δε
366.2	14:10,1.2	αυτων
370.2	14:13,1.2	διοπερ
447.2	16:2,1.2	—των

Tracing Variant History

For various reasons, it may be of interest to trace the history of the genealogical heritage of the alternate readings at particular places of variation. For each variant at the desired place, one may want to see where it originated in genealogical history and how it was subsequently distributed by genetic inheritance. Upon request, software program Lachmann-10 displays the genealogical history of the variants at any selected place of variation. It constructs the historical tree diagram (like the one in Appendix C) and displays on the monitor screen the generation and index number of the variant contained in each and every witness. The following section presents typical examples of possible studies of interest, using the tree diagram displayed in Figure 3.1 in chapter three. Colors are used to mark the genealogical descent of the alternate readings: green marks the genealogical descent of the autographic reading, and other colors mark that of the alternate readings there.

Variants of Textual Interest

The genealogical history of some variants is more interesting than that of others because of their significance for translation. For example, whole verses are missing in some witnesses (14:34-35), likewise, a significant clause is missing in 9:20. Also some places of variation have multiple options widely distributed among the witnesses (14:23); the genealogical history may help to decide which option is more likely original.

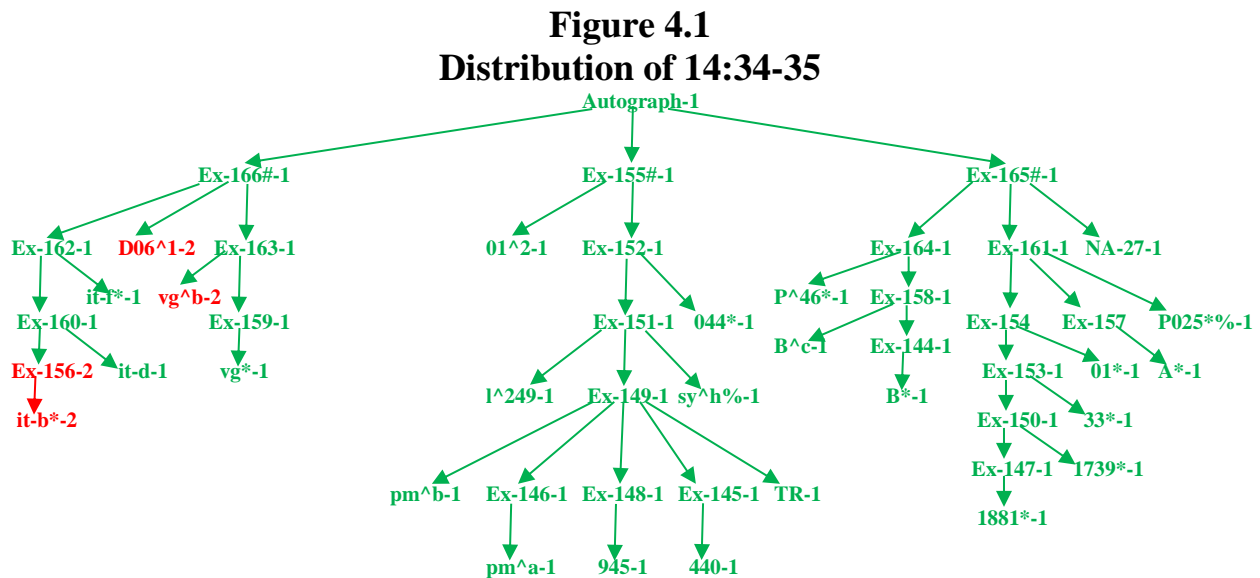
Omit 14:34-35?

The thirty-fourth and thirty-fifth verses of chapter fourteen are lacking in some witnesses but are found instead after verse forty: “Let your women keep silent in the churches, for they are not permitted to speak; but *they are* to be submissive, as the law also says. And if they want to learn something, let them ask their own husbands at home; for it is shameful for women to speak in church.”

There are two variants at this place:

- (1) Verses 34-35 occur here
- (2) Verses 34-35 occur after verse 40

Figure 4.1 displays the distribution of the variants throughout genealogical history.



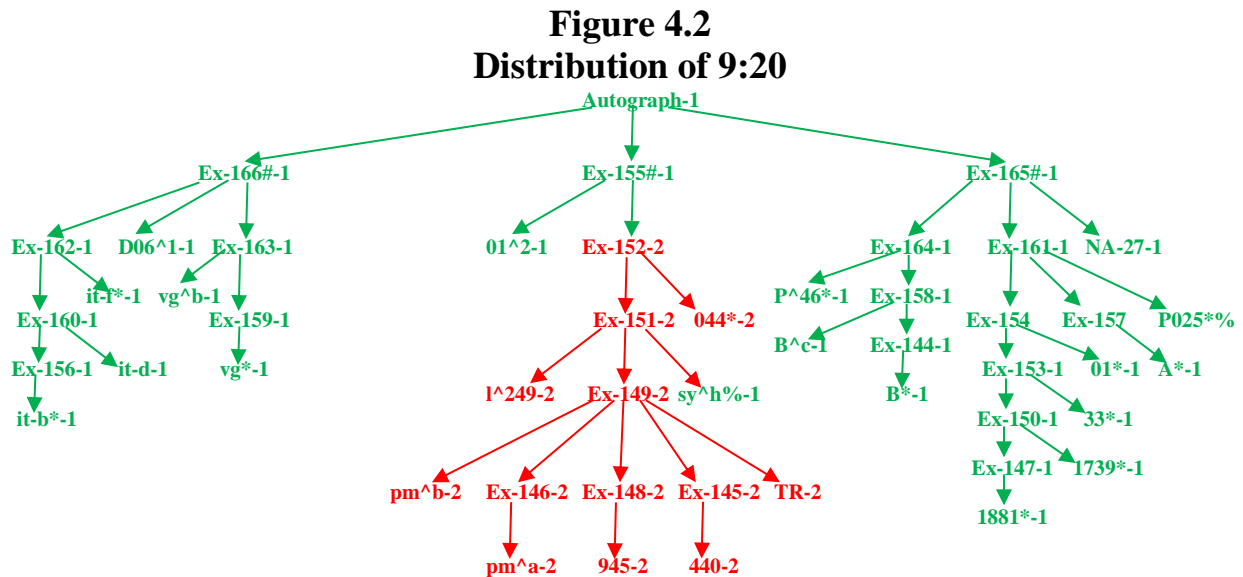
Variant 1 has the consensus of all three first-generation recensions: exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, and exemplar Ex-155#, the recension from which the Antiochan text tradition was derived, and exemplar Ex-166, the recension from which the Western text tradition was derived; it was selected as the autographic reading on this basis. It has the support of all the witnesses in the Egyptian and Antiochan text traditions. It has the support of the nearly all the witnesses in the Western text tradition except for D06^1 and vg^b and those in the sub-branch headed by fourth-generation exemplar Ex-156.

Witnesses that have variant 2 have verses 34-35 after verse 40. This variant is supported by randomly distributed witnesses D06^c, D06^1, D06^2, vg^b, and those in the sub-branch headed by fourth-generation exemplar Ex-156: it-ar, it-b*, D06*, F*,G012*, G012^c, and

Ambst%. The genealogical evidence overwhelmingly supports the location of these verses here at this place in the autograph.

Missing Clause in 9:20

In the twentieth verse of chapter nine, some witnesses lack the clause: “though I myself am not under the law.” There are two variant readings at this place; witnesses that have variant 1 contain the clause, and those that have variant 2 lack it. Figure 4.2 displays the genealogical distribution of these variants.



Variant 1 has the consensus of all three first-generation recensions: exemplar Ex-165#, the text of the Egyptian tradition, exemplar Ex-155#, the text of the Antiochan tradition, and exemplar Ex-166#, the text of the Western tradition; thus, it was selected as the autographic reading. In fact, this variant has the support of all the witnesses in the Egyptian text tradition and all the witnesses in the Western tradition, but only the first-generation witnesses of the Antiochan text tradition.

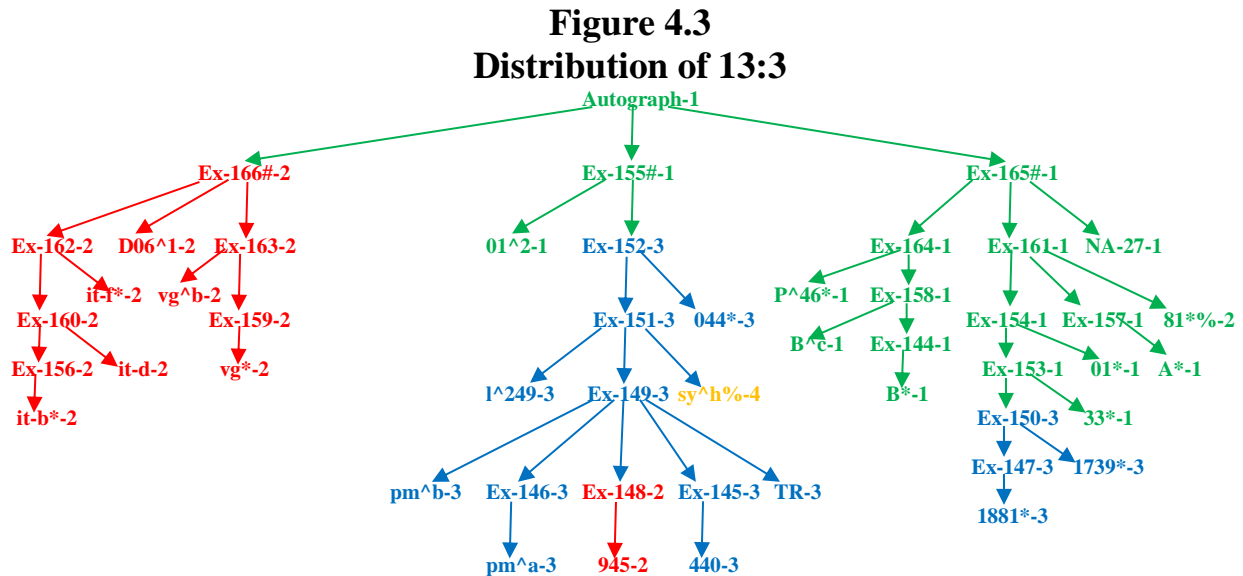
Variant 2 has the support of all the witnesses in the Antiochan text tradition headed by second-generation exemplar Ex-152 except for fourth-generation sy^h. The genealogical evidence supports this clause as being part of the original text. The scribe of exemplar Ex-152 most likely accidentally omitted the words.

Spelling Variation in 13:3

In the third verse of chapter thirteen, some witnesses read “though I give my body to be burned,” while others read “though I give my body in order to boast.” There are four variants here:

- (1) *καυχῆσμαι*—boast
- (2) *καυθήσομαι*—burn
- (3) *καυθήσωμαι*—burn
- (4) *καυθή*—burn

Figure 4.3 displays the genealogical distribution of these variants.



Variant 1 has the consensus of two of three first-generation recensions: exemplar Ex-165#, the text of the Egyptian tradition, and exemplar Ex-155#, the text of the Antiochan tradition; thus, it was selected as the autographic reading. This variant has the support of all the witnesses in the Egyptian text tradition except those in the sub-branch headed by fifth-generation exemplar Ex-150. It is also supported by the first-generation witnesses of the Antiochan text tradition.

Variant 2 has the support of all the witnesses in the Western text tradition headed by exemplar Ex-166#, and by the witnesses in the sub-branch of the Antiochan text tradition headed by fifth-generation exemplar Ex-148. It is also supported by randomly distributed witnesses C*% and its correctors, D06^2, 81*%, 104*%, 630%, 1175*% and its corrector, and 1881*.

Variant 3 is supported by all the witnesses in the Antiochan text tradition headed by second-generation exemplar Ex-152, except for fourth-generation sy^h, and by all the witnesses in the sub-branch of the Egyptian text tradition headed by fifth-generation exemplar Ex-150. Variant 4 is supported only by randomly distributed 1505*% and sy^h.

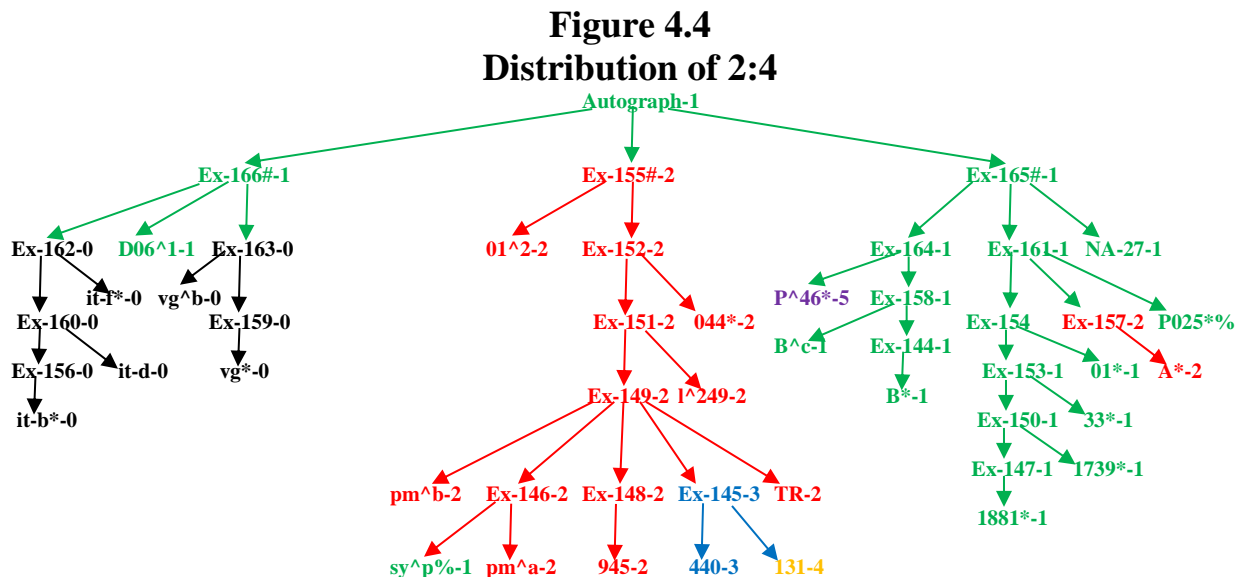
The genealogical evidence weakly supports variant 1 as the original reading. However, variants 2 and 3 both express the concept of *burning* and differ only in that one is in the subjunctive mood and the other in the indicative. Thus, the concept of burning has the greater distribution.

Multi-variants at 2:4

The fourth verse of chapter two is the site where the witnesses disagree about the order and content of the words in the phrase “the persuasive words of human wisdom.” There are five variations of the text here:

- (1) *πειθοῖς σοφίας λόγοις*—persuasive words of wisdom
- (2) *πειθοῖς ἀνθρωπίνης σοφίας λόγοις*—persuasive words of human wisdom
- (3) *πειθοῖ ἀνθρωπίνης σοφίας λόγοις*—persuasive words of human wisdom
- (4) *πειθοῖς ἀνθρωπίνης σοφίας και λόγοις*—persuasive human wisdom and words
- (5) *πειθοῖς σοφίας*—persuasive wisdom

Figure 4.4 displays the genealogical distribution of these variants.



Variant 1 has the consensus of two of the three first-generation recensions: exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, and exemplar Ex-166#, the recension from which the Western text tradition was derived. This reading was assigned to the autographic text on this basis. It has the support of nearly all the witnesses in the Egyptian text tradition except for P⁴⁶* and its correctors and those in the sub-branch headed by third-generation

exemplar Ex-157. It has the support of the witnesses in the first generation of the Western text tradition; the Latin witnesses have a virtual lacuna here.

Variant 2 is supported by all the witnesses in the Antiochan text tradition except sy^p% and those in the sub-branch headed by fifth-generation exemplar Ex-145. It is also supported by the witnesses in the sub-branch of the Egyptian text tradition headed by third-generation exemplar Ex-157. It is supported by randomly distributed witnesses C*% and its correctors, 630%, and vg^{cl}.

Variant 3 is supported by the witnesses in the sub-branch of the Antiochan text tradition headed by fifth-generation exemplar Ex-145, except for MS 131. Variant 4 occurs only in MS 131. Variant 5 occurs randomly distributed in P⁴⁶* and its correctors, F*, and G012* and its corrector. The genealogical evidence identifies variant 1 (“persuasive words of wisdom”) as the autographic reading. The scribe of exemplar Ex-155# evidently inserted the word ἀνθρωπίνης (human) for clarification.

Ambiguity at 5:5,1

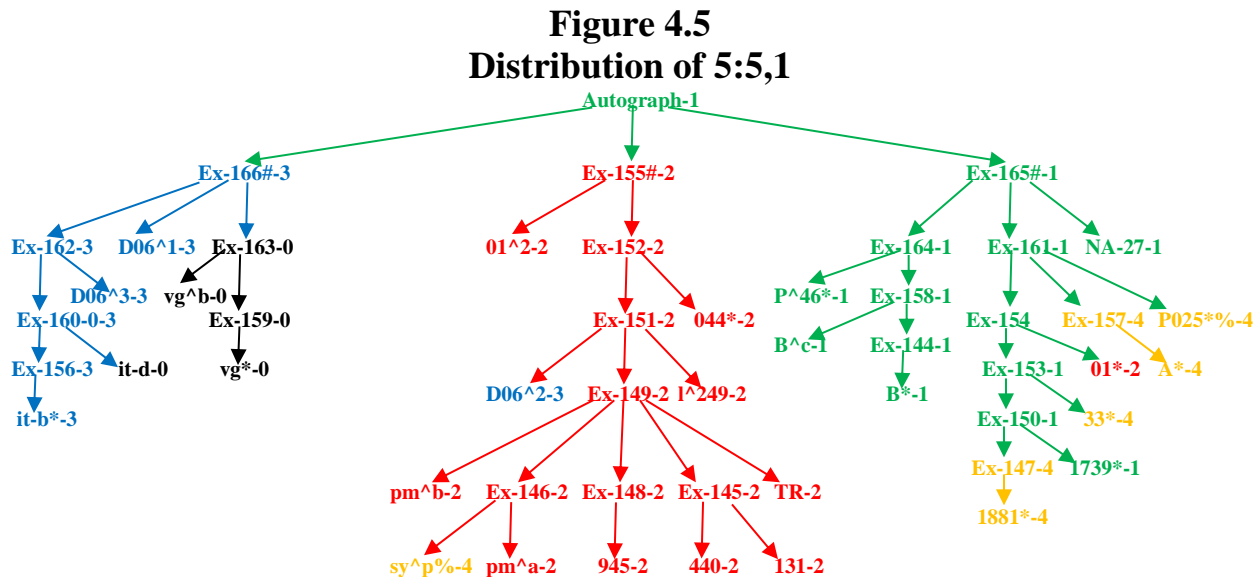
Of the 469 places of variation in the Book of 1 Corinthians, Lachmann-10 found 2 autographic readings with a probability of 0.33 (33%).¹⁰ One example occurs in 5:5,1. Here some witnesses read “in the day of the Lord,” some read “in the day of the Lord Jesus,” some read “in the day of the Lord Jesus Christ,” and some read “in the day of our Lord Jesus Christ.” There are four variant readings here:

- (1) --: omit
- (2) Ἰησοῦ: Jesus
- (3) Ἰησοῦ χριστοῦ: Jesus Christ
- (4) ἡμῶν Ἰησοῦ Χριστοῦ: our Jesus Christ

Figure 4.5 displays the distribution of these variants throughout genealogical history. In this case no consensus exists among the first-generation exemplars. Exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, supports variant 1; exemplar Ex-155#, the recension from which the Antiochan text tradition was derived, supports variant 2; and exemplar Ex-166#, the recension from which the Western text tradition was derived, supports variant 3.

¹⁰ 5:5,1; 7:4,2.

In the case of such ambiguity, Lachmann-10 assigns the reading of NA-27 (variant 1) to the autograph by default on the assumption that it has the best internal evidence in the judgment of the NA-27 editors.



Variant 1 has the support of most of the witnesses in the Egyptian text tradition, especially those in the early generations. Variant 2 has the support of nearly all the witnesses in the Antiochan text tradition, except for D06^2, and sy^p; in addition, it is supported, strangely enough, by Codex Vaticanus (01*) and its corrector 01^1. Variant 3 has the support of all the witnesses in the Western text tradition, except for those in the sub-branch headed by second-generation exemplar Ex-163; some of the Latin translations have a virtual lacuna there. In addition, it is supported by D06^2 in the Antiochan text tradition. Variant 4 is supported by various randomly distributed witnesses, mainly in the remote sub-branches of the Egyptian text tradition, including the Sahidic and Boharic translations. The genealogical evidence in this case does not unambiguously identify the autographic reading, but provides the best estimate based on internal evidence with a probability of 33 percent.

Variants of Theological Interest

Although most textual variations have little or no practical theological significance, a number are found in theological discussions. For example, Bart D. Ehrman argued that the earliest form of the Greek New Testament was less “orthodox” than the canonical form that emerged at the end of the “proto-orthodox” debates that culminated in the dominance of the “orthodox” parties in the fourth century. He wrote:

It was within this milieu of controversy that scribes sometimes changed their scriptural texts to make them *say* what they were already known to *mean*. In the technical parlance of textual criticism—which I retain for its significant ironies—these scribes “corrupted” their texts for theological reasons.¹¹

He is right about the ante-Nicene debates over the various heretical issues of the time and the emerging dominance of the orthodox parties, but his thesis that the doctrine of the apostles and first-century church, and the earliest form of the New Testament text were less “orthodox” is purely hypothetical. Of course, he provided what he regards as evidence. However, my own evaluation of the evidence he presented to establish his thesis indicates that the readings supported by the “consensus of ancient independent witnesses” are genuinely orthodox as normally interpreted, and that his “orthodox corruptions”—those intended to make orthodox doctrine more explicit—are found only in peripheral sources having little chance of being textually authoritative. The same may be said of any alleged “unorthodox” variants. So, I must conclude that what Ehrman really means is that the traditional canons of textual criticism are of no value for understanding the early text, that the “canonical text” of the New Testament is an “orthodox corruption,” and that the original text, if there ever was one original, is forever lost. The one thing he was sure of according to his “socio-historical” research is that the earliest text was not “orthodox” and the current form of the text (i.e., the NA-28 text) is a corruption of the original text, being altered by orthodox scribes for theological reasons.

Ehrman has a problem, however, because, by his own admission, he does not know what the original text was. So how can he know it was corrupted? Also, evidently he does not know, or at least he rejects, the fact that each existing witness has within its variants the history of its genealogical descent from the original text, and the fact that genealogical principles reconstruct the original text back to the first century, the time of the apostles. So, the reconstructed text is a first century event, not a fourth century one, and it is theologically orthodox, not a corruption. The following is some of the evidence he presented regarding doctrine in 1 Corinthians:

1 Corinthians 10:9

Regarding 1 Corinthians 10:9 Ehrman asserted:

In 1 Corinthians 10 Paul provides a Christian interpretation of the Pentateuchal account of Israel in the wilderness, claiming that the rock that Moses struck to provide life-giving water was none other than Christ, God's provision of life to the world. Furthermore, in line with a rabbinic midrash, Paul reasons that because Moses struck the rock on more than one occasion, it must have

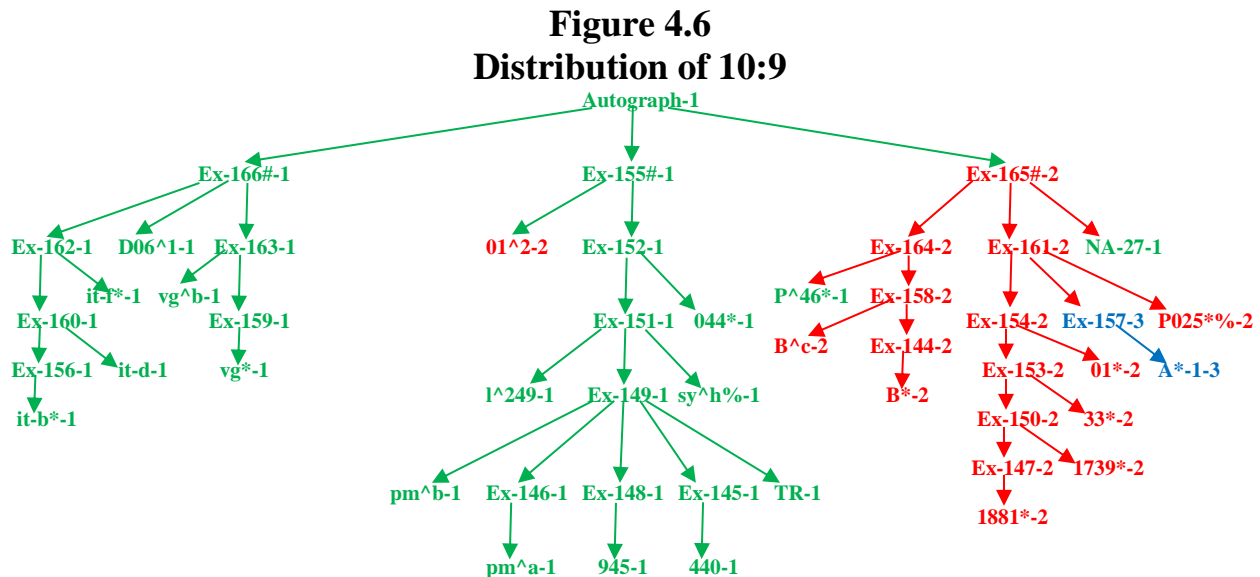
¹¹ Bart D. Ehrman, *The Orthodox Corruption of Scripture* (New York: Oxford University Press, 1993), xii; italics his.

followed the Israelites around during their journeys (1 Cor 10:5). He goes on to note that despite God's provision for the Israelites, most of them were not pleasing to him, leading to their destruction in the wilderness: "But God (δ Θεός) was not pleased with most of them, for they were laid low (*κατεστρώθησαν*) in the wilderness." Curiously enough, and significant for the present investigation, the words δ Θεός are omitted in several witnesses (MS 81 Clem Iren^{pl}). In these witnesses, the subject of the verb must be taken as δ Χριστός, drawn from the end of verse 4. Now it is "Christ" who was displeased with the Israelites, who entered into judgment with them. . . . It is precisely this proclivity to Christianize the Old Testament, a Christianization that indeed had its roots in the earliest stages of the religion but that intensified with the passing of time, that makes the more commonly attested reading of I Corinthians 10:9 so suspect. . . . Is the reading Χριστός, then, a corruption made expressly in order to counteract adoptionistic Christologies? . . . Even though Paul understands Christ to be the life-giving presence that sustained the Israelites in the wilderness, for him it is explicitly God who brought judgment against them when they failed to please him. The subject of verse 5 is unambiguous: "God" laid them low in the wilderness. There is no reason to think that Paul has shifted conceptualities in midstream here. And so, the Israelites were destroyed after putting *God*, not "Christ," to the test in 1 Corinthians 10:9. This means that the reading that is preserved widely among the Alexandrian witnesses otherwise understood to be superior (e.g., κ B C 33) is, in fact, original. The text was changed by proto-orthodox scribes who saw "Christ" as the one who exercised divine prerogatives even during the days of the Exodus.¹²

There are three variants here

- (1) Χριστός: Christ
- (2) Κύριον: Lord
- (3) Θεός: God

Figure 4.6 displays the historical distribution of variants at this place.



¹² Ehrman, pp. 89-90.

Variant 1 has the consensus of two of the three first-generation recensions: exemplar Ex-166#, the recension from which the Western text tradition was derived, and exemplar Ex-155#, the recension from which the Antiochan text tradition was derived. This reading was assigned to the autographic text on this basis. It has the support of all the witnesses in the Western text tradition. It has the support of all of the witnesses in the Antiochan text tradition, except for MSS 01^c and 01². It has the support of P⁴⁶ and the Sahidic and Boharic translations in the Egyptian text tradition. This was the choice of the editors of NA-27, in spite of nearly all the Egyptian witnesses being against it.

Variant 2 is supported by all the witnesses in the Egyptian text tradition except P⁴⁶, the Sahidic and Boharic translations, and those in the sub-branch headed by third-generation exemplar Ex-145. It is also supported by MSS 01^c, 01², and 326 in the Antiochan text tradition.

Variant 3 is supported by the witnesses in the sub-branch of the Egyptian text tradition headed by third-generation exemplar Ex-157, and by MS 81%. The genealogical evidence identifies variant 1 as the autographic reading. Ehrman is wrong in disagreeing with the genealogical evidence and the decision of the NA-27 editors; the text was changed for theological reasons that did not make the canonical text more orthodox.

1 Corinthians 11:24

Regarding 1 Corinthians 11:24 Ehrman stated:

We are now in a position to consider more briefly other variant readings that similarly stress the salvific significance of Jesus' broken body and shed blood.

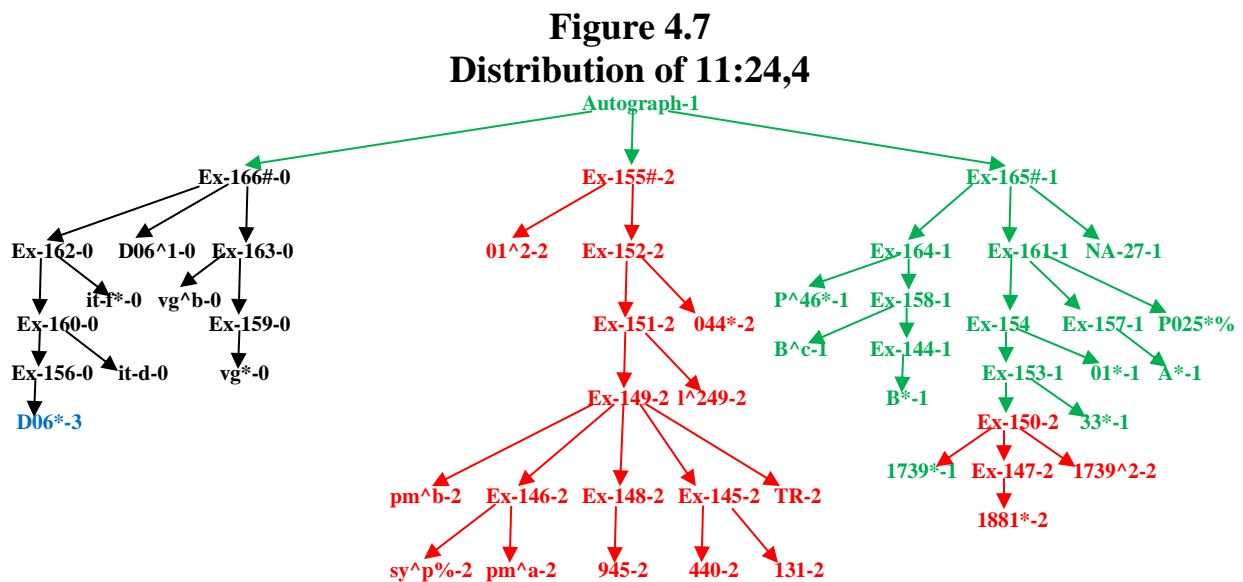
I begin with the modifications of a parallel account, the narrative of Jesus' Last Supper found in Paul's first letter to the Corinthians (11:23-24). In Paul's version of the story, Jesus breaks bread and says, "This is my body that is for you (Τοῦτό μου ἐστὶν τὸ σῶμα τὸ ὑπὲρ ὑμῶν) Do this in my remembrance." Just as some scribes felt that the saying of Luke 22:19a ended all too abruptly, others considered Jesus' first sentence here ("This is my body that is for you") to be lacking as well. Consequently, over the course of its transmission, the statement came to be amplified through the addition of a participle, normally taken from a parallel passage (διδόμενον) or from the immediate context (κλάμενον, cf. ἔκλασεν, v. 24a). The latter addition, however, is not merely an inadvertent completion of the thought. Not only does it occur in a number of scribal corrections, showing that it was made conscientiously rather than accidentally, it also provides a more vivid statement that Christ's (real) body was broken like the bread of the Eucharist, an emphasis particularly germane for the proto-orthodox insistence on the physical nature of Jesus' passion. Still more clear is the theological implication of the singular reading preserved in codex Bezae. Here Jesus is recorded as saying, "This is my body that is broken in pieces for you" (τὸ σῶμα τὸ ὑπὲρ ὑμῶν θρυπτόμενον). In this instance the participle has been drawn neither from the context nor from a parallel passage; the word θρυπτω occurs nowhere else in the manuscript tradition of the New Testament. Moreover, the

addition does not serve merely to round out Jesus' words concerning his coming fate; it instead provides a graphic emphasis on the reality of Jesus' passion.¹³

There are four variants at this place:

- (1) – : omit
- (2) κλώμενον: broken (as of bread)
- (3) θρυπτόμενον: broken (in pieces)
- (4) διδόμενον: given

Figure 4.7 displays the genealogical distribution of these variants:



In this case no consensus exists among the first-generation recensions. Exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, supports variant 1; exemplar Ex-155#, the recension from which the Antiochan text tradition was derived, supports variant 2; and exemplar Ex-166#, the recension from which the Western text tradition was derived, has virtual lacunae: the text editors were unable to determine the Greek text underlying the Latin in this case. In the case of ambiguity, Lachmann-10 assigns the reading of NA-27 (variant 1) to the autograph by default on the assumption that it has the best internal evidence in the opinion of the NA-27 editors.

Variant 1 has the support of most of the witnesses in the Egyptian text tradition, especially those in the early generations, except for the Sahidic and Boharic translations (not shown), and for

¹³ Ehrman, pp. 209-10.

the witnesses in the sub-branch headed by fifth-generation exemplar Ex-150. It also has the support of randomly distributed MSS 6 and 1739*, Latin vgst, and church father Cyprian (Cyp).

Variant 2 has the support of all the witnesses in the Antiochan text tradition; in addition, it is supported by C³, and by F*, G012*, and G012^c (descendants of exemplar Ex-156 in the Western text tradition).

Variant 3 has the support of only MS D06* in the Western text tradition. Variant 4 is supported by only the Sahidic and Boharic translations in the Egyptian text tradition (not shown). These two variants have no genealogical possibility of being original. The genealogical evidence in this case does not unambiguously identify the autographic reading, but provides the best estimate based on internal evidence with a probability of 50 percent. While variant 2 makes the text of variant 1 more explicit, it does not make it more orthodox.

1 Corinthians 15:15

Regarding Ehrman's alleged corruption in 15:15, he stated:

The widespread alteration of 1 Corinthians 15:15 does not fit the precise pattern we have observed so far, although it does achieve a similar end. In this passage Paul attacks those who do not subscribe to the future resurrection but maintain that believers already enjoy the full benefits of salvation here and now. Paul's response to these "enthusiasts" takes as its starting point the confession they share in common, that Christ "was raised on the third day according to the Scriptures." In verse 15 he argues that if there is in fact no resurrection of the dead, then contrary to their common confession, Christ himself has not been raised: "And also we have been found to be false witnesses of God, because we have testified of God that he raised Christ whom he did not raise, if indeed the dead are not raised." The last clause (εἴπερ ἄρα νεκροὶ οὐκ ἐγείρονται) appears otiose in the context, because its entire premise is none other than that of the entire argument. This makes it interesting that in one stream of tradition the clause is omitted (D a b r Vg^{mss} al).

Most critics have assumed that a scribe of the Western tradition deleted the clause because it did appear so extraneous. But this explanation is not altogether satisfying. Indeed, the clause *appears* unnecessary to the argument precisely because it *is* unnecessary. Here it may be important to observe a stylistic peculiarity: nowhere else in his writings does Paul use the phrase εἴπερ ἄρα, or even its counterpart, εἴ ἄρα. The style appears, then, to be non-Pauline, and the clause appears otiose. If we were to take it as a scribal addition to the passage, the question becomes, what might have generated the change? It is not at all difficult to understand why the shorter text is the *lectio ardua*: apart from the dictates of its literary context, verse 15 states that God did not raise Christ from the dead, a view perhaps amenable to the Gnostics (who accepted Paul as their apostolic authority), but not at all the view of their orthodox opponents. In light of the solid entrenchment of the shorter text in the Western tradition, the stylistic peculiarity of the clause in question, and the peculiar circumstance that while it appears superfluous in the context, the clause nevertheless guarantees that its context not be overlooked in making sense of it, it is perhaps best to understand the longer text as a corruption effected by a scribe seeking to prevent the possibility of misinterpreting the verse as a denial of Christ's resurrection.¹⁴

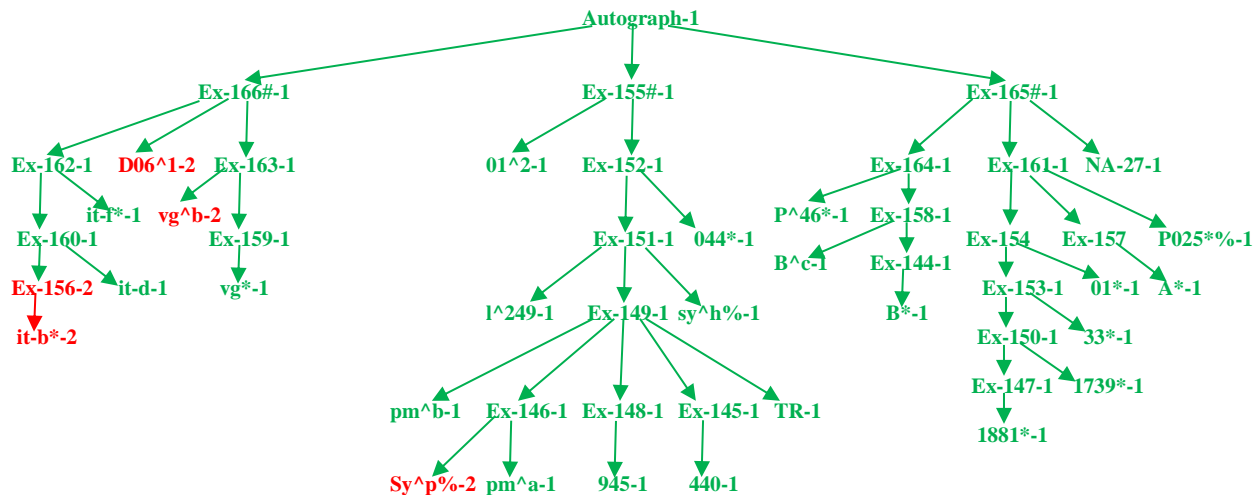
¹⁴ Ehrman, pp. 157-58.

There are two variants at this place:

- (1) εἴπερ ἄρα νεκροὶ οὐκ ἐγείρονται: if in fact the dead do not rise
- (2) —: omit

Figure 4.8 displays the genealogical distribution of these variants. Variant 1 has the consensus of all three first-generation recensions: exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, and exemplar Ex-155#, the recension from which the Antiochan text tradition was derived, and exemplar Ex-166, the recension from which the Western text tradition was derived; it was selected as the autographic reading on this basis. It has the support of all the witnesses in the Egyptian text tradition and in the Antiochan text traditions, except for sy-p. It has the support of the nearly all the witnesses in the Western text tradition except for the correctors of D06* (D06^c, D06^1, D06^2) and vg^b, it-r%, sy-p%, and Irenaeus (Irlat-a), and those in the sub-branch headed by fourth-generation exemplar Ex-156.

Figure 4.8
Distribution of 15:15



Variant 2 is supported by the witnesses in the sub-branch of the Western text tradition headed by fourth-generation exemplar Ex-156. It is also supported by the correctors of D06* (D06^c, D06^1, D06^2), by vg^b, it-r%, sy-p%, and by Irenaeus (Irlat-a). The genealogical evidence overwhelmingly supports variant 1 as the autographic reading. Ehrman may be right that the clause is unnecessary for Paul's argument, but the evidence indicates that Paul himself put it there to avoid possible misinterpretation.

1 Corinthians 15:47

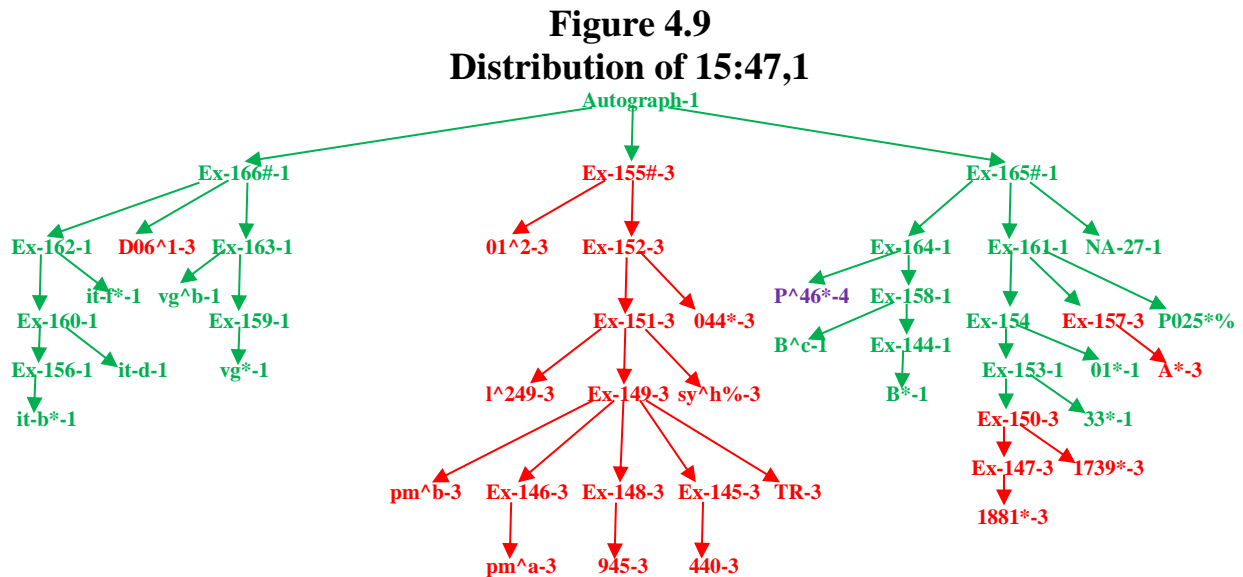
Regarding Ehrman's alleged corruption in 15:47, he stated:

A similar motivation may have led to the series of corruptions in 1 Corinthians 15:47, in which Paul elucidates his famous notion of Christ as a second Adam: “The first man was from the earth, of soil, the second man is from heaven” (ὁ δεύτερος ἄνθρωπος ὁ κύριος ἐξ οὐρανοῦ). Strikingly, the reference to Christ as the “second man” has been variously changed in the tradition: (1) “the second man, the Lord” (ὁ δεύτερος ἄνθρωπος ὁ κύριος, κ² A D¹ Ψ 075 Byz syr); (2) “the second, the Lord” (ὁ δεύτερος ὁ κύριος, 630 Marcion); (3) “the second man [is] spiritual” (ὁ δεύτερος ἄνθρωπος πνευματικός, Ɔ⁴⁶) (4) “the second, heavenly man” (ὁ δεύτερος ἄνθρωπος . . . ὁ οὐράνιος, F G OL). Each of these changes functions similarly by emphasizing the difference between Adam and Christ: Christ is not just another man, a second creation of God that surpasses the first. He is the “Lord-man,” the “spiritual-man,” the “heavenly-man.” Again, it is difficult to account for these changes apart from assuming an orthodox tendency to portray Jesus as far more than human.¹⁵

There are four variants here:

- (1) ἄνθρωπος: man
- (2) ὁ κύριος: the Lord
- (3) ἄνθρωπος ὁ κύριος: man [is] the Lord
- (4) ἄνθρωπος πνευματικός: spiritual man

Figure 4.9 displays the genealogical distribution of these variants:



Variant 1 has the consensus of two of the three first-generation recensions: exemplar Ex-165#, the recension from which the Egyptian text tradition was derived, and exemplar Ex-166#, the recension from which the Western text tradition was derived. This reading was assigned to the autographic text on this basis. It has the support of nearly all the witnesses in the Egyptian text tradition except for P⁴⁶* and its correctors, those in the sub-branch headed by third-generation

¹⁵ Ehrman, pp. 94-95.

exemplar Ex-157, and those in the sub-branch headed by fifth-generation exemplar Ex-150. It also has the support of some randomly distributed witnesses: MSS 0243*, 0243^c, 6, and 1739*.

Variant 2 is supported only by 630% and Marcion (McionA%). Variant 3 is supported by all the witnesses in the Antiochan text tradition and also by D06¹ in the Western text tradition, and by all the witnesses in the sub-branch of the Egyptian text tradition headed by third-generation exemplar Ex-157, and by most of the witnesses in the sub-branch of the Egyptian text tradition headed by fifth-generation exemplar Ex-150. Variant 4 is supported only by P⁴⁶* and its correctors. Variants 2 and 4 have no genealogical possibility of being original. The genealogical evidence indicates that the first reading is original reading with a certainty of 66%. This is an instance where Ehrman is right, there likely was a strengthening of orthodoxy in the first Antiochan recension, but the variant did not affect the canonical text nor make it more orthodox, but rather, more explicit.

Other Variants of Theological Interest

The following is a discussion of some other passages in 1 Corinthians where doctrinal issues have been raised by advocates of the Byzantine text tradition.

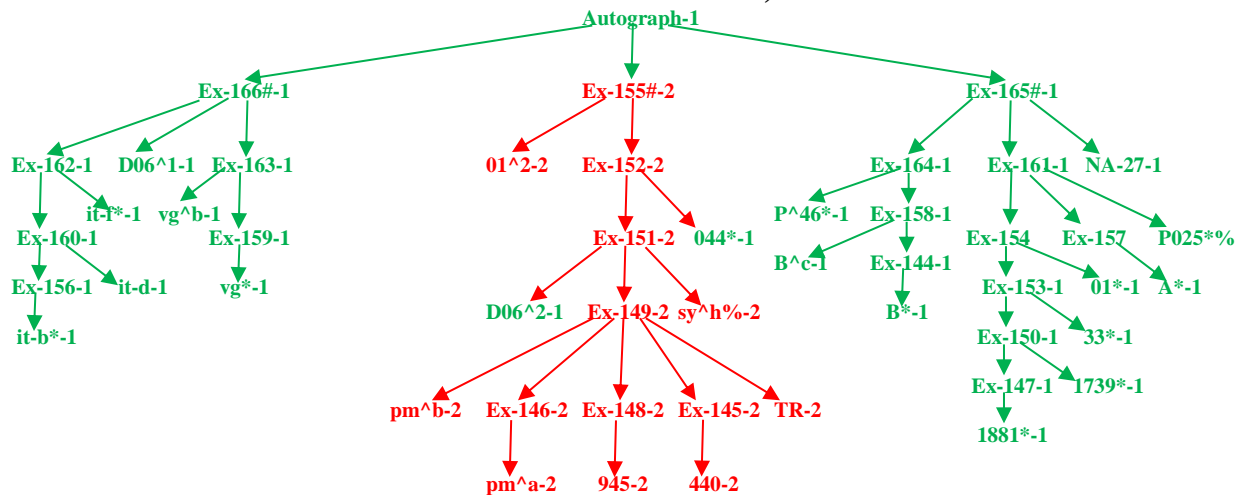
1 Corinthians 7:5

“Do not deprive one another except with consent for a time, that you may give yourselves to fasting and prayer; and come together again so that Satan does not tempt you because of your lack of self-control.” In this passage some witnesses contain the word *fasting* and some do not. Advocates of the Byzantine text regard the absence of this sentence to be detrimental to the doctrine of worship. There are two variant readings here:

- (1) omit
- (2) fasting

Figure 4.10 displays the distribution of these variants throughout genealogical history. Variant 1 has the consensus of two of the three of the first-generation recensions: exemplar Ex-165#, the recension from which the Egyptian text was derived, and exemplar Ex-166#, the recension from which the Western text tradition was derived; so it was assigned to the autograph. This variant is supported by nearly all the witnesses in the Western text tradition, and by all the witnesses in the Egyptian and Antiochan text traditions; it was also supported by MSS D06², 044*, and 6 in the Antiochan text tradition.

Figure 4.10
Distribution of 7:5,2



Variant 2 is supported by all of the witnesses in the Antiochan text tradition headed, except MSS D06^2, 044* and 6. The genealogical evidence indicates that the word *fasting* was not original but originated by the scribe of the first recension of the Antiochan text tradition.

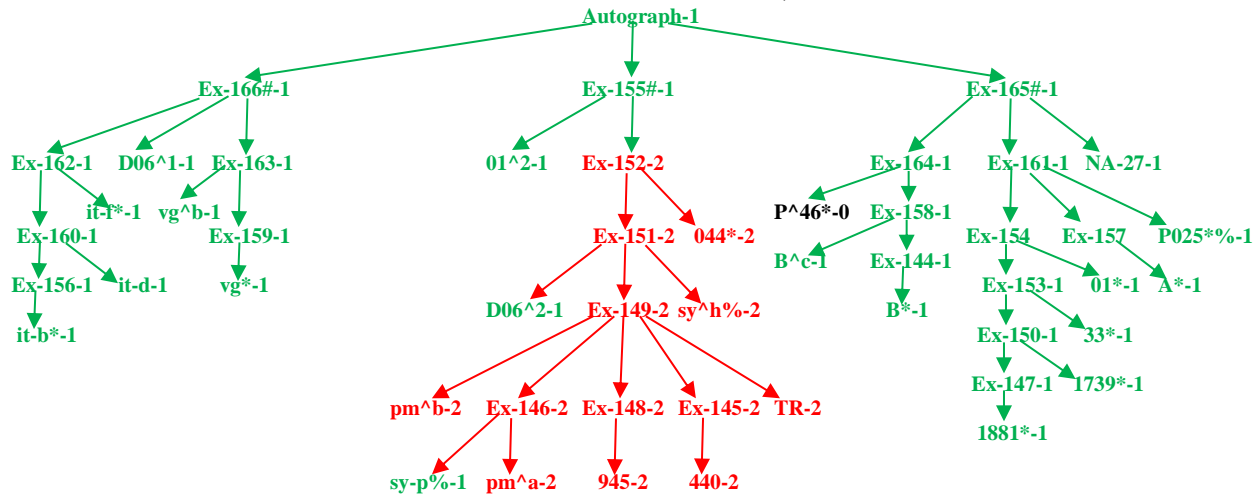
1 Corinthians 10:28

“But if anyone says to you, ‘This was offered to idols,’ do not eat it for the sake of the one who told you, and for conscience’ sake; for ‘the earth *is* the LORD’S, and all its fullness.’” In this passage, some witnesses contain the clause from the Old Testament: “for ‘the earth *is* the LORD’S, and all its fullness,” and some do not. Advocates of the Byzantine text regard the missing clause to be detrimental to the doctrine of the Holy Scripture. There are two variants here:

- (1) omit the clause
- (2) include the clause

Figure 4.11 displays the distribution of these variants throughout genealogical history. Variant 1 has the consensus of all three first-generation recensions: exemplar Ex-165#, the text of the Egyptian tradition, exemplar Ex-155#, the text of the Antiochan tradition, and exemplar Ex-166#, the text of the Western tradition; thus, it was selected as the autographic reading. In fact, this variant has the support of all the witnesses in the Egyptian text tradition and all the witnesses in the Western tradition, but only the first-generation witnesses of the Antiochan text tradition, plus the witness of D0^2, and sy-p%.

Figure 4.11
Distribution of 10:28,3

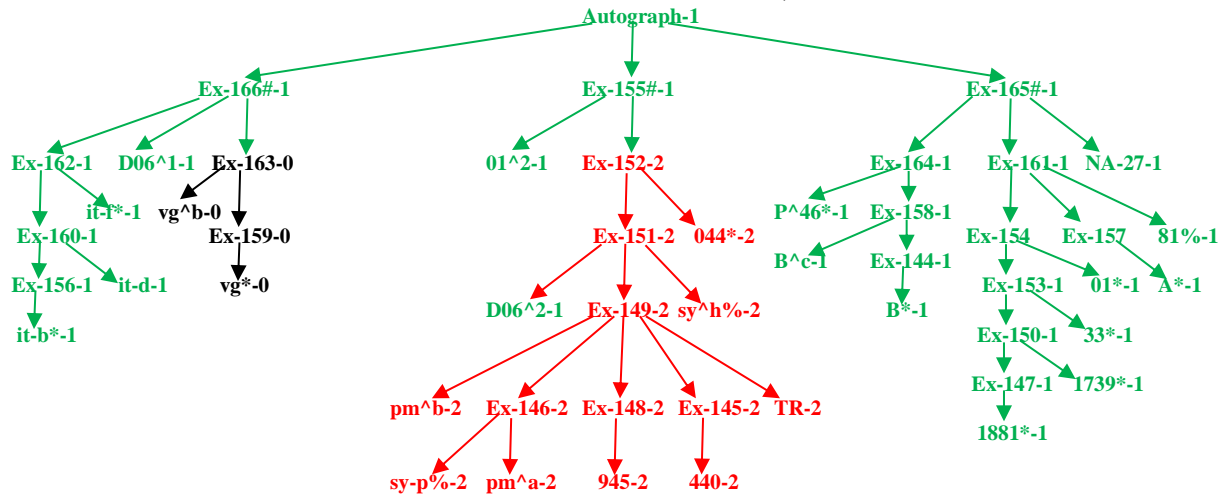


Variant 2 has the support of all the witnesses in the Antiochan text tradition headed by second-generation exemplar Ex-152 except for fourth-generation D06^2 and sixth-generation sy-p%. The genealogical evidence supports this clause as not part of the original text. The scribe of exemplar Ex-152 most likely accidentally repeated the words of verse 26.

1 Corinthians 11:24

“And when He had given thanks, He broke *it* and said, ‘Take, eat; this is My body which is broken for you; do this in remembrance of Me.’” Some witnesses lack the words “Take, eat.” Advocates of the Byzantine text regard the omission as detrimental to the doctrine of the Lord’s Supper. There are two variants here; variant 1 lacks the words and variant 2 has them. Figure 4.12 displays the distribution of these variants throughout genealogical history. Variant 1 has the consensus of all three first-generation recensions: exemplar Ex-165#, the text of the Egyptian tradition, exemplar Ex-155#, the text of the Antiochan tradition, and exemplar Ex-166#, the text of the Western tradition; thus, it was selected as the autographic reading. In fact, this variant has the support of all the witnesses in the Egyptian text tradition and all the witnesses in the Western tradition, but only the first-generation witnesses of the Antiochan text tradition, plus the witness of D0^2, MS 6, and vg-st.

Figure 4.12
Distribution of 11:24,1



Variant 2 has the support of all the witnesses in the Antiochan text tradition headed by second-generation exemplar Ex-152 except for fourth-generation D06^2 and sixth-generation MS 6. The genealogical evidence supports this clause as not part of the original text. The scribe of exemplar Ex-152 most likely harmonized this passage Matthew 26:26 and Mark 14:22.

Tracing Any Variant

The above studies trace the history of variants of particular interest using the computer program Lachmann-10. But one may trace the history of any other desired variant using the information in Appendices D, F, and H. For example, to trace the history of the five variants at variation unit 399 at 14:37, take the following steps:

Step 1: Using Appendices D and F, find the variant readings.

Appendix D says

399.1	14:37,1.1	κύριου ἐστὶν ἐντολὴ	0.67
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That is, the autographic reading is the first variant (399.1), κυρίου ἐστὶν ἐντολὴ “is a commandment of the Lord,” and that its probability is 0.67 (67%).

Appendix F says

399.2	14:37,1.2	Ex-169\$;	1 3 2
399.3	14:37,1.3	Ex-156;	1 2
399.4	14:37,1.4	Ex-166#;	κυρ. εἰσιν ἐντολαί
399.5	14:37,1.5	Ex-170\$;	θεου ἐστ. —λη

Variant 2 is κυριου ἐντολη ἐστιν “is a commandment of the Lord,” initiated in exemplar Ex-169\$.

Variant 3 is κυριου ἐστιν “is of the Lord,” initiated in exemplar Ex-170\$.

Variant 4 is κυριου εισιν εντολαι “are commandments of the Lord,” initiated in exemplar Ex-166#.

Variant 5 is θεου ἐστιν ἐντολη “is a commandment of God,” initiated in Ex-170\$.

Step 2: Using Appendix H, find where these variants were initiated in the history of the text.

Appendix H says

399.1	14:37,1.1	[0243*%]<6>; [0243^c%]<6>; [1739*]<6>; [vg^b]<3>; Autograph;
399.2	14:37,1.2	[01*]<4>; [81*%]<3>; Ex-169\$<1>;
399.3	14:37,1.3	Ex-156<4>;
399.4	14:37,1.4	[sa^a%]<2>; [Ex-152]<2>; Ex-166#<1>;
399.5	14:37,1.5	[Ex-150]<5>; [Ex-157]<3>; Ex-170\$<1>;

That is, the first variant was initiated in the autograph, and by mixture it was subsequently introduced in [0243*%]<6>; [0243^c%]<6>; [1739*]<6>; [vg^b]<3>. The second variant was initiated in virtual exemplar Ex-169\$<1>, and by mixture in [01*]<4>; [81*%]<3>. The third variant was initiated only in exemplar Ex-156. The fourth variant was initiated in Ex-166# and by mixture in [sa^a%]<2>; [Ex-152]<2>. Variant 5 was initiated in Ex-170\$, and by mixture in [Ex-150]<5>; [Ex-157]<3>.

Step 3: copy figure 3.1 from chapter 3 on a separate sheet of paper, as on the next page, and write the variant numbers at the places on diagram where each variant was initiated; use green for the autographic reading (1), red for the first variant (2), blue for the second variant (3), purple for the third variant (4), and orange for fifth variant (5), as illustrated in figure 4.13.

Step 4: Using its designated color, let each initiated variant extend by inheritance to all its descendants down to its extant terminal witnesses, or until changed by a new initiation, as shown in figure 4.14. Witnesses marked with % are fragmentary; their readings are often lacking; they may be ignored in this step.

Figure 4.14 indicates that Variant 1 has the consensus of two of the first-generation recensions: exemplar Ex-155# the head of the Antiochan text tradition, and exemplar Ex-165# the head of the Egyptian text tradition; so, it was selected as the autographic reading.

Figure 4.13
Illustrating Marking Places of Initiation
At 1 Corinthians 14:37,1

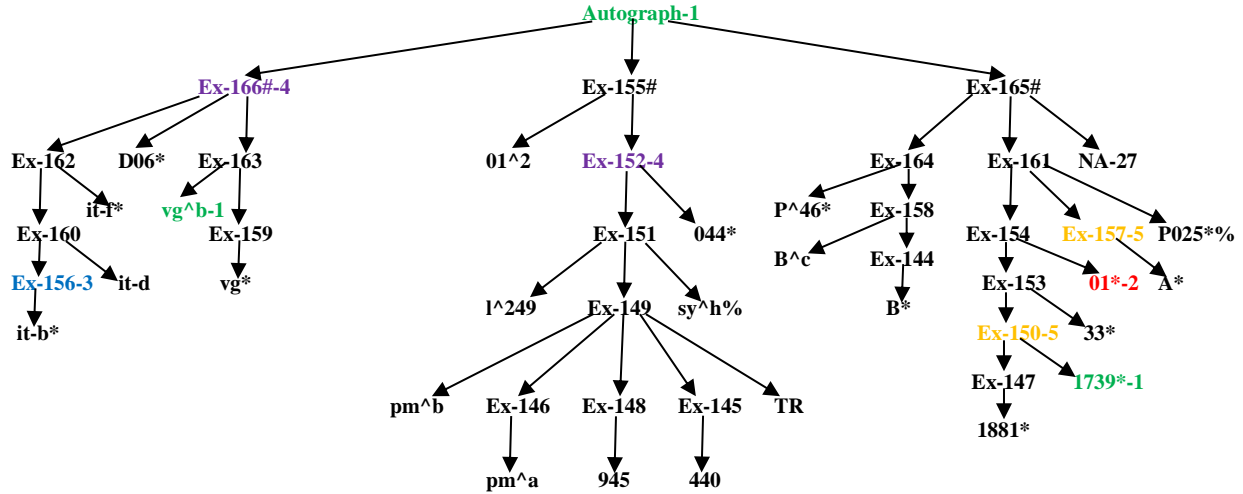
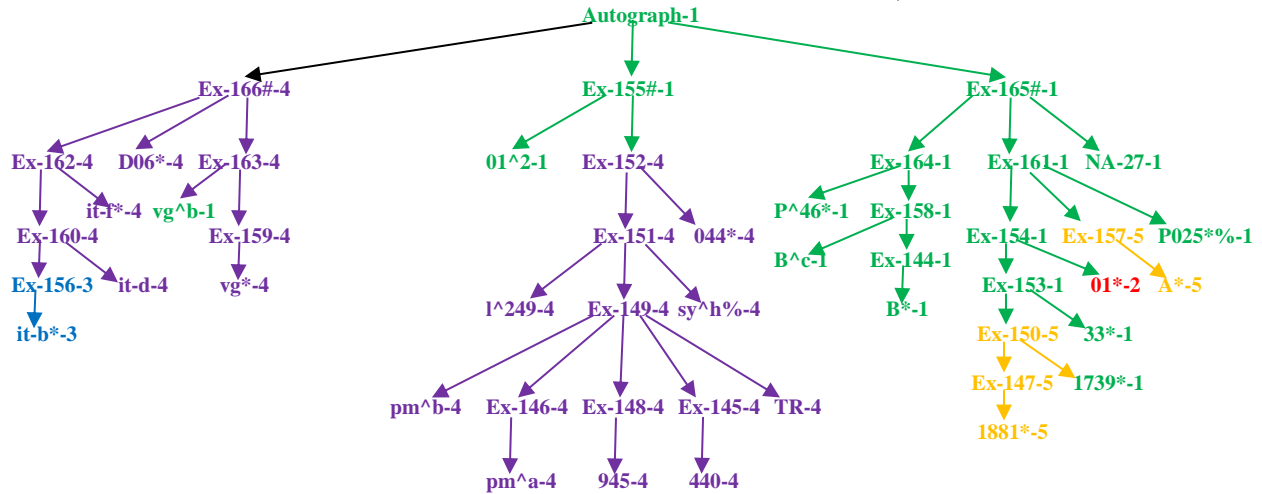


Figure 4.14
Distribution of 1 Corinthians 14:37,1



Variant 1, the choice of the NA-27 editors, is supported by most of the witnesses in the Egyptian text tradition, except for MS 01*, those in the sub-branch headed by third-generation exemplar Ex-157, and those in the sub-branch headed by fifth-generation exemplar Ex-150. It is also supported by the first-generation witnesses of the Antiochan text tradition. In addition, it is supported by vg^ab in the Western text tradition.

Variant 2 occurs only in Codex Sinaiticus (01*) and MS 81*%, not shown in the diagram.

Variant 3 is supported only by the witnesses in the sub-branch of the Western text tradition headed by fourth-generation exemplar Ex-156.

Variant 4 is supported by the witnesses in the Western text traditions, except for vg^b and those in the sub-branch headed by fourth-generation exemplar Ex-156. It is also supported by all the witnesses in the branch of the Antiochan text tradition headed by second-generation exemplar Ex-152.

Variant 5 is supported by all the witnesses in the sub-branch of the Egyptian text tradition headed by third-generation exemplar Ex-157, and those in the sub-branch headed by fifth-generation exemplar Ex-150. The genealogical evidence indicates that variants 2, 3, and 5 have no genealogical possibility of being original, and that variant 1 is the most likely original reading with a probability of 66 percent. The difference between variant 1 (commandment) and variant 4 (commandments) is a matter of grammatical number, singular versus plural.

Conclusion

This chapter identifies the autographic readings of the Greek text of the Book of 1 Corinthians and how they were determined. It provides the genealogical history of each variant reading, locating where each reading originated, and describing how each reading was distributed by inheritance throughout that history. It discusses the principal recensions, locating their origin in history, and identifying their characteristic readings. It discusses doctrinally significant passages and shows that the variant readings there do not alter the orthodoxy of Christian doctrine expressed in the earliest form of the text, but appear in peripheral, inconsequential branches.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The genealogical software and the theory it emulates were successful in reconstructing a genealogical history of the Greek text of the Book of 1 Corinthians. The software made use of a modified version of the textual apparatus in the 27th edition of the Nestle-Aland Greek New Testament. Using index numbers to represent the variant readings in the witnesses to the text, the computer constructed a kind of genetic code for each witness based on its unique combination of variant readings. Then employing the basic principles of heredity, a relatively simple tree diagram was constructed representing the genealogical history of the text.

Heredity is the underlying principle of genealogical relationships. Because manuscripts of a text were copied from exemplars of earlier generations of the text, of necessity they have genealogical relationships. For manuscripts, quantitative affinity (consensus of variant readings) and a sibling gene, coupled with historical directionality constitute the variables for computing genealogical heredity. For variant readings, on the other hand, the domain of heredity is limited to their place of variation. There, heredity is determined by consensus among sibling sister witnesses and by what I call evidence of variant inheritance.⁴⁹ The software uses the heredity of manuscripts and the heredity of variant readings to guide the reconstruction of a historical genealogical tree diagram.

Mixture occurred when a scribe copied from more than one exemplar—a primary parent exemplar and one or more secondary exemplars. The readings of a manuscript were inherited from its primary parent exemplar or borrowed by mixture from its secondary parent exemplars; otherwise a variant was newly introduced by scribal error (either accidentally or intentionally) thus initiating a new line of heredity. A good number of witnesses had no mixture, but considerable

⁴⁹ At any place in the genealogical history of a text, the evidence of a variant's inheritance is its presence in other witnesses of the same or earlier generations.

mixture occurred in others. As it turned out, the presence of mixture does not affect the reconstruction of the genealogical tree, but it is very useful in identifying the places in genealogical history where variants were initiated, in tracing the genealogical history of variants, and in identifying recensions.

The Effect of Recensions

The genealogical theory and associated software were designed to reconstruct the genealogical history of texts where the copying process was simple, without any radical discontinuities. It was anticipated that the initiation and transmission of textual variants would be gradual and that the tree would develop three or four main branches corresponding to the commonly accepted text types. However, the theory and software also made provision for radical dislocations if they perchance had occurred. As it turned out radical dislocations did occur in the form of some major and minor recensions.⁵⁰ Furthermore, the most radical recensions took place in the earliest generation that genealogical relationships could be reasonably determined. This information indicates that in the earliest days of New Testament history its text was in flux and its genealogical history for that time period cannot be confidently reconstructed. These details could have resulted in disappointment except that the earliest recensions, though diverse from one another, nevertheless had sufficient consensus to identify the autographic readings.

Binary Branches

The genealogical tree diagram reconstructed by the software is often binary, that is, there are only two branches where the tree divides. Table 3.3 in Chapter 3 indicates that 19 out of 33 branches were binary. Critics of the genealogical theory claim that the methodology fails whenever there are only two branches, because no consensus can exist where there are only two alternatives. That would be true except for the principle of deferred ambiguity. In such cases, where ambiguity exists in one witness, its sister has the inherited reading.

A reading has evidence of variant inheritance when it is also found in witnesses of earlier generations. A reading will not be found in any witness dating in a generation prior to the one in which the reading first originated. Autographic readings have continual evidence of variant inheritance; all others acquire that evidence in the generation of their origin subsequent to the autograph.

⁵⁰ A recension is recognized by the introduction of a larger number of variants than normal in a witness, usually also accompanied by a larger number of secondary parent exemplars—mixture.

The evidence of variant inheritance usually decides between two equally probable readings; but where even that fails, a final appeal can be made indirectly to internal evidence. So, a binary construction does not turn out to be a crucial weakness. Still, some may be concerned that the earliest history of the text is determined by such diverse witnesses. However, Table 4.4 of Chapter 4 indicates that 90.97% of the textual decisions made in the reconstruction of the historical tree diagram were made on the basis consensus and deferred ambiguity; so, diversity was not a significant deterrent. Furthermore, Table 4.5 of Chapter 4 indicates that 82.1% of the autographic readings were decided on the basis of consensus.

So What!

Someone may ask: “After all those painstaking computations, what is now known that was not already known by means of traditional textual critical methodology?” The answer should be self-evident, but for the sake of review, here is a list of the more prominent bits of knowledge the computations provide:

- (1) A rigorous construction of the genealogical history of the witnesses to the text, something that did not previously exist.
- (2) A precise account of the genealogical history of each variant reading, including its place of origin and subsequent distribution, something that did not previously exist.
- (3) The identity of the autographic readings based on an unbiased implementation of the laws of heredity, together with the mathematical probability of each one, instead of educated estimates.
- (4) An accurate description of the content and structure of the traditional text types, and their internal and external genealogical relationships, instead of educated estimates.
- (5) Hopefully a better understanding of the laws of heredity as they apply to manuscripts.

The laws of heredity have been applied to the factual evidence derived from the existing witnesses to the text of 1 Corinthians. They have been applied with mathematical precision apart for human intervention and bias. Hopefully the results provide a better understanding of the history of the text. In either case, no claim is made that the derived history and the text identified as autographic are free from uncertainty. The results are dependent on the validity of the underlying theory and its software implementation. Undoubtedly the future will bring forth improved theory and implementation.

James D. Price
March, 2018

APPENDIX A

List of Extant Witnesses to the Greek Text of the Book of 1 Corinthians

This appendix contains a list of the extant witnesses to the Greek text of the Book of 1 Corinthians. For each witness it lists its name, date, language (0 = Greek; 1 = other), content (references where readings exist), number of readings, and percentage of completeness. In the content column, a verse is counted as long as it has at least one extant reading.

P^11%	550	0	1:17-22; 2:9, 11-12, 14; 3:2-3; 4:5, 10, 13-17; 5:2-4, 7-8; 6:5-7, 11-15; 7:3-5, 13-14	51	10.87%
P^15%	250	0	7:18-8:3	38	8.10%
P^34%	650	0	16:6, 10	4	0.85%
P^46*	200	0	1:1-2, 6-13, 15-22, 24-2:1; 2:4-11:15; 11:19-13:10; 13:12-14:14; 14:16-15:54; 16:3-22	442	94.24%
P^46^c	200	0	1:1-2, 6-13, 15-22, 24-2:1; 2:4-6:11; 6:15-11:15; 11:19-13:10; 13:12-14:14; 14:16-15:54; 16:3-22	441	94.03%
P^46^1	200	0	1:1-2, 6-13, 15-22, 24-2:1; 2:4-9:25; 10:3-11:15; 11:19-13:10; 13:12-14:14; 14:16-15:54; 16:3-22	440	93.82%
P^46^2	200	0	1:1-2, 6-13, 15-22, 24-2:1; 2:4-9:25; 10:3-11:15; 11:19-13:10; 13:12-14:14; 14:16-15:54; 16:3-22	440	93.82%
P^61%	700	0	1:1-2; 5:2, 5-6, 9-13	13	2.77%
P^68%	650	0	4:13, 15-5:3	10	2.13%
01*	350	0	1:1-16:24	469	100.00%
01^c%	1150	0	1:1-2, 6-13, 15-18, 22-26, 29-30; 2:2-14, 16-4:6; 4:10-17; 5:2-6, 8-7:5; 7:10-14, 17-8:3; 8:6-10, 12-9:9; 9:12-13, 16-10:2; 10:4-17, 19-20, 24-31; 11:2-25, 27, 32; 12:2-11, 13-31; 13:3-10, 12-14:5; 14:7-8, 11-12, 14-25, 28-34, 39-15:5; 15:10-54; 16:3, 6-22, 24	372	79.32%
01^1%	550	0	1:1-2, 6-13, 15-18, 22-26, 29-30; 2:2-4:6; 4:10-17; 5:2-6, 8-7:5; 7:10-14, 17-8:3; 8:6-10, 12-9:9; 9:12-13, 16-10:2; 10:4-17, 19-20, 24-31; 11:2-25, 27, 32; 12:2-11, 13-13:10; 13:12-14:5; 14:7-8, 11-12, 14-25, 28-34, 39-15:5; 15:10-16:3; 16:6-22, 24	374	79.74%
01^2	650	0	1:1-2:14; 2:16-12:31; 13:3-16:24	464	98.93%
A*	450	0	1:1-16:24	466	99.36%
A^c	550	0	1:1-4:10; 4:13-16:24	465	99.15%
B*	350	0	1:1-16:24	469	100.00%
B^c	350	0	1:1-4, 8-3:13; 3:16-4:10; 4:13-16:7; 16:10-19, 23-24	462	98.51%
B^1	350	0	1:1-4, 8-3:13; 3:16-4:10; 4:13-11:2; 11:5-16:7; 16:10-19, 23-24	461	98.29%
B^2	600	0	1:1-4:10; 4:13-11:2; 11:5-16:24	467	99.57%
C*%	450	0	1:4-7:17; 9:7-13:5; 15:45-16:24	328	69.94%
C^1%	450	0	1:4-14, 16-18, 22, 24-26, 29-2:16; 3:2-7:7; 7:10-17; 9:8-10:2; 10:4-20, 24-11:25; 11:27, 31-13:5; 15:45-16:24	303	64.61%
C^2%	550	0	1:4-14, 16-18, 22, 24-26, 29-2:16; 3:2-7:17; 9:7-10:20; 10:24-11:25; 11:27, 31-13:5; 15:45-16:24	309	65.88%
C^3%	850	0	1:4-7:7; 7:10-17; 9:7-10:2; 10:4-13:5; 15:45-16:24	322	68.66%
D06*	550	0	1:1-14:12; 14:23-16:24	455	97.01%
D06^c%	900	0	1:1, 4-18, 22, 24-26, 29-2:14; 3:2-13, 16-4:6; 4:10, 13-5:2; 5:4-6:10; 6:15-7:17; 7:20-8:10; 8:12-10:17; 10:19-23, 27-11:2; 11:5-10, 15, 19, 22-25, 27-32; 12:2-13, 19-13:8; 13:12-14:4; 14:7-8, 11-12, 23-34, 39-15:5; 15:7-15, 24-28, 31-16:7; 16:10-19, 23-24	365	77.83%
D06^1	600	0	1:1-18, 22, 24-26, 29-2:14; 2:16; 3:2-13, 16-4:10; 4:13-6:10; 6:15-7:17; 7:20-8:10; 8:12-9:13; 9:16-10:23; 10:27-11:2; 11:5-15, 19-32; 12:2-13:10; 13:12-14:4; 14:6-8, 11-12, 23-34, 39-15:5; 15:7-15, 24-28, 31-16:7; 16:10-19, 23-24	388	82.73%

D06^2	850	0	1:1-2:15; 3:1-4:6; 4:10, 13-5:2; 5:4-10:17; 10:19-11:10; 11:15-19, 22-25, 27-12:10; 12:12-13, 19-13:8; 13:11-14:5; 14:7-12, 23-16:24	431	91.90%
F*	850	0	1:1-3:5; 3:16-6:5; 6:15-16:24	455	97.01%
G012*	850	0	1:1-3:5; 3:16-6:5; 6:15-16:24	455	97.01%
G012^c	900	0	1:1-3:5; 3:16-6:5; 6:15-16:24	455	97.01%
H015*%	550	0	10:23-29; 11:9-15	13	2.77%
H015^c%	600	0	10:23-29; 11:9-15	13	2.77%
K*%	850	0	6:15-20; 7:2, 5, 13-17, 20-21, 24-8:3; 8:6-7, 12-13; 9:5, 8-9, 12, 17-20, 22, 25; 10:4-8, 11-17, 19-20, 27-31; 11:2, 5-10, 19, 22-24, 27; 12:2-3, 9-10, 13, 19-20, 24-31; 13:5-8, 11-14:5; 14:7, 12, 15, 18, 21-25, 28-34, 40-15:5; 15:7-15, 25, 28-31, 37-47, 50-51, 54-16:3; 16:6, 12-22	168	35.82%
L019*%	750	0	1:1, 8-13, 16-18, 22-26, 29-30; 2:4-8, 11-14; 3:3-4, 10, 13, 17-20; 4:5, 10, 13, 15-16; 5:4, 6, 8-6:7; 6:15-20; 7:2, 5, 13-14, 17, 20-21, 24-8:3; 8:6-8, 12-13; 9:5, 8-9, 12, 16-17, 20, 22, 25; 10:4-8, 13-17, 19-20, 27-31; 11:2, 5-10, 19, 22-24, 27; 12:2-3, 9-10, 12-13, 19-20, 24-31; 13:3, 5-8, 12-14:4; 14:7, 12, 15, 18, 21-25, 28-34, 40-15:5; 15:10-15, 25, 28, 31, 37-47, 50-51, 54; 16:3, 6, 12-22	226	48.19%
I%	450	0	10:29; 11:9-10, 19, 27; 12:3, 27; 14:12, 32-33; 15:3, 15, 28, 49-50; 16:2, 12	20	4.26%
P025*%	850	0	1:1, 8-13, 16-26, 29-30; 2:2-8, 11-15; 3:3-10, 13-4:17; 5:2-6, 8-6:20; 7:2-7, 13-14, 18-8:8; 8:11-9:13; 9:16-17, 20-25; 10:4-17, 19-31; 11:2, 5-15, 19, 22-25, 27; 12:2-10, 12-13, 19-21; 13:8-10, 12-14:5; 14:7-10, 12-13, 15-21, 40-15:5; 15:10-15, 20, 25, 28-47, 50-16:8; 16:12-22	306	65.25%
044*	1000	0	1:1-16:24	469	100.00%
48%	450	0	2:2-8, 11-14, 16; 3:2-10; 4:5; 5:6-11; 6:5-8; 12:24-13:8; 13:11-14:10; 14:12-25, 28-15:17; 15:25	95	20.26%
75%	500	0	15:29-16:8; 16:12-19, 23-24	42	8.96%
88%	500	0	15:54-16:8	13	2.77%
121%	950	0	15:52-16:24	28	5.97%
185%	350	0	2:13; 3:2-3	5	1.07%
199%	700	0	11:19, 22-24	9	1.92%
201%	450	0	12:2-3, 9-11, 13; 14:21-28	21	4.48%
222%	550	0	9:5-7, 12	3	0.64%
0243*%	950	0	13:4-16:24	121	25.80%
0243^c%	1000	0	13:4-16:24	121	25.80%
270%	500	0	15:10-15, 24-25	7	1.49%
278%	850	0	7:37-8:6	24	5.12%
285%	550	0	4:5-6; 12:24-27; 14:26-33	12	2.56%
289%	1300	0	2:11-3:1; 3:3-4:11; 13:13; 14:4-5, 7-11, 13, 15, 18	50	10.66%
1	1150	0	1:1-16:24	469	100.00%

6	1250	0	1:1-16:24	469	100.00%
33*	850	0	1:1-16:24	469	100.00%
42	1050	0	1:1-16:24	469	100.00%
69	1450	0	1:1-16:24	469	100.00%
81*%	1044	0	1:1-2, 6-26, 29-30; 2:2-8, 11-16; 3:3-14, 17-20; 4:5-10, 13, 15-5:4; 5:6-6:11; 6:15-7:9; 7:13-8:8; 8:11-13; 9:5-13, 17-10:2; 10:4-17, 19-31; 11:2, 5-19, 22-24, 27, 34-12:10; 12:12-13, 19-20, 24-13:3; 13:5-10, 12-14:4; 14:7-13, 15-37, 39-15:5; 15:7-15, 20, 25, 28-47, 50-51, 54-16:8; 16:12-19, 24	357	76.12%
104*%	1087	0	1:1, 8-13, 15-18, 22-26, 29-30; 2:4-8, 11-14; 3:3-4, 10, 13, 17-4:6; 4:10, 13-17; 5:2, 4-6, 8-6:11; 6:15-20; 7:2, 5, 13-14, 17-8:3; 8:6-8, 11-9:12; 9:16-17, 20, 22-10:2; 10:4-17, 19-20, 27-31; 11:2, 5-10, 17-19, 22-24, 27, 32; 12:2-3, 9-10, 12-13, 19-13:10; 13:12-14:4; 14:7-8, 12, 15-25, 28-34, 40-15:5; 15:10-15, 25, 28-31, 37-47, 50-51, 54-16:3; 16:6, 12-19	286	60.98%
131*	1350	0	1:1-16:24	469	100.00%
309	1250	0	1:1-16:24	469	100.00%
323*	1150	0	1:1-16:24	469	100.00%
326	950	0	1:1-16:24	469	100.00%
365%	1150	0	1:1, 8-13, 15-18, 22, 24-26, 29-30; 2:2-8, 10-15; 3:3-4, 10, 13, 17-4:6; 4:10, 13-16; 5:2, 4-6, 8-6:7; 6:10-11, 15-20; 7:2, 5, 13-14, 17-21, 24-8:3; 8:6-8, 11-9:1; 9:5, 8-12, 17-10:2; 10:4-9, 13-17, 19-20, 27-31; 11:2, 5-10, 15-19, 22-25, 27; 12:2-10, 12-13, 19-31; 13:5-10, 12-14:5; 14:7, 10, 12, 15-18, 21-25, 28-34, 40-15:5; 15:10-15, 20, 25, 28-47, 50-51, 54-16:3; 16:6-8, 12-22	286	60.98%
440	1150	0	1:1-16:24	469	100.00%
491	1050	0	1:1-16:24	469	100.00%
614*	1250	0	1:1-16:24	469	100.00%
629	1350	0	1:1-16:24	469	100.00%
630%	1300	0	1:1, 8-13, 15-22, 24-26, 29-30; 2:2-8, 10-15; 3:3-13, 16-20; 4:5-17; 5:2-6, 8-6:7; 6:10-11, 15-20; 7:2-7, 13-14, 17-8:3; 8:6-8, 11-9:1; 9:5-9, 12-13, 17, 20-22, 25-10:2; 10:4-20, 24-31; 11:2, 5-15, 19, 22-24, 26-27; 12:2-10, 13, 19-20, 24-31; 13:3, 5-8, 12-14:4; 14:6-8, 12-13, 15, 18-34, 39-15:15; 15:20, 25-51, 54-16:6; 16:12-19, 24	313	66.74%
945	1050	0	1:1-16:24	469	100.00%
1175*%	950	0	1:1-2, 6-13, 15-30; 2:2-8, 10-14; 3:1, 3-13, 16-4:10; 4:13-5:4; 5:6-6:10; 6:15-20; 7:2-5, 13-21, 24-8:8; 8:11-9:1; 9:5-25; 10:4-17, 19-20, 24-31; 11:2, 5-19, 22-25, 27, 32; 12:2-13, 19-20, 24-13:10; 13:12-14:4; 14:7, 10-12, 15-34, 39-15:5; 15:7-15, 20, 25, 28-47, 50-51, 54-16:7; 16:12-19	356	75.91%
1175^c%	1000	0	1:1-2, 6-13, 15-30; 2:2-8, 10-14; 3:1, 3-13, 16-4:10; 4:13-5:4; 5:6-6:10; 6:15-20; 7:2-5, 13-21, 24-8:8; 8:11-9:1; 9:5-25; 10:4-17, 19-20, 24-31; 11:2, 5-19, 22-25, 27, 32; 12:2-13, 19-20, 24-13:10; 13:12-14:4; 14:7, 10-12, 15-34, 39-15:5; 15:7-15, 20, 25, 28-47, 50-51, 54-16:7; 16:12-19	355	75.69%

1241*%	1150	0	1:1, 8-13, 16-18, 22-26, 29-30; 2:2-8	26	5.54%
1505*%	1150	0	1:1, 8-13, 16-18, 22, 24-26, 29-30; 2:2-8, 11-14; 3:3-4, 10, 13-14, 17-4:5; 4:10, 13, 15-17; 5:4, 6, 8-6:7; 6:10, 15-20; 7:2, 5, 9-14, 17, 20-8:3; 8:6-8, 11-13; 9:5-13, 17, 20, 22, 25-10:2; 10:4-8, 10-17, 19-20, 27-31; 11:2, 5-10, 15, 19, 22-24, 27; 12:2-10, 12-20, 24-31; 13:3, 5-8, 12-14:5; 14:7-8, 11-12, 15, 18, 21-25, 28-34, 40-15:5; 15:10-15, 24-47, 50-51, 54; 16:3, 6, 12-22	261	55.65%
1506%	1320	0	1:8-13, 15-22, 24-30; 2:2-8, 11-14; 3:3-13, 17-20; 4:5, 9-10, 13, 15	57	12.15%
1611	950	0	1:1-16:24	469	100.00%
1739*	900	0	1:1-16:24	469	100.00%
1739^c	950	0	1:1-16:24	469	100.00%
1881*	1350	0	1:1-16:24	469	100.00%
1881^c	1400	0	1:1-16:24	469	100.00%
2138	1072	0	1:1-16:24	469	100.00%
2464*%	850	0	1:1, 8-13, 16-26, 29-30; 2:2-8, 11-14; 3:3-4, 10, 13, 17-4:5; 4:10-13, 15-17; 5:2, 4, 6-6:8; 6:11, 15-7:7; 7:13-14, 17-21, 24-8:8; 8:12-13; 9:5-13, 17-10:2; 10:4-31; 11:2, 5-15, 19, 22-24, 26-27; 12:2-10, 12-13, 19-20, 24-31; 13:4-8, 12-14:4; 14:7-10, 12-13, 15-25, 28-34, 39-15:5; 15:10-15, 20, 25, 28-47, 50-51, 54; 16:3-8, 12-19	305	65.03%
2495	1450	0	1:1-16:24	469	100.00%
pm^a	850	0	1:1-16:24	469	100.00%
pm^b	850	0	1:1-16:24	469	100.00%
TR	1892	0	1:1-16:24	469	100.00%
HF	1982	0	1:1-16:24	469	100.00%
RP	2005	0	1:1-16:24	469	100.00%
NA-27	1979	0	1:1-16:24	469	100.00%
vg*	400	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:20; 7:2-5, 13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:12; 14:14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:24	383	81.66%
vg^a	400	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:20; 7:2-5, 13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:12; 14:14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:24	383	81.66%
vg^b	400	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:20; 7:2-5, 13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:12; 14:14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:24	383	81.66%
vg^cl	1592	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-7:7; 7:13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-14:12; 14:14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:24	401	85.50%
vg^st	1994	1	1:1-14, 16-18, 22-26, 29-30; 2:4-8, 10-14; 3:3-4:10; 4:13-5:1; 5:3-6:11; 6:15-7:7; 7:13-17, 20-21, 24-8:13; 9:5-9, 12-10:17;	380	81.02%

			10:19-11:2; 11:5-14, 19-24, 26-29, 34-12:13; 12:19-31; 13:3-14:8; 14:11-12, 14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:24		
it-ar	950	1	1:1-18, 22-26, 29-2:1; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-7:7; 7:13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-14:12; 14:14-15, 18-34, 40-15:6; 15:10-15, 20-51, 54-16:19; 16:23-24	393	83.80%
it-b*	450	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:2-4:10; 4:13-5:1; 5:3-7:7; 7:13-17, 20-9:1; 9:5-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-14:12; 14:14-15, 18-15:6; 15:10-15, 20-51, 54-16:19; 16:23-24	402	85.71%
it-d	450	1	1:1-18, 22-26, 29-30; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:20; 7:2-7, 13-17, 20-21, 24-8:13; 9:5-9, 12-10:17; 10:19-11:2; 11:5-14, 17-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:8; 14:11-12, 14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:23-24	378	80.60%
it-e%	450	1	1:1-14, 16-18, 22-26, 29-30; 2:4-8, 10-14; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:11; 6:15-20; 7:2-5, 13-17, 20-21, 24-8:13; 9:5-9, 12-10:17; 10:19-11:2; 11:5-14, 19-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:8; 14:11-12, 14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:24	363	77.40%
it-f*	550	1	1:1-18, 22-30; 2:4-8, 10-14, 16; 3:3-4:10; 4:13-5:1; 5:3-4, 6-6:20; 7:2-7, 13-17, 20-21, 24-8:13; 9:5-9, 12-10:17; 10:19-11:2; 11:5-24, 26-29, 34-12:13; 12:19-31; 13:3-10, 12-14:8; 14:11-12, 14-15, 18-37, 39-15:6; 15:10-15, 20-51, 54-16:19; 16:23-24	381	81.24%
it-g%	800	1	1:1, 8-13, 15-18, 22, 24-26, 29-30; 2:4-8, 11-14, 16; 3:3-4, 10, 13, 17-20; 4:5, 10, 13, 15-16; 5:4, 6, 8-6:7; 6:14-15, 19-20; 7:2, 5-7, 13-14, 17, 20-21, 24-8:3; 8:6-8, 12-13; 9:5-9, 12, 17, 20, 22, 25; 10:4-8, 13-17, 19-20, 27-31; 11:2, 5-10, 15, 19, 22-24, 27-29; 12:2-3, 9-10, 13, 19-20, 24-31; 13:5-8, 12-14:4; 14:7, 10, 12, 15, 18, 21-25, 28-34, 40-15:5; 15:10-15, 25, 28, 31, 37-47, 50-51, 54; 16:3, 6, 12-19, 23	227	48.40%
it-r%	700	1	1:1-18, 22-2:1; 2:4-8, 10-14, 16; 3:3-5; 6:1-7:7; 7:20-24; 13:13-14:5; 14:11-12, 14-15, 18; 15:14-15, 20-51, 54-16:19; 16:23-24	144	30.70%
it-t%	1000	1	1:8-10, 17-18, 22; 2:8; 3:10, 13, 17-20; 4:5, 10, 13, 15; 5:8; 6:14-15, 19-20; 7:2, 5-7, 13-14, 28-34, 37-40; 9:7-9, 12, 17; 10:16-17, 19-23, 27-31; 11:2, 23-24, 26-29; 12:2-3, 9-10, 13, 27-31; 13:5-8; 15:2-5, 10, 37-47, 50-51, 54	111	23.67%
sa^a%	250	1	1:1-13, 15-18, 22-26, 29-2:1; 2:4-8, 10-14, 16; 3:2-13, 17-4:6; 4:10, 13, 15-5:1; 5:3-6:7; 6:11-15, 19-7:5; 7:13-17, 20-21, 24-9:1; 9:5-9, 12-13, 16-20, 22, 25; 10:3-17, 19-31; 11:2, 5-14, 19-24, 26-29; 12:2-3, 9-10, 13, 19-20, 24-31; 13:3-10, 12-14:4; 14:7, 10-12, 14-15, 18, 21-38, 40-15:5; 15:10-15, 20, 25, 28-31, 37-51, 54-16:3; 16:6-7, 10-19, 23-24	319	68.02%
sa^b%	250	1	1:1-26, 29-30; 2:4-8, 10-14, 16; 3:2-13, 17-4:6; 4:10, 13, 15-16; 5:1, 3-6, 8-6:7; 6:14-15, 19-7:5; 7:13-14, 17, 20-21, 24-8:10; 8:12-9:1; 9:5, 8-9, 12-13, 16-20, 22, 25; 10:3-9, 13-17, 19-31; 11:2, 5-10, 19-24, 27-29; 12:2-3, 9-10, 12-13, 19-20, 24-31; 13:3, 5-10, 12-14:4; 14:7, 10-12, 15, 18, 21-34, 38, 40-15:5; 15:10-15, 20, 25, 28-31, 37-47, 50-51, 54; 16:3, 6-7, 12-19	295	62.90%

bo^a%	250	1	1:1-13, 15-18, 22-26, 29-2:1; 2:4-8, 10-14, 16; 3:2-13, 17-4:6; 4:10, 13, 15-5:1; 5:3-6:7; 6:11-15, 19-7:5; 7:13-17, 20-21, 24-9:1; 9:5-9, 12-13, 16-20, 22, 25; 10:3-10, 13-17, 19-31; 11:2, 5-14, 19-24, 26-29; 12:2-3, 9-10, 12-13, 19-20, 24-31; 13:3, 5-10, 12-14:4; 14:7, 10-12, 14-15, 18, 21-34, 38, 40-15:5; 15:10-15, 20, 25, 28-31, 37-51, 54-16:3; 16:6-7, 10-19, 23-24	322	68.66%
bo^b%	250	1	1:1-26, 29-2:1; 2:4-8, 10-14, 16; 3:2-13, 17-4:6; 4:10, 13, 15-5:1; 5:3-6:7; 6:11-15, 19-7:5; 7:13-17, 20-21, 24-9:1; 9:5-9, 12-13, 16-20, 22, 25; 10:3-10, 13-17, 19-31; 11:2, 5-14, 19-24, 26-29; 12:2-3, 9-10, 12-13, 19-20, 24-31; 13:3-10, 12-14:4; 14:7, 10-12, 14-15, 18, 21-34, 38, 40-15:5; 15:10-15, 20, 25, 28-31, 37-51, 54-16:3; 16:6-7, 10-19, 23-24	326	69.51%
sy^h%	616	1	1:1-13, 15-22, 24-2:1; 2:4-8, 10-14, 16; 3:2-13, 17-4:10; 4:13, 15-5:1; 5:3-4, 6-6:10; 6:14-7:7; 7:13-17, 20-9:25; 10:4-17, 19-31; 11:2, 5-15, 19-24, 26-31, 34-12:3; 12:9-13, 19-31; 13:3-14:4; 14:7, 10, 12, 14-15, 18-15:6; 15:10-15, 20, 25, 28-31, 37-47, 50-51, 54-16:3; 16:6-7, 10-24	359	76.55%
sy^p%	425	1	1:1-22, 24-2:1; 2:4-8, 10-14, 16; 3:3-13, 17-4:10; 4:13, 15-5:1; 5:3-6:7; 6:10-11, 15-7:7; 7:13-17, 20-8:10; 8:12-9:12; 9:16-25; 10:3-17, 19-31; 11:2, 5-15, 19-24, 26-31, 34-12:13; 12:19-31; 13:4-14:4; 14:7, 10, 12, 14-15, 18, 21-15:5; 15:10-15, 20, 25, 28-31, 37-47, 50-51, 54-16:3; 16:6-7, 10-24	358	76.33%
l^249	850	0	1:1-16:24	469	100.00%
l*	850	0	1:1-16:24	469	100.00%
l^846	850	0	1:1-16:24	469	100.00%
l^1575	850	0	1:1-16:24	469	100.00%
l^2211*	995	0	1:1-16:24	469	100.00%
l^2211^c	995	0	1:1-16:24	469	100.00%
Ambst%	366	1	1:1-2, 6-8, 11, 14, 18, 22, 28; 2:1, 13, 16; 3:3, 5, 13, 16-17; 4:9, 17; 5:3-6; 6:11-14, 19; 7:1, 5-7, 14, 17, 20, 32-34, 39-40; 8:2, 7, 11, 13-9:1; 9:5-7, 9-10, 13-16, 18; 10:8, 10, 13, 17, 20-23, 27-28; 11:2, 15-19, 23-24, 27-29, 34-12:3; 12:9, 12, 21, 27-31; 13:3-4, 11; 14:6-7, 10, 12, 14, 19, 33-37, 39-15:3; 15:10, 14-15, 27-28, 31, 50-51, 54; 16:6, 12-19, 23-24	123	26.23%
BasA%	374	1	2:01	1	0.21%
Cl^a%	215	0	1:20, 23-24; 2:9-10, 13, 15; 3:1-3, 10-13; 4:9, 11-13; 5:7; 6:8-10, 16; 7:3-7, 10, 38-40; 8:2-3, 7-8, 11, 13; 9:20, 22, 25; 10:20-24; 11:3, 27, 31-34; 12:9-11, 13; 13:2, 4, 8, 11, 13; 14:6, 10-11; 15:49-50	78	16.63%
Cl^b%	215	0	1:20, 23-24; 2:9-10, 13-15; 3:1-3, 10-13; 4:9, 11-13, 15; 5:7; 6:8-10, 16; 7:3-7, 10, 38-40; 8:2-3, 7-8, 11, 13; 9:20, 22, 25; 10:20-24; 11:3, 27, 31-34; 12:9-11, 13; 13:2, 4-8, 11-13; 14:6, 10-11; 15:49-50	82	17.48%
Cyp^a%	258	1	1:18, 22; 3:3; 6:2, 11, 16; 7:7, 32-34, 39; 8:2, 13; 9:22; 10:23; 11:19, 24, 26; 14:34; 15:54	25	5.33%
Did^a%	398	0	2:9, 15; 3:3, 10; 5:2; 7:29; 12:3, 9, 27	10	2.13%
Did^b%	398	0	9:22	1	0.21%

Epiph ^a %	403	0	1:20; 2:10, 16; 3:12, 16; 5:5, 7; 6:11; 7:5, 10, 34, 39; 9:9; 10:3, 11, 20; 12:6, 27; 14:19, 34; 15:14, 25, 28-29	29	6.18%
Epiph ^b %	403	0	1:20; 2:10, 16; 3:12, 16, 20; 5:5, 7; 6:11; 7:5, 10, 34, 39; 9:9; 10:3, 11, 20; 12:6, 27; 14:15, 19, 34; 15:14, 25, 28-29	31	6.61%
Eus ^a %	339	0	1:6; 4:13; 7:31, 34-35; 9:10, 13; 12:31; 15:54	11	2.35%
Eus ^b %	339	0	1:6; 4:13; 7:31, 34-35; 9:10, 13; 12:31; 15:54	11	2.35%
Hier ^a %	420	1	13:3; 15:51	2	0.43%
Hier ^b %	420	1	13:3; 15:51	2	0.43%
Hipp%	235	0	2:01	1	0.21%
Ir%	150	0	3:3, 17; 15:50	4	0.85%
Iarm%	400	1	5:11; 6:10, 15; 10:11	5	1.07%
Irlat ^a %	395	1	2:15; 3:16-17; 5:6; 6:10-15, 20; 7:14; 8:6, 11; 10:3, 8-11, 16; 12:6; 13:10, 12; 15:3, 14-20, 27-28, 45, 49-50, 54	38	8.10%
Irlat ^b %	395	1	6:14; 10:11, 16; 15:50, 54	5	1.07%
Lcf%	371	1	5:3-6; 6:16	5	1.07%
McionA%	150	0	15:47	1	0.21%
McionE%	150	0	3:20; 14:19-21, 34	4	0.85%
McionT%	150	0	15:25, 50	3	0.64%
Meth%	250	0	6:10, 14-20; 13:11	8	1.71%
Or ^a %	254	0	1:28; 3:3, 13; 4:6; 8:8; 9:9-10; 10:2-3; 11:19; 12:31; 13:10, 12; 15:5-6, 50	17	3.62%
Or ^b %	254	0	1:28; 3:3, 13; 4:6; 8:8; 9:9-10; 10:2-3; 11:19; 12:31; 13:10, 12; 15:5-6, 50	17	3.62%
Or ^{lat} ^a %	254	1	1:23	1	0.21%
Pel%	418	1	2:11, 16; 3:5; 5:3; 7:1; 9:1, 5-7, 15; 11:24, 29; 12:2-3, 31; 13:11; 14:6-7, 12, 18; 15:31; 16:15, 19, 24	26	5.54%
Ptol ^{Ir} %	180	0	1:18; 2:14-15; 11:10	4	0.85%
Spec%	450	0	1:20; 2:10-11, 13; 6:10, 16; 7:34; 10:20, 31; 12:3, 31; 14:12; 15:51	16	3.41%
Tert%	220	1	1:14-15, 22, 28; 3:16-17; 4:9; 5:5, 10; 6:11-14; 7:13-14, 32-34, 39-40; 8:8; 9:1, 5, 15; 10:23, 28; 13:3, 11; 15:28, 51, 54	32	6.82%

APPENDIX B

List of the References Associated

with Each Place of Variation

This appendix contains a list of the references associated with each place of variation. The number to the left of the hyphen is the index number of the place of variation, and the numbers to the right constitute the reference. The reference indicates the chapter, verse, and ordered rank of the place of variation in that verse. For example, 10-1:6,2 indicates that the 10th place of variation occurs in chapter 1, verse 6, and is the 2th place of variation in that verse.

Reference at Each Place of Variation

1- 1:1,1	2- 1:1,2	3- 1:2,1	4- 1:2,2	5- 1:4,1	6- 1:6,1	7- 1:8,1
8- 1:8,2	9- 1:8,3	10- 1:9,1	11- 1:10,1	12- 1:11,1	13- 1:13,1	14- 1:13,2
15- 1:13,3	16- 1:14,1	17- 1:15,1	18- 1:16,1	19- 1:17,1	20- 1:17,2	21- 1:17,3
22- 1:18,1	23- 1:18,2	24- 1:18,3	25- 1:20,1	26- 1:22,1	27- 1:23,1	28- 1:24,1
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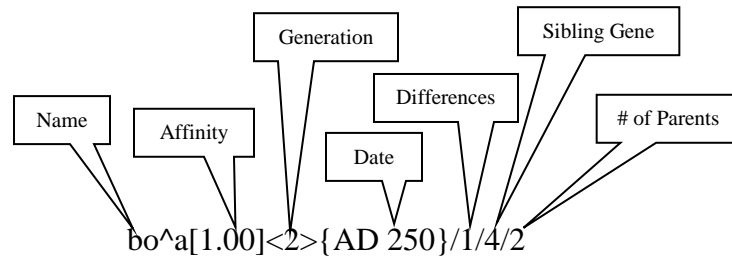
Appendix C

The Genealogical Tree Diagram of

The Textual History of the Book of 1 Corinthians

This appendix contains the tree diagram of the genealogical history of the Greek text of the Book of 1 Corinthians. The tree is displayed vertically rather than horizontally. That is, the autograph in the upper left corner with succeeding generations indented from the left progressively downward. Sibling daughter descendants are linked by vertical lines. For example, the first-generation descendants of the autograph are Ex-198#,⁵¹ Ex-201#, and Ex-203#. Only the primary exemplars are displayed, so no mixture connections are shown. The diagram spills over onto succeeding pages, but the lower-case letters at the page breaks show where the lines from one page connect to those of the next.

The format of the information on each line is as follows: (1) the name of the witness; (2) the genealogical affinity of the witness with its primary parent exemplar, enclosed in square brackets []; (3) generation from the autograph, enclosed in angular brackets <>; (4) date, enclosed in curly brackets {}; (5) the number of variants the witness differs from its primary parent, enclosed in slant marks //; (6) The number of variants in the sibling gene; and (7) the number of parents the witness has.



⁵¹ The names of exemplars created by the software have the prefix “Ex-” followed by a number; extant witnesses have the names provided in NA-27 as modified for compatibility with the software (discussed in Chapter Two of Volume 1).

Genealogical Tree of 1 Corinthians

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Autograph[0.00]<0>{ AD 65}/0/0/0
|-Ex-166#[0.84]<1>{ AD 70}/65/65/2
| |-P^34#[1.00]<2>{ AD 650}/0/65/1
| |-D06^1[0.72]<2>{ AD 600}/95/65/6
| |-088#[0.82]<2>{ AD 500}/2/65/2
| |-1241*#[1.00]<2>{ AD 1150}/0/65/1
| |-it-e#[0.99]<2>{ AD 450}/3/65/3
| |-BasA#[1.00]<2>{ AD 374}/0/65/1
| |-Did^b#[1.00]<2>{ AD 398}/0/65/1
| |-Hier^a#[0.50]<2>{ AD 420}/1/65/2
| |-Hipp#[1.00]<2>{ AD 235}/0/65/1
| |-McionA#[0.00]<2>{ AD 150}/1/65/2
| |-Or^lat^a#[1.00]<2>{ AD 254}/0/65/1
| |-Ex-163[0.99]<2>{ AD 120}/5/65/3
| | |-vg^b[0.87]<3>{ AD 400}/51/5/6
| | |-P^61#[0.82]<3>{ AD 700}/2/5/2
| | |-Cl^a#[0.55]<3>{ AD 215}/25/5/6
| | |-Cl^b#[0.47]<3>{ AD 215}/31/5/6
| | |-Did^a#[0.60]<3>{ AD 398}/2/5/2
| | |-Epiph^a#[0.70]<3>{ AD 403}/7/5/4
| | |-Epiph^b#[0.68]<3>{ AD 403}/8/5/5
| | |-Eus^a#[0.57]<3>{ AD 339}/3/5/3
| | |-Eus^b#[0.71]<3>{ AD 339}/2/5/3
| | |-Irlat^a#[0.65]<3>{ AD 395}/12/5/5
| | |-Ex-159[0.99]<3>{ AD 170}/5/5/3
| | | |-vg*[1.00]<4>{ AD 400}/0/5/1
| | | |-vg^a[1.00]<4>{ AD 400}/0/5/1
| | | |-vg^cl[0.97]<4>{ AD 1592}/13/5/5
| | | |-vg^st[0.99]<4>{ AD 1994}/5/5/3
| | | |-Irlat^b#[0.60]<4>{ AD 395}/2/5/3
| | | |-Meth#[0.83]<4>{ AD 250}/1/5/2
| | | |-Tert#[0.54]<4>{ AD 220}/13/5/6
| |-Ex-162[0.99]<2>{ AD 75}/6/65/3
| | |-it-f*[0.98]<3>{ AD 550}/7/6/4
| | |-D06^c#[0.75]<3>{ AD 900}/81/6/8
| | |-it-r#[0.90]<3>{ AD 700}/15/6/5
| | |-Ir#[0.50]<3>{ AD 150}/2/6/2
| | |-Ptol^Ir#[0.33]<3>{ AD 180}/2/6/2
| | |-Ex-160[0.95]<3>{ AD 80}/21/6/5
| | | |-it-d[0.98]<4>{ AD 450}/6/21/5

```

a

b

a	b
	-Ex-156[0.96]<4>{AD 100}/15/21/3
	-it-ar[0.90]<5>{AD 950}/38/15/12
	-it-b*[0.94]<5>{AD 450}/26/15/7
	-D06*[0.68]<5>{AD 550}/124/15/10
	-F*[0.70]<5>{AD 850}/118/15/13
	-G012*[0.69]<5>{AD 850}/120/15/15
	-G012^c[0.70]<5>{AD 900}/118/15/15
	-Ambst%[0.66]<5>{AD 366}/41/15/10
	-Cyp^a%[0.74]<5>{AD 258}/6/15/4
	-McionE%[0.50]<5>{AD 150}/2/15/2
	-Pel%[0.69]<5>{AD 418}/8/15/5
	-Spec%[0.53]<5>{AD 450}/7/15/4
	-Ex-155#[0.86]<1>{AD 175}/66/66/2
	-01^2[0.95]<2>{AD 650}/21/66/6
	-01^c%[0.95]<2>{AD 1150}/20/66/4
	-H015*%[0.92]<2>{AD 550}/1/66/2
	-H015^c%[0.85]<2>{AD 600}/2/66/3
	-it-t%[0.88]<2>{AD 1000}/13/66/4
	-Ex-152[0.87]<2>{AD 225}/59/66/4
	-044*[0.94]<3>{AD 1000}/29/59/6
	-Ex-151[0.91]<3>{AD 275}/44/59/8
	-I^249[0.99]<4>{AD 850}/7/44/5
	-D06^2[0.75]<4>{AD 850}/107/44/11
	-075%[0.95]<4>{AD 500}/2/44/3
	-sy^h%[0.89]<4>{AD 616}/40/44/7
	-Ex-149[1.00]<4>{AD 325}/1/44/2
	-I^2211*[1.00]<5>{AD 995}/0/1/1
	-69[1.00]<5>{AD 1450}/2/1/2
	-309[1.00]<5>{AD 1250}/1/1/1
	-323*[0.99]<5>{AD 1150}/4/1/3
	-326[0.95]<5>{AD 950}/22/1/9
	-491[1.00]<5>{AD 1050}/1/1/1
	-614*[0.97]<5>{AD 1250}/14/1/6
	-629[0.93]<5>{AD 1350}/35/1/10
	-1611[1.00]<5>{AD 950}/1/1/2
	-2138[1.00]<5>{AD 1072}/1/1/2
	-pm^b[0.99]<5>{AD 850}/4/1/2
	-I^846[0.99]<5>{AD 850}/3/1/2
	-I^1575[1.00]<5>{AD 850}/1/1/2
	-I^2211^c[1.00]<5>{AD 995}/0/1/1
a	b

a b

| |-TR[0.98]<5>{AD 1892}/10/1/6

| |-HF[0.99]<5>{AD 1982}/3/1/4

| |-RP[0.99]<5>{AD 2005}/4/1/4

| |-Ex-146[1.00]<5>{AD 375}/1/1/2

| | |-pm^a[1.00]<6>{AD 850}/0/1/1

| | |-l*[1.00]<6>{AD 850}/0/1/1

| | |-sy^p%[0.81]<6>{AD 425}/68/1/9

| |-Ex-148[0.98]<5>{AD 700}/10/1/5

| | |-945[0.99]<6>{AD 1050}/7/10/5

| | |-6[0.82]<6>{AD 1250}/84/10/10

| | |-L019*%[0.92]<6>{AD 750}/19/10/5

| |-Ex-145[1.00]<5>{AD 1000}/1/1/1

| | |-1[1.00]<6>{AD 1150}/0/1/1

| | |-42[1.00]<6>{AD 1050}/0/1/1

| | |-131*[1.00]<6>{AD 1350}/1/1/1

| | |-440[1.00]<6>{AD 1150}/0/1/1

| | |-2495[1.00]<6>{AD 1450}/2/1/3

| -Ex-165#[0.93]<1>{AD 75}/32/32/2

| |-P^15%[0.76]<2>{AD 250}/9/32/3

| |-K*%[0.92]<2>{AD 850}/14/32/3

| |-048%[0.93]<2>{AD 450}/7/32/4

| |-0199%[1.00]<2>{AD 700}/0/32/1

| |-0222%[1.00]<2>{AD 550}/0/32/1

| |-0285%[0.83]<2>{AD 550}/2/32/3

| |-0289%[0.86]<2>{AD 1300}/7/32/4

| |-NA-27[0.93]<2>{AD 1979}/32/32/4

| |-it-g%[0.92]<2>{AD 800}/18/32/5

| |-sa^a%[0.87]<2>{AD 250}/41/32/6

| |-sa^b%[0.92]<2>{AD 250}/23/32/5

| |-bo^a%[0.89]<2>{AD 250}/34/32/5

| |-bo^b%[0.87]<2>{AD 250}/43/32/5

| |-Hier^b%[1.00]<2>{AD 420}/0/32/1

| |-Ex-164[0.90]<2>{AD 150}/47/32/4

| | |-P^46^c[0.77]<3>{AD 200}/100/47/8

| | |-P^46*[0.76]<3>{AD 200}/105/47/5

| | |-P^46^1[0.77]<3>{AD 200}/102/47/8

| | |-P^46^2[0.77]<3>{AD 200}/101/47/8

| | |-0185%[1.00]<3>{AD 350}/0/47/1

| | |-0201%[0.81]<3>{AD 450}/4/47/3

| | |-Or^b%[0.82]<3>{AD 254}/3/47/3

a b

a b

| |-Ex-158[0.89]<3>{AD 204}/51/47/7
 | | |-B^c[1.00]<4>{AD 350}/0/51/1
 | | | |-B^2[0.99]<4>{AD 600}/7/51/3
 | | | | |-I%[0.90]<4>{AD 450}/2/51/3
 | | | | | |-0270%[0.86]<4>{AD 500}/1/51/2
 | | | | | | |-Or^a%[0.76]<4>{AD 254}/4/51/4
 | | | | | | | |-Ex-144[0.99]<4>{AD 300}/4/51/3
 | | | | | | | | |-B*[1.00]<5>{AD 350}/0/4/1
 | | | | | | | | | |-B^1[1.00]<5>{AD 350}/0/4/1
 | |-Ex-161[0.97]<2>{AD 80}/16/32/4
 | | |-P025*%[0.88]<3>{AD 850}/37/16/7
 | | |-81*%[0.88]<3>{AD 1044}/43/16/8
 | | |-104*%[0.90]<3>{AD 1087}/30/16/6
 | | |-1175*%[0.88]<3>{AD 950}/41/16/7
 | | |-1175^c%[0.88]<3>{AD 1000}/41/16/7
 | | |-1505*%[0.85]<3>{AD 1150}/39/16/7
 | | |-2464*%[0.91]<3>{AD 850}/26/16/7
 | |-Ex-157[0.89]<3>{AD 100}/52/16/5
 | | |-A*[1.00]<4>{AD 450}/2/52/2
 | | | |-A^c[0.99]<4>{AD 550}/6/52/3
 | | | | |-P^11%[0.84]<4>{AD 550}/8/52/3
 | | | | | |-0278%[1.00]<4>{AD 850}/0/52/1
 | | | | | | |-Irm%[0.60]<4>{AD 400}/2/52/3
 | | | | | | | |-Lcf%[0.60]<4>{AD 371}/2/52/3
 | | | | | | | | |-McionT%[0.33]<4>{AD 150}/2/52/3
 | |-Ex-154[0.97]<3>{AD 300}/13/16/5
 | | |-01*[0.95]<4>{AD 350}/23/13/5
 | | | |-01^1%[0.95]<4>{AD 550}/20/13/6
 | | | | |-C*%[0.86]<4>{AD 450}/45/13/8
 | | | | | |-C^1%[0.87]<4>{AD 450}/40/13/9
 | | | | | | |-C^2%[0.86]<4>{AD 550}/42/13/9
 | | | | | | | |-C^3%[0.82]<4>{AD 850}/59/13/10
 | |-Ex-153[0.93]<4>{AD 500}/32/13/9
 | | |-33*[0.90]<5>{AD 850}/47/32/9
 | | | |-365%[0.89]<5>{AD 1150}/32/32/8
 | | | | |-1506%[0.93]<5>{AD 1320}/4/32/2
 | |-Ex-150[0.85]<5>{AD 550}/72/32/11
 | | |-1739^c[0.99]<6>{AD 950}/5/72/4
 | | | |-1739*[0.97]<6>{AD 900}/15/72/5
 | | | | |-0121%[0.89]<6>{AD 950}/3/72/3

a

a

|-0243*% [0.94] <6> {AD 950} /7/72/5
|-0243^c% [0.93] <6> {AD 1000} /9/72/7
|-630% [0.91] <6> {AD 1300} /27/72/7
|-Ex-147 [0.81] <6> {AD 600} /88/72/9
 |-1881^c [0.99] <7> {AD 1400} /3/88/3
 |-1881* [0.99] <7> {AD 1350} /4/88/5
 |-P^68% [1.00] <7> {AD 650} /0/88/1

Appendix D

List of Autographic Readings

The Book of 1 Corinthians

This appendix contains the list of autographic readings for the Greek text of the Book of 1 Corinthians as determined by the genealogical method described in this book. The list contains the index of each place of variation (variation unit), the associated reference, the Greek reading at that place, and the probability that the reading is autographic.

1.1	1:1,1.1	°κλητος	1
2.1	1:1,2.1	°Χριστου Ίησου ^Τ	0.67
3.1	1:2,1.1	°τη ουση εν Λορινθω ηγιασμενοις εν Χριστω Ίησου ^Τ	1
4.1	1:2,2.1	°ομιτ	0.5
5.1	1:4,1.1	°μου	1
6.1	1:6,1.1	°Χριστου	1
7.1	1:8,1.1	°ως τελους	1
8.1	1:8,2.1	°ημερα	1
9.1	1:8,3.1	°Χριστου	1
10.1	1:9,1.1	°δι'	1
11.1	1:10,1.1	°σχιματα	1
12.1	1:11,1.1	°μου	1
13.1	1:13,1.1	°ομιτ	1
14.1	1:13,2.1	°μη	1
15.1	1:13,3.1	°υπερ	1
16.1	1:14,1.1	°τω θεω	0.67
17.1	1:15,1.1	°εβαπτισθητε	1
18.1	1:16,1.1	°αλλον	1
19.1	1:17,1.1	°ομιτ	1
20.1	1:17,2.1	°εὐαγγελιζεσθαι	1
21.1	1:17,3.1	°λογου	1
22.1	1:18,1.1	°ο	1
23.1	1:18,2.1	°μεν	1
24.1	1:18,3.1	°ημιν	1
25.1	1:20,1.1	°ομιτ	0.5
26.1	1:22,1.1	°και	1
27.1	1:23,1.1	°εθνεσιν	1
28.1	1:24,1.1	°Χριστον θεου δυναμιν και θεου σοφιαν	1
29.1	1:26,1.1	°γαρ	1
30.2	1:28,1.2	και	0.67
31.2	1:29,1.2	αυτου	0.67
32.1	1:30,1.1	°δικαιοσυνη τε	1
33.1	2:1,1.1	°μυστηριον	0.67
34.2	2:2,1.2	2 1	1
35.1	2:4,1.1	°πειθοις σοφιας λογοις	0.5
36.1	2:4,2.1	°ἀποδειξει	1
37.1	2:8,1.1	°εγνωκεν	1
38.1	2:8,2.1	°ομιτ	1
39.1	2:9,1.1	°α	1

40.1	2:10,1.1	δε	1
41.2	2:10,2.2	αυτου	0.67
42.1	2:11,1.1	ανθρωπων	1
43.1	2:11,2.1	το πνευμα του ανθρωπου	1
44.1	2:12,1.1	ομιτ	1
45.1	2:12,2.1	ειδωμεν	1
46.1	2:13,1.1	ομιτ	1
47.1	2:13,2.1	πνευματικοις	1
48.1	2:14,1.1	του θεου	1
49.1	2:15,1.1	τα παντα	0.5
50.1	2:16,1.1	Χριστου	1
51.1	3:1,1.1	σαρκινοις	1
52.1	3:2,1.1	ετι	1
53.1	3:3,1.1	σαρκικοι	1
54.1	3:3,2.1	ομιτ	1
55.1	3:3,3.1	σαρκικοι	1
56.1	3:4,1.1	ουκ ανθρωποι	0.5
57.1	3:4,2.1	ομιτ	1
58.1	3:5,1.1	Υι	0.67
59.1	3:5,2.1	τι	0.67
60.1	3:5,3.1	Απολλως τι δε εστιν Θαυλος	1
61.1	3:5,4.1	ομιτ	1
62.1	3:10,1.1	του θεου	1
63.1	3:10,2.1	εθηκα	0.5
64.2	3:12,1.2	τουτον	0.67
65.1	3:12,2.1	χρυσον αργυρον	1
66.1	3:13,1.1	εκαστου το εργον φανερον γενησεται	1
67.2	3:13,2.2	ομιτ	0.67
68.1	3:14,1.1	μενει	1
69.1	3:16,1.1	οικει εν υμιν	1
70.1	3:17,1.1	φθερει	1
71.1	3:17,2.1	τουτον	1
72.1	3:18,1.1	ομιτ	1
73.1	3:20,1.1	σοφων	1
74.1	4:2,1.1	ωδε	1
75.1	4:2,2.1	ζητειται	0.67
76.1	4:5,1.1	ος	1
77.1	4:6,1.1	α	0.67
78.1	4:6,2.1	ομιτ	0.67

79.1	4:9,1.1	τ ομιτ	0.67
80.1	4:10,1.1	ϚΧριστω	1
81.1	4:11,1.1	Ϛγυμνιτευομεν	1
82.1	4:13,1.1	Ϛδυσφημουμενοι	0.5
83.1	4:13,2.1	Ϛως περικαθαρματα	1
84.2	4:14,1.2	—θετω	1
85.1	4:15,1.1	ογαρ	1
86.1	4:15,2.1	οϚησου	1
87.1	4:16,1.1	τ ομιτ	1
88.1	4:17,1.1	τ ομιτ	1
89.1	4:17,2.1	ϚΧριστω Ϛησου	1
90.1	5:1,1.1	τ ομιτ	0.67
91.1	5:2,1.1	Ϛαρθη	1
92.1	5:2,2.1	Ϛπραξας	1
93.1	5:3,1.1	τ ομιτ	1
94.1	5:4,1.1	Ϛημων Ϛησου	1
95.1	5:4,2.1	Ϛημων Ϛησου	1
96.1	5:5,1.1	τ ομιτ	0.33
97.1	5:6,1.1	οΠυ	1
98.1	5:6,2.1	Ϛζυμοι	1
99.1	5:7,1.1	τ ομιτ	0.67
100.1	5:7,2.1	τ ομιτ	0.67
101.1	5:8,1.1	Ϛμηδε	1
102.1	5:8,2.1	Ϛπονηριας	1
103.1	5:9,1.1	Ϛσυναναμιγνυσθαι	1
104.1	5:10,1.1	τ ομιτ	0.67
105.2	5:10,2.2	η	0.67
106.1	5:10,3.1	Ϛωφειλετε	1
107.1	5:11,1.1	Ϛνυν	1
108.1	5:11,2.1	Ϛη	0.67
109.1	5:12,1.1	τ ομιτ	1
110.1	5:12,2.1	Ϛουχι τους εσω υμεις κρινετε	1
111.1	5:13,1.1	Ϛκρινει	1
112.1	5:13,2.1	Ϛεξαρατε	1
113.1	6:1,1.1	τ ομιτ	1
114.1	6:2,1.1	οη	1
115.1	6:2,2.1	Ϛκρινουσιν	0.67
116.1	6:5,1.1	Ϛλεγω	1
117.1	6:5,2.1	Ϛενι	1

118.1	6:5,3.1	οὐδεις σοφος	1
119.1	6:5,4.1	† ομιτ	1
120.1	6:7,1.1	ουον	1
121.1	6:7,2.1	κριματα	1
122.1	6:8,1.1	τουτο	1
123.1	6:10,1.1	ου	0.67
124.1	6:10,2.1	† ομιτ	1
125.1	6:11,1.1	Ιησου Χριστου	0.67
126.1	6:14,1.1	εξεγερει	0.67
127.1	6:15,1.1	† ομιτ	1
128.1	6:15,2.1	υμων	1
129.1	6:15,3.1	φαρας	1
130.1	6:16,1.1	ουη	1
131.1	6:19,1.1	το σωμα	1
132.1	6:19,2.1	αγιου πνευματος†	1
133.1	6:20,1.1	δη	1
134.1	6:20,2.1	† ομιτ	1
135.1	7:1,1.1	† ομιτ	0.67
136.1	7:2,1.1	τας πορνειας	0.67
137.1	7:2,2.1	και εκαστη τον ιδιον ανδρα εχετω	1
138.1	7:3,1.1	οφειλην	1
139.1	7:5,1.1	ουαν	1
140.1	7:5,2.1	† ομιτ	0.67
141.1	7:5,3.1	ητε	0.67
142.1	7:5,4.1	ουμων	1
143.1	7:7,1.1	δε	0.67
144.1	7:7,2.1	ο	0.5
145.1	7:7,3.1	ο	0.5
146.1	7:9,1.1	γαμησαι	1
147.1	7:10,1.1	χωρισθηναι	1
148.1	7:13,1.1	ει τις	0.67
149.1	7:13,2.1	ουτος	1
150.1	7:13,3.1	συνευδοκει	1
151.1	7:13,4.1	τον ανδρα	0.67
152.1	7:14,1.1	† ομιτ	0.67
153.1	7:14,2.1	αδελφω	0.33
154.2	7:15,1.2	ημ—	1
155.1	7:17,1.1	Ει	1
156.1	7:17,2.1	εμερισεν	0.5

157.1	7:17,3.1	Ἦκυριος	1
158.1	7:17,4.1	Ἦθεος	1
159.1	7:17,5.1	Ἦδιατασσομαι	0.67
160.1	7:18,1.1	Ἦκεκληται τις	1
161.1	7:20,1.1	Ἦομιτ	1
162.1	7:21,1.1	Ἦκαι	1
163.1	7:22,1.1	Ἦομιτ	0.67
164.1	7:24,1.1	Ἦπαρα θεω	1
165.1	7:28,1.1	Ἦγαμησης	1
166.1	7:28,2.1	Ἦη	1
167.1	7:29,1.1	Ἦομιτ	1
168.1	7:29,2.1	Ἦτο	1
169.1	7:31,1.1	Ἦτον κοσμον	0.5
170.1	7:31,2.1	Ἦκαταχρωμενοι	0.67
171.1	7:32,1.1	Ἦκυριω	0.67
172.1	7:34,1.1	Ἦκαι μεμερισται και	1
173.4	7:34,2.4	1-5 1 2	0.67
174.1	7:34,3.1	Ἦκαι	1
175.1	7:34,4.1	Ἦτα του κοσμου	1
176.1	7:35,1.1	Ἦαυτων	0.67
177.1	7:35,2.1	Ἦσυμφορον	0.67
178.1	7:35,3.1	Ἦἄπερισπαστως	1
179.1	7:36,1.1	Ἦγαμειτωσαν	1
180.1	7:37,1.1	Ἦεν τη καρδια αυτου εδραιος	0.67
181.1	7:37,2.1	Ἦεν	1
182.1	7:38,1.1	Ἦγαμιζων	0.5
183.1	7:38,2.1	Ἦτην εαυτου παρθενον	1
184.1	7:38,3.1	Ἦποιει	1
185.1	7:38,4.1	Ἦγαμιζων	0.5
186.1	7:39,1.1	Ἦομιτ	0.67
187.1	7:39,2.1	Ἦομιτ	1
188.1	7:39,3.1	Ἦκοιμηθη	1
189.1	7:40,1.1	Ἦμακαριωτερα	1
190.1	7:40,2.1	Ἦδε	1
191.1	7:40,3.1	Ἦθεου	1
192.1	7:40,4.1	Ἦεχειν	1
193.1	8:1,1.1	Ἦομιτ	1
194.1	8:2,1.1	Ἦομιτ	1
195.1	8:2,2.1	Ἦἔγνωκεναι	0.67

196.1	8:2,3.1	οτι	1
197.1	8:2,4.1	ουπω	1
198.1	8:3,1.1	τον θεον	1
199.1	8:3,2.1	υπ' αυτου	1
200.1	8:4,1.1	ομιτ	0.67
201.1	8:6,1.1	αλλ'	1
202.1	8:6,2.1	ου	1
203.1	8:6,3.1	ομιτ	1
204.2	8:7,1.2	συνειδησει	0.67
205.1	8:7,2.1	ασθειας ουσα	1
206.1	8:8,1.1	ημας	1
207.2	8:8,2.2	παριστησι	0.67
208.2	8:8,3.2	6-9 1-5	1
209.1	8:10,1.1	οσε	0.67
210.3	8:11,1.3	και απ.	0.67
211.1	8:11,2.1	εν τη ση γνωσει ο αδελφος	1
212.1	8:12,1.1	ασθενουσαν	1
213.1	8:13,1.1	μου	1
214.1	8:13,2.1	μου	1
215.1	9:1,1.1	ελευθερος οκ ειμι αποστολος ^F	1
216.1	9:2,1.1	μου της	1
217.1	9:5,1.1	αδελφην γυναικα	1
218.2	9:7,1.2	εκ του —που	0.67
219.1	9:7,2.1	οη	0.67
220.1	9:8,1.1	ταυτα λαλω	0.67
221.1	9:9,1.1	εν γαρ τω Νωυσεως νομω γεγραπται	1
222.2	9:9,2.2	φιμω—	1
223.1	9:10,1.1	επ' ελπιδι του μετεχειν	0.67
224.1	9:12,1.1	εγκοπην	0.67
225.1	9:13,1.1	οτα	1
226.1	9:13,2.1	παρεδρευοντες	0.5
227.4	9:15,1.4	ινα τις κενωσ	0.67
228.1	9:16,1.1	καυχημα	1
229.2	9:16,2.2	ζωμαι	0.67
230.1	9:17,1.1	ομιτ	1
231.1	9:18,1.1	μου εστιν	0.67
232.1	9:18,2.1	ομιτ	1
233.1	9:20,1.1	οως	1
234.1	9:20,2.1	μη ων αυτος υπο νομον	1

235.1	9:21,1.1	Γθεου	1
236.1	9:21,2.1	ΓΧριστου	1
237.1	9:21,3.1	Κερδανω	0.5
238.1	9:21,4.1	οτους	0.5
239.1	9:22,1.1	Τ ομιτ	0.67
240.1	9:22,2.1	παντως τινας	0.67
241.1	9:23,1.1	παντα	1
242.1	9:25,1.1	οουν	1
243.1	10:2,1.1	εβαπτιθησαν	1
244.1	10:3,1.1	το αυτο	1
245.1	10:4,1.1	οαυτο	1
246.1	10:4,2.1	πετρα δεΤ	1
247.1	10:5,1.1	ο θεος	1
248.1	10:8,1.1	Τ ομιτ	0.67
249.1	10:8,2.1	τρεις	1
250.1	10:9,1.1	Χριστον	0.67
251.1	10:9,2.1	επειρασαν	1
252.1	10:9,3.1	απωλλυτο	1
253.1	10:10,1.1	γογγυζετε	1
254.1	10:10,2.1	καθαπερ	1
255.3	10:11,1.3	ταυ. δε παν.	0.67
256.1	10:11,2.1	τυπικως συνεβαινεν	1
257.1	10:13,1.1	ουκ ειληφεν	0.67
258.1	10:13,2.1	εασει	1
259.1	10:13,3.1	υμας πειρασθηαιΤ	1
260.1	10:13,4.1	Τ ομιτ	0.5
261.1	10:16,1.1	ελογιας	1
262.2	10:16,2.2	2-5 1	0.67
263.1	10:17,1.1	Τ ομιτ	0.67
264.2	10:18,1.2	ουχι	1
265.1	10:19,1.1	τι εστιν	0.67
266.1	10:19,2.1	η οτι ειδωλον τι εστιν	0.67
267.1	10:19,3.1	τι εστιν	0.67
268.2	10:20,1.2	θ. τα εθνη	1
269.1	10:20,2.1	και ου θεω θυουσιν	0.67
270.1	10:20,3.1	κοινωνους των δαιμονιων	1
271.1	10:23,1.1	Τ ομιτ	0.67
272.1	10:23,2.1	Τ ομιτ	0.67
273.1	10:24,1.1	Τ ομιτ	1

274.1	10:27,1.1	ῥ ομιτ	0.67
275.1	10:27,2.1	ῥπαν το παρατιθεμενον	1
276.1	10:28,1.1	ῥιεροθυτον	0.67
277.1	10:28,2.1	ῥτον μηνυσαντα και την συνειδησινῥ	1
278.1	10:28,3.1	ῥ ομιτ	1
279.1	10:29,1.1	ῥαλλης	1
280.1	10:31,1.1	ῥποιειτε	1
281.2	10:33,1.2	—φερον	0.67
282.1	11:2,1.1	ῥ ομιτ	0.67
283.1	11:2,2.1	ῥ ομιτ	1
284.1	11:3,1.1	ῥο	1
285.1	11:5,1.1	ῥαυτης	1
286.1	11:9,1.1	ῥανδρα	1
287.1	11:10,1.1	ῥεξουσιαν	1
288.1	11:14,1.1	ῥ ομιτ	1
289.1	11:15,1.1	ῥαυτη	0.67
290.2	11:17,1.2	—λλω	0.67
291.2	11:17,2.2	ῥων	0.67
292.1	11:19,1.1	ῥεν υμιν	0.67
293.2	11:19,2.2	ῥ ομιτ	1
294.1	11:19,3.1	ῥεν υμιν	1
295.1	11:20,1.1	ῥουν	1
296.1	11:22,1.1	ῥεπαινεσω	0.67
297.1	11:22,2.1	ῥυμας	1
298.1	11:23,1.1	ῥαπο του κυριου	0.67
299.1	11:23,2.1	ῥῆησους	1
300.1	11:23,3.1	ῥ ομιτ	1
301.1	11:24,1.1	ῥ ομιτ	1
302.1	11:24,2.1	ῥμου εστινῥ	0.67
303.1	11:24,3.1	ῥτο	1
304.1	11:24,4.1	ῥ ομιτ	0.5
305.1	11:25,1.1	ῥεμω αιματι	1
306.1	11:26,1.1	ῥ ομιτ	0.67
307.1	11:27,1.1	ῥ ομιτ	1
308.1	11:27,2.1	ῥ ομιτ	1
309.2	11:29,1.2	ῥαναξιως	0.67
310.2	11:29,2.2	του κυριου	0.67
311.1	11:31,1.1	ῥδε	0.5
312.1	11:32,1.1	ῥτου	1

313.1	11:34,1.1	τ ομιτ	0.67
314.1	12:2,1.1	᾿στι οτε	1
315.1	12:2,2.1	Γαφωνα	1
316.1	12:2,3.1	᾿ως αν ηγεσθε	0.67
317.1	12:3,1.1	ολαλων	1
318.1	12:3,2.1	᾿ Ἀναθεμα Ἰησους	0.67
319.1	12:3,3.1	᾿ Λυριος Ἰησους	1
320.1	12:6,1.1	᾿ο δε	1
321.1	12:6,2.1	᾿θεος ο ἐνεργων	0.67
322.1	12:9,1.1	τ ομιτ	0.67
323.1	12:9,2.1	Γχαρισματα	0.67
324.1	12:9,3.1	Ἔνι	0.67
325.1	12:10,1.1	᾿εργηματα δυναμεων	1
326.1	12:10,2.1	οδε	0.67
327.1	12:10,3.1	οδε	0.67
328.1	12:10,4.1	Γδιακρισεις	0.67
329.1	12:10,5.1	τ ομιτ	0.67
330.1	12:10,6.1	Ἐρμηνεια	1
331.1	12:11,1.1	οἶδια	0.67
332.1	12:12,1.1	τ ομιτ	0.67
333.1	12:13,1.1	τ ομιτ	1
334.1	12:13,2.1	᾿πνευμα ἐποτισθημεν	1
335.1	12:18,1.1	Γνυι	1
336.1	12:19,1.1	οτα	1
337.1	12:20,1.1	ομεν	1
338.1	12:21,1.1	οδε	0.67
339.1	12:24,1.1	τ ομιτ	1
340.1	12:24,2.1	Γυστερουμενω	0.5
341.1	12:25,1.1	Γσχισμα	0.67
342.1	12:26,1.1	Ἔειτε	0.67
343.1	12:26,2.1	οεν	0.67
344.1	12:27,1.1	Γμερους	1
345.1	12:31,1.1	Γμειζονα	0.67
346.1	12:31,2.1	Ἔετι	1
347.1	13:2,1.1	Γμεθισταναι	0.5
348.1	13:3,1.1	Γκαυησωμαι	0.67
349.1	13:4,1.1	Ἐη ἀγαπη	0.67
350.1	13:5,1.1	᾿σχημονει	1
351.1	13:5,2.1	Ἔτα	1

352.2	13:8,1.2	εκπιπ—	0.67
353.1	13:8,2.1	᾿προφητεῖαι καταργηθῶσονται	1
354.1	13:8,3.1	᾿γνωσις καταργηθῶσεται	1
355.1	13:10,1.1	᾿ομιτ	1
356.1	13:11,1.1	᾿ομιτ	0.67
357.1	13:12,1.1	᾿δι᾿ ἔσοπτρου	1
358.1	13:13,1.1	᾿πιστις ἔλπις ἀγάπη τα τρια ταυτα [᾿]	1
359.1	14:2,1.1	᾿ομιτ	0.5
360.1	14:2,2.1	᾿πνευματι	1
361.1	14:4,1.1	᾿ομιτ	1
362.1	14:5,1.1	᾿διερμηνευη	1
363.1	14:6,1.1	᾿εν	1
364.1	14:7,1.1	᾿τοις φθογοις	1
365.1	14:8,1.1	᾿σαπιγξ φωνην [᾿]	0.67
366.1	14:10,1.1	᾿ομιτ	0.67
367.1	14:11,1.1	᾿εν	0.67
368.1	14:12,1.1	᾿πνευματων	1
369.1	14:12,2.1	᾿περισσευητε	1
370.1	14:13,1.1	᾿Διο	0.5
371.1	14:14,1.1	᾿γαρ	1
372.1	14:15,1.1	᾿προσευξομαι	1
373.1	14:15,2.1	᾿προσευξομαι	1
374.1	14:15,3.1	᾿δε	0.67
375.1	14:16,1.1	᾿εὐλογης	1
376.1	14:16,2.1	᾿εν	0.5
377.1	14:18,1.1	᾿ομιτ	0.67
378.2	14:18,2.2	—ση	1
379.1	14:18,3.1	᾿λαλω	1
380.1	14:19,1.1	᾿τω νοι μου	1
381.1	14:21,1.1	᾿εν	1
382.1	14:21,2.1	᾿ετερων	0.67
383.1	14:23,1.1	᾿συνελθη	1
384.1	14:25,1.1	᾿ομιτ	1
385.1	14:25,2.1	᾿καρδιας	1
386.1	14:25,3.1	᾿ο	1
387.2	14:26,1.2	᾿υμων	0.67
388.1	14:28,1.1	᾿διερμηνευτης	1
389.1	14:31,1.1	᾿παντες	1
390.1	14:32,1.1	᾿πνευματα	1

391.1	14:33,1.1	ὁ θεος	1
392.1	14:34,1.1	αἱ γυναῖκες	1
393.1	14:34,2.1	Ἦ ἐν ταῖς ἐκκλησίαις σιγατώσαν οὐ γαρ	1
394.1	14:34,3.1	Ἔπιτρεπεται	1
395.1	14:34,4.1	Ἐυποτασσεσθώσαν	0.67
396.1	14:34,5.1	Ἦ ομιτ	1
397.1	14:34,6.1	Ἔμαθειν	1
398.1	14:34,7.1	Ὁ ἐστιν	1
399.1	14:37,1.1	Ὁ κυρίου ἐστιν ἐντολή	0.67
400.1	14:38,1.1	Ἔγνωεῖται	0.67
401.2	14:39,1.2	Ὁ ομιτ	1
402.1	14:39,2.1	Ὁ το	1
403.2	14:39,3.2	3 1 2	0.67
404.1	14:40,1.1	Ἦ ομιτ	1
405.1	15:2,1.1	εἰ κατεχετε	1
406.1	15:3,1.1	Ὁ και παρελαβον	1
407.1	15:5,1.1	Ἔεῖτα	0.67
408.1	15:5,2.1	Ἐδώδεκα	0.67
409.1	15:6,1.1	Ἦ ομιτ	0.67
410.1	15:7,1.1	Ἔεῖτα	0.5
411.1	15:10,1.1	Ὁ οὐ κειη ἐγεινηθη	1
412.1	15:10,2.1	Ὁ η	0.67
413.1	15:12,1.1	Ὁ οτι ἐκ νεκρων Ἦ	1
414.2	15:14,1.2	Ὁ ομιτ	1
415.1	15:14,2.1	Ἔυμων	1
416.1	15:15,1.1	Ὁ εἰπερ ἀρα νεκροι οὐκ ἐγειρονται	1
417.1	15:17,1.1	Ἦ ομιτ	1
418.1	15:20,1.1	Ἦ ομιτ	1
419.1	15:24,1.1	Ἔπαραδιδω	0.67
420.1	15:25,1.1	Ἦ ομιτ	1
421.1	15:27,1.1	Ὁ οτι	0.67
422.1	15:28,1.1	Ὁ και	1
423.1	15:28,2.1	Ὁ ο υιος	1
424.1	15:28,3.1	Ὁ τα	0.5
425.1	15:29,1.1	Ἔαὐτων	1
426.1	15:31,1.1	Ἔυμετεραν	1
427.1	15:31,2.1	Ὁ ἀδελφοι	1
428.1	15:31,3.1	Ὁ Χριστω Ἰησου τω κυριω ημων	1
429.1	15:34,1.1	Ἔλαλω	1

430.1	15:37,1.1	Γγενησομενον	1
431.1	15:45,1.1	Οανθρωπος	1
432.1	15:45,2.1	Ο'Αδαμ	1
433.1	15:47,1.1	Γανθρωπος	0.67
434.1	15:47,2.1	Τ ομιτ	0.67
435.2	15:49,1.2	—σωμεν	1
436.1	15:50,1.1	Γδε	1
437.2	15:50,2.2	κλ. ου —ανται	1
438.1	15:51,1.1	Τ ομιτ	1
439.2	15:51,2.2	μεν	1
440.1	15:51,3.1	Οου κοιμηθησομεθα παντες δε	0.67
441.1	15:52,1.1	Γριπη	1
442.1	15:52,2.1	Εγερθησονται	1
443.1	15:54,1.1	το φθαρτον τουτο ενδυσηται αφθαρσιαν και το θνητον τουτο ενδυσηται Τ αθανασιαν	0.67
444.1	15:54,2.1	Γνικος	1
445.1	15:54,3.1	Ενικος που σου θανατε το κεντρον	0.67
446.1	15:54,4.1	Γνικος	1
447.1	16:2,1.1	Γσαββατου	0.67
448.1	16:2,2.1	Ευοδωται	0.5
449.1	16:3,1.1	Εαν δοκιμασητε	1
450.1	16:4,1.1	Ξαξιον ηΤ	1
451.1	16:6,1.1	Οδε	1
452.1	16:6,2.1	Γπαραμενω	1
453.1	16:6,3.1	η και	1
454.1	16:7,1.1	Γγαρ	1
455.1	16:8,1.1	Επιμενω	1
456.1	16:10,1.1	Γκαγω	1
457.1	16:12,1.1	Τ ομιτ	1
458.1	16:15,1.1	Τ ομιτ	0.67
459.1	16:15,2.1	Γ'Αχαιας	1
460.2	16:17,1.2	υμων	1
461.1	16:17,2.1	Εουτοι	0.67
462.1	16:19,1.1	Ασπαζονται υμας	1
463.1	16:19,2.1	και εκκλησιαι της 'Ασιας	1
464.1	16:19,3.1	Γασπαζεται υμας	1
465.1	16:19,4.1	Εθρισκα	0.67
466.1	16:19,5.1	Τ ομιτ	1
467.1	16:22,1.1	μαρανα θα	1

468.2	16:23,1.2	Χριστου	0.67
469.2	16:24,1.2	αμην	1

Appendix E

List of the Places the Lachmann-10 Text

Differs from the NA-27 Text

for the Book of 1 Corinthians

1:28,1.2	At NA-27 =>	^τ ομιτ	insert =>	και	[0.67]
1:29,1.2	Replace NA-27 =>	‘του θεου	with =>	αυτου	[0.67]
2:2,1.2	Replace NA-27 =>	‘τι ειδεναι	with =>	2 1	[1.00]
2:10,2.2	At NA-27 =>	^τ ομιτ	insert =>	αυτου	[0.67]
3:12,1.2	At NA-27 =>	^τ ομιτ	insert =>	τουτον	[0.67]
3:13,2.2	Omit NA-27 =>	ο αυτο			[0.67]
4:14,1.2	Replace NA-27 =>	‘νουθετων	with =>	—θετω	[1.00]
5:10,2.2	Replace NA-27 =>	‘και	with =>	ἢ	[0.67]
7:15,1.2	Replace NA-27 =>	‘υμας	with =>	ημ—	[1.00]
7:34,2.4	Replace NA-27 =>	‘η αγαμος και η παρθενος	with =>	1-5 1 2	[0.67]
8:7,1.2	Replace NA-27 =>	‘συνηθεια	with =>	συνειδησει	[0.67]
8:8,2.2	Replace NA-27 =>	‘παραστησει	with =>	παριστησι	[0.67]
8:8,3.2	Replace NA-27 =>	‘ουτε εαν μη φαγωμεν υστερ ουμεθα ουτε εαν φαγωμεν πε ρισσεουμεν	with =>	6-9 1-5	[1.00]
8:11,1.3	Replace NA-27 =>	‘απολλυται γαρ	with =>	και απ.	[0.67]
9:7,1.2	Replace NA-27 =>	‘τον καρπον	with =>	εκ του —που	[0.67]
9:9,2.2	Replace NA-27 =>	‘κημωσεις	with =>	φιμω—	[1.00]
9:15,1.4	Replace NA-27 =>	‘ουδεις κενωσει	with =>	ινα τις κενωσ	[0.67]
9:16,2.2	Replace NA-27 =>	‘ευαγγελισωμαι	with =>	—ζωμαι	[0.67]
10:11,1.3	Replace NA-27 =>	‘ταυτα δε	with =>	ταυ. δε παν.	[0.67]
10:16,2.2	Transpose NA-27 =>	‘εστιν του αιματος του Χριδ του ^τ	to =>	2-5 1	[0.67]
10:18,1.2	Replace NA-27 =>	‘ουχ	with =>	ουχι	[1.00]
10:20,1.2	Replace NA-27 =>	‘θυουσιν	with =>	θ. τα εθνη	[1.00]
10:33,1.2	Replace NA-27 =>	‘συμφορον	with =>	—φερον	[0.67]
11:17,1.2	Replace NA-27 =>	‘παραγγελων	with =>	—λλω	[0.67]
11:17,2.2	Replace NA-27 =>	‘επαινω	with =>	ων	[0.67]
11:19,2.2	Omit NA-27 =>	οκαι			[1.00]
11:29,1.2	At NA-27 =>	^τ ομιτ	insert =>	αναξιως	[0.67]
11:29,2.2	At NA-27 =>	^τ ομιτ	insert =>	του κυριου	[0.67]
13:8,1.2	Replace NA-27 =>	‘πιπτει	with =>	εκπιπ—	[0.67]
14:18,2.2	Replace NA-27 =>	‘γλωσσαις	with =>	—σση	[1.00]
14:26,1.2	At NA-27 =>	^τ ομιτ	insert =>	υμων	[0.67]
14:39,1.2	Omit NA-27 =>	ομου			[1.00]
14:39,3.2	Replace NA-27 =>	‘μη κωλυετε γλωσσαις	with =>	3 1 2	[0.67]
15:14,1.2	Omit NA-27 =>	οκαι			[1.00]
15:49,1.2	Replace NA-27 =>	‘φορεσομεν	with =>	—σωμεν	[1.00]
15:50,2.2	Replace NA-27 =>	‘κληρονομησαι ου δυναται	with =>	κλ. ου —ανται	[1.00]
15:51,2.2	At NA-27 =>	^τ ομιτ	insert =>	μεν	[1.00]
16:17,1.2	Replace NA-27 =>	‘υμετερον	with =>	υμων	[1.00]

16:23,1.2	At NA-27 =>	^τ ομτ	insert =>	Χριστου	[0.67]
16:24,1.2	At NA-27 =>	^τ ομτ	insert =>	αμην	[1.00]

Appendix F

Places Where the Non-Autographic Variants Were Initiated

Only Once in the Textual History of 1 Corinthians

Arranged in Order by Reference

This appendix lists the place in the genealogical history of the text of the Book of 1 Corinthians where each non-original textual variant was first initiated, arranged in order by reference. For each variant, the table lists (1) the place of variation in the text where the variation occurred, (2) the associated reference, (3) the exemplar or extant witness in which the variant was initiated, and (4) the text of the variant. For example, the following line means:

41.1	2:10,2.1	Ex-165#	^τ ομῖτ
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- (1) 41.1 refers to the first variant at variation unit 41.
- (2) 2:10,2.1 is the reference where this place of variation occurs: chapter 2, verse 10, the second place of variation in this verse, the first variant there.
- (3) This variant was initiated in exemplar Ex-165#.
- (4) The variant reads: ομῖτ (omit)
- (5) Since the variant was first initiated in an exemplar, one can presume that the variant was inherited by all of the descendants of that exemplar (Ex-165#) unless otherwise altered in one of its subsequent branches.

The following line means:

5.3	1:4,1.3	491	ημῶν
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- (1) 5.3 refers to the third variant at variation unit five.
- (2) 1:4,1.3 is the reference where this place of variation occurs: chapter 1, verse 4, the first place of variation in this verse, the third variant there.
- (3) This variant was initiated in terminal witness MS 491
- (4) The variant reads: ημῶν (our)

Since the variant was initiated in a terminal witness, it is a singularity with no inheritance.

The following line means:

7.3	1:8,1.3	Ex-169\$	τελειους
-----	---------	----------	----------

- (1) 7.3 refers to the third variant at variation unit seven.
- (2) 1:8,1.3 is the reference where this place of variation occurs: chapter 1, verse 8, the first place of variation in this verse, the third variant there.
- (3) This variant was initiated in exemplar Ex-173\$, a virtual exemplar, a source of mixture.
- (4) The variant reads: τελειους (completeness)

1.2	1:1,1.2	Ex-168\$	ο ομιτ
2.2	1:1,2.2	Ex-155#	2 1
3.2	1:2,1.2	Ex-168\$	5-8 1-4
4.2	1:2,2.2	Ex-172\$	τε
5.2	1:4,1.2	Ex-168\$	^α —
5.3	1:4,1.3	491	ημων
6.2	1:6,1.2	Ex-168\$	θεου
7.2	1:8,1.2	Ex-168\$	αχρι τ.
7.3	1:8,1.3	Ex-169\$	τελειους
8.2	1:8,2.2	Ex-168\$	παρουσια
9.2	1:8,3.2	Ex-164	ο ομιτ
10.2	1:9,1.2	Ex-168\$	υφ
11.2	1:10,1.2	Ex-168\$	—μα
12.2	1:11,1.2	Ex-169\$	ο ομιτ
13.2	1:13,1.2	Ex-168\$	μη
14.2	1:13,2.2	Ex-168\$	ἡ
15.2	1:13,3.2	Ex-168\$	περι
16.2	1:14,1.2	Ex-165#	^α —
16.3	1:14,1.3	Ex-169\$	τ. θ. μου
17.2	1:15,1.2	Ex-168\$	—τισα
17.3	1:15,1.3	104*%	—τισθη
18.2	1:16,1.2	Ex-160	ο ομιτ
19.2	1:17,1.2	Ex-168\$	ο
20.2	1:17,2.2	Ex-168\$	—ισασθαι
21.2	1:17,3.2	Ex-168\$	λογων
22.2	1:18,1.2	Ex-168\$	ο ομιτ
23.2	1:18,2.2	Ex-169\$	ο ομιτ
24.2	1:18,3.2	Ex-169\$	ο ομιτ
25.2	1:20,1.2	Ex-172\$	τουτου
26.2	1:22,1.2	Ex-168\$	ο ομιτ
27.2	1:23,1.2	Ex-168\$	Ελλησι
28.2	1:24,1.2	Ex-168\$	—στος θ. —μικ κ. θ. —ια
29.2	1:26,1.2	Ex-168\$	ουν
30.1	1:28,1.1	Ex-172\$	^τ ομιτ
31.1	1:29,1.1	Ex-172\$	΄του θεου
32.2	1:30,1.2	Ex-168\$	και δ.
33.2	2:1,1.2	Ex-172\$	^α μαρτυριον
34.1	2:2,1.1	Ex-168\$	΄τι ειδεναι
34.3	2:2,1.3	Ex-169\$	του ειδ.τι
34.4	2:2,1.4	044*	ιδειν τι
35.2	2:4,1.2	Ex-172\$	πειθοις ανθρωπινης σοφ. λ.

35.3	2:4,1.3	Ex-145	πειθοι ανθ. σοφ. λ.
35.4	2:4,1.4	131*	πειθοις ανθ. σοφ. και λ.
35.5	2:4,1.5	Ex-170\$	πειθοις σοφ.
36.2	2:4,2.2	Ex-168\$	αποκαλυψει
37.2	2:8,1.2	Ex-168\$	εγνω
38.2	2:8,2.2	Ex-168\$	αυτων
39.2	2:9,1.2	Ex-168\$	οσα
40.2	2:10,1.2	Ex-168\$	ο γαρ
41.1	2:10,2.1	Ex-165#	ομιτ
42.2	2:11,1.2	Ex-168\$	ο ομιτ
43.2	2:11,2.2	Ex-156	1 2
43.3	2:11,2.3	1505*%	—
44.2	2:12,1.2	Ex-168\$	τουτου
45.2	2:12,2.2	Ex-168\$	ιδωμεν
46.2	2:13,1.2	Ex-169\$	αγιου
47.2	2:13,2.2	Ex-168\$	—κως
48.2	2:14,1.2	Ex-168\$	ο ομιτ
49.2	2:15,1.2	Ex-172\$	ο μεν παντα
49.5	2:15,1.5	Ex-169\$	μεν τα παντα
50.2	2:16,1.2	Ex-172\$	κυριου
51.2	3:1,1.2	Ex-168\$	—ικους
52.2	3:2,1.2	Ex-164	ο ομιτ
53.2	3:3,1.2	Ex-168\$	—ινοι
54.2	3:3,2.2	Ex-169\$	και διχοστασιαι
55.2	3:3,3.2	Ex-168\$	—ινοι
56.2	3:4,1.2	Ex-168\$	ουχι ανθ.
56.3	3:4,1.3	Ex-155#	ουχι σαρκικοι
57.2	3:4,2.2	Ex-168\$	και κατα ανθρωπον περιπατειτε
58.2	3:5,1.2	Ex-172\$	τις
59.2	3:5,2.2	Ex-172\$	τις
60.2	3:5,3.2	Ex-169\$	Παυλ. Απ.
61.2	3:5,4.2	Ex-168\$	αλλ η
62.2	3:10,1.2	Ex-168\$	ο ομιτ
63.2	3:10,2.2	Ex-155#	τεθεικα
64.1	3:12,1.1	Ex-165#	ομιτ
65.2	3:12,2.2	Ex-169\$	ο —σιον, —ριον
65.3	3:12,2.3	Ex-170\$	—σον και —ρον
65.4	3:12,2.4	Ex-171\$	—σιον και —ριον
66.2	3:13,1.2	Ex-156	ο ποιησας τουτο το ερ. φανερος γενηται
67.1	3:13,2.1	Ex-165#	ο αυτο
68.2	3:14,1.2	Ex-168\$	μενει

69.2	3:16,1.2	Ex-168\$	2 1
70.2	3:17,1.2	Ex-168\$	φθειρει
71.2	3:17,2.2	Ex-168\$	αυτον
72.2	3:18,1.2	Ex-168\$	κεινους λογοις
73.2	3:20,1.2	Ex-168\$	ανθρωπων
74.2	4:2,1.2	Ex-169\$	ὃ δε
75.2	4:2,2.2	Ex-165#	—τε
76.2	4:5,1.2	Ex-168\$	ο ομιτ
77.2	4:6,1.2	Ex-166#	ο
78.2	4:6,2.2	Ex-155#	φρονειν
79.2	4:9,1.2	Ex-172\$	στι
80.2	4:10,1.2	P ¹¹ %	κυριω
81.2	4:11,1.2	Ex-169\$	γυμνητ—
82.2	4:13,1.2	Ex-172\$	βλασφ—
83.2	4:13,2.2	Ex-168\$	ωσπερι καθ.
84.1	4:14,1.1	Ex-168\$	Γνουθετων
85.2	4:15,1.2	Ex-168\$	ο ομιτ
86.2	4:15,2.2	Ex-168\$	ο ομιτ
87.2	4:16,1.2	Ex-168\$	καθως καγω Χριστου
88.2	4:17,1.2	Ex-161	^α αυτο
89.2	4:17,2.2	Ex-169\$	1
89.3	4:17,2.3	Ex-170\$	κυριω Ιησ.
90.2	5:1,1.2	Ex-155#	ονομαζεται
91.2	5:2,1.2	Ex-152	εξαρθη
92.2	5:2,2.2	Ex-168\$	ποιησας
93.2	5:3,1.2	Ex-169\$	ως
94.2	5:4,1.2	Ex-168\$	^α 2
94.3	5:4,1.3	Ex-169\$	ημ. Ιησ. Χριστου
94.4	5:4,1.4	Ex-170\$	Ιησ. Χρ.
95.2	5:4,2.2	Ex-168\$	2
95.3	5:4,2.3	Ex-153	—
96.2	5:5,1.2	Ex-172\$	Ιησου
96.3	5:5,1.3	Ex-166#	Ιησ. Χριστου
96.4	5:5,1.4	Ex-168\$	ημων Ιησ. Χρ.
97.2	5:6,1.2	Ex-168\$	ο ομιτ
98.2	5:6,2.2	D06*	δολοι
98.3	5:6,2.3	Irlat ^a %	χορρυπιτ
99.2	5:7,1.2	Ex-172\$	ουν
100.2	5:7,2.2	Ex-155#	υπερ ημων
101.2	5:8,1.2	Ex-158	, μη
101.3	5:8,1.3	Ex-150	η

102.2	5:8,2.2	Ex-168\$	πορνειας
103.2	5:9,1.2	D06^1	—σθε
104.2	5:10,1.2	Ex-155#	και
105.1	5:10,2.1	Ex-172\$	ἴκαι
106.2	5:10,3.2	Ex-169\$	οφ—
107.2	5:11,1.2	Ex-169\$	νυνι
108.2	5:11,2.2	Ex-172\$	η
109.2	5:12,1.2	Ex-169\$	και
110.2	5:12,2.2	Ex-168\$	τους εσωθεν υμ. κρινατε
111.2	5:13,1.2	Ex-168\$	κρίνει
112.2	5:13,2.2	Ex-168\$	εξαιρετε
112.3	5:13,2.3	Ex-151	και εξαιρειτε
113.2	6:1,1.2	Ex-168\$	εξ
114.2	6:2,1.2	Ex-169\$	ο ομιτ
115.2	6:2,2.2	Ex-172\$	κρίνουσιν
116.2	6:5,1.2	Ex-158	λαλω
117.2	6:5,2.2	Ex-168\$	εστιν
118.2	6:5,3.2	Ex-168\$	2
118.3	6:5,3.3	Ex-151	σοφ. ουδε εις
119.2	6:5,4.2	Ex-168\$	και του αδελφου
120.2	6:7,1.2	Ex-169\$	ο ομιτ
121.2	6:7,2.2	Ex-168\$	κριμα
122.2	6:8,1.2	Ex-151	ταυτα
123.2	6:10,1.2	Ex-166#	ουτε
124.2	6:10,2.2	Ex-169\$	ου
125.2	6:11,1.2	Ex-169\$	1
125.3	6:11,1.3	Ex-166#	ημων Ιησ. Χρ.
126.2	6:14,1.2	Ex-166#	εξηγειρεν
126.3	6:14,1.3	Ex-169\$	εξεγειρει
127.2	6:15,1.2	Ex-172\$	η
128.2	6:15,2.2	Ex-161	ημ—
129.2	6:15,3.2	Ex-168\$	αρα
129.3	6:15,3.3	Ex-169\$	ἢ αρα
130.2	6:16,1.2	Ex-168\$	ο ομιτ
131.2	6:19,1.2	Ex-168\$	τα σωματα
132.2	6:19,2.2	Ex-168\$	2 1
133.2	6:20,1.2	Ex-168\$	αρατε
133.3	6:20,1.3	Ex-169\$	—
134.2	6:20,2.2	Ex-169\$	και εν τω πνευματι υμων, ατινα εστιν του θεου
135.2	7:1,1.2	Ex-166#	μου
136.2	7:2,1.2	Ex-166#	την —αν

137.2	7:2,2.2	Ex-168\$	□ ομιτ
138.2	7:3,1.2	Ex-151	οφειλομενην ευνοιαν
139.2	7:5,1.2	Ex-168\$	ο ομιτ
140.2	7:5,2.2	Ex-155#	νησθεια και τη
141.2	7:5,3.2	Ex-172\$	συνερχησθε
142.2	7:5,4.2	Ex-158	ο ομιτ
143.2	7:7,1.2	Ex-172\$	γαρ
144.2	7:7,2.2	Ex-172\$	ος
145.2	7:7,3.2	Ex-172\$	ος
146.2	7:9,1.2	Ex-169\$	^ γαμειν
147.2	7:10,1.2	Ex-168\$	—ιζεσθαι
147.3	7:10,1.3	Ex-169\$	—ιζεσθω
148.2	7:13,1.2	Ex-172\$	^ ητις
149.2	7:13,2.2	Ex-152	αυτος
150.2	7:13,3.2	Ex-168\$	ευδ—
151.2	7:13,4.2	Ex-172\$	αυτον
152.2	7:14,1.2	Ex-166#	τη πιστη
153.2	7:14,2.2	Ex-155#	ανδρι
153.3	7:14,2.3	Ex-166#	αν. τω πιστω
154.1	7:15,1.1	Ex-168\$	Γυμας
155.2	7:17,1.2	Ex-168\$	η
156.2	7:17,2.2	Ex-165#	^ μεμερικεν
157.2	7:17,3.2	Ex-151	θεος
157.3	7:17,3.3	Ex-169\$	θεος
158.2	7:17,4.2	Ex-151	κυριος
158.3	7:17,4.3	Ex-169\$	θεος
159.2	7:17,5.2	Ex-166#	διδασκω
160.2	7:18,1.2	Ex-168\$	2 1
160.3	7:18,1.3	Ex-151	τις εκληθη
161.2	7:20,1.2	Ex-168\$	εν
162.2	7:21,1.2	Ex-168\$	ο ομιτ
163.2	7:22,1.2	Ex-166#	και
163.3	7:22,1.3	Ex-169\$	δε και
164.2	7:24,1.2	309	□ ομιτ
165.2	7:28,1.2	Ex-168\$	λαβης γυναικα
166.2	7:28,2.2	Ex-168\$	ο ομιτ
167.2	7:29,1.2	Ex-168\$	οτι
168.2	7:29,2.2	Ex-168\$	ο ομιτ
169.2	7:31,1.2	Ex-168\$	τ. κ. τουτον
169.3	7:31,1.3	Ex-155#	τω —μω τουτω
170.2	7:31,2.2	L019*%	παραχρ—

170.3	7:31,2.3	Ex-166#	χρ—
171.2	7:32,1.2	Ex-166#	θεω
172.2	7:34,1.2	Ex-169\$	2 3
172.3	7:34,1.3	sy^p%	μεμ. δε
172.4	7:34,1.4	Ex-172\$	1 2
173.1	7:34,2.1	Ex-172\$	‘η αγαμος και η παρθενος
173.2	7:34,2.2	it-f*	3-5
173.3	7:34,2.3	Ex-168\$	3-5 1 2
174.2	7:34,3.2	Ex-168\$	ο ομιτ
175.2	7:34,4.2	Ex-168\$	□ ομιτ
176.2	7:35,1.2	Ex-172\$	ο ομιτ
177.2	7:35,2.2	Ex-155#	—φερον
178.2	7:35,3.2	P^15%	—στους ειναι
179.2	7:36,1.2	Ex-168\$	—ειτω
180.2	7:37,1.2	Ex-155#	5 1-3
180.3	7:37,1.3	Ex-169\$	1-4
181.2	7:37,2.2	P^15%	ο ομιτ
182.2	7:38,1.2	Ex-155#	εκγ—
183.2	7:38,2.2	Ex-168\$	τ. π. αυτ.
183.3	7:38,2.3	Ex-152	—
184.2	7:38,3.2	Ex-168\$	ποιησει
185.2	7:38,4.2	Ex-155#	εκγ—
186.2	7:39,1.2	Ex-155#	νομω
186.3	7:39,1.3	Ex-168\$	γαμω
187.2	7:39,2.2	Ex-169\$	και
188.2	7:39,3.2	Ex-168\$	αποθανη
189.2	7:40,1.2	Ex-168\$	μακαρια
190.2	7:40,2.2	Ex-168\$	γαρ
191.2	7:40,3.2	Ex-168\$	Χριστου
192.2	7:40,4.2	Ex-169\$	εχω
193.2	8:1,1.2	Ex-168\$	δε
194.2	8:2,1.2	Ex-151	δε
195.2	8:2,2.2	Ex-172\$	ειδεναι
195.3	8:2,2.3	326	ειναι
196.2	8:2,3.2	Ex-168\$	ο ομιτ
197.2	8:2,4.2	044*	ουδεπω
197.3	8:2,4.3	Ex-151	ουδεπω ουδεν
198.2	8:3,1.2	Ex-168\$	□ ομιτ
199.2	8:3,2.2	Ex-169\$	□ ομιτ
200.2	8:4,1.2	Ex-155#	ετερος
201.2	8:6,1.2	Ex-168\$	ο ομιτ

202.2	8:6,2.2	Ex-158	ον
203.2	8:6,3.2	Ex-168\$, και ἔν πνευμα αγιον, εν ω τα παντα και ημεις εν αυτω
204.1	8:7,1.1	Ex-165#	Ἔσυνηθεια
205.2	8:7,2.2	Ex-168\$	ασθενουσα
206.2	8:8,1.2	Ex-169\$	υμ—
207.1	8:8,2.1	Ex-165#	Ἔπαραστησει
208.1	8:8,3.1	Ex-168\$	Ἔουτε ἔαν μη φαγωμεν υστερουμεθα ουτε ἔαν φαγωμεν περισσευομεν
208.3	8:8,3.3	A*	1-4 9 6-8 5
209.2	8:10,1.2	Ex-166#	ο ομιτ
210.1	8:11,1.1	Ex-165#	Ἔαπολλυται γαρ
210.2	8:11,1.2	Ex-168\$	απ. ουν
210.4	8:11,1.4	Ex-172\$	και απολειται
211.2	8:11,2.2	Ex-168\$	αδ. εν τ. σ. γν.
211.3	8:11,2.3	Ex-169\$	αδ. επι τ. σ. γν.
212.2	8:12,1.2	Ex-168\$	ο ομιτ
213.2	8:13,1.2	Ex-168\$	ο ομιτ
214.2	8:13,2.2	Ex-168\$	ο ομιτ
215.2	9:1,1.2	Ex-169\$	4 2 3 1
216.2	9:2,1.2	Ex-168\$	της εμης
217.2	9:5,1.2	Ex-168\$	γυναικας
218.1	9:7,1.1	Ex-165#	Ἔτον καρπον
219.2	9:7,2.2	Ex-166#	ο ομιτ
220.2	9:8,1.2	Ex-168\$	λεγω
220.3	9:8,1.3	Ex-166#	τ. λεγω
221.2	9:9,1.2	Ex-168\$	1-3 5 6
221.3	9:9,1.3	Ex-169\$	γεγρ. γαρ
222.1	9:9,2.1	Ex-168\$	Ἔκημωσεις
223.2	9:10,1.2	Ex-172\$	της ελπιδος αυτου μετ. επ ελπ.
224.2	9:12,1.2	Ex-172\$	εκκ—
225.2	9:13,1.2	Ex-169\$	ο ομιτ
226.2	9:13,2.2	Ex-155#	προσεδ—
227.1	9:15,1.1	Ex-165#	Ἔουδεις κενωσει
227.2	9:15,1.2	Ex-168\$	ουθεις μη καινωσει
227.3	9:15,1.3	Ex-169\$	τις κεν—
228.2	9:16,1.2	Ex-168\$	χαρις
229.1	9:16,2.1	Ex-166#	Ἔευαγγελισωμαι
229.3	9:16,2.3	Ex-168\$	—ζομαι
230.2	9:17,1.2	1505*%	ουκ
231.2	9:18,1.2	Ex-172\$	μοι εσ.
231.3	9:18,1.3	Ex-170\$	εσται μοι
232.2	9:18,2.2	Ex-168\$	του Χριστου

233.2	9:20,1.2	Ex-169\$	◦ ομιτ
234.2	9:20,2.2	Ex-168\$	◻ ομιτ
235.2	9:21,1.2	Ex-152	θεω
236.2	9:21,2.2	Ex-152	στω
237.2	9:21,3.2	Ex-172\$	κερδησω
238.2	9:21,4.2	Ex-155#	◦ ομιτ
239.2	9:22,1.2	Ex-155#	ως
240.2	9:22,2.2	Ex-166#	παντας
241.2	9:23,1.2	Ex-152	τουτο
242.2	9:25,1.2	Ex-168\$	◦ ομιτ
243.2	10:2,1.2	Ex-169\$	^α —ισαντο
243.3	10:2,1.3	P ⁴⁶ *	—ιζοντο
244.2	10:3,1.2	Ex-168\$	το
244.3	10:3,1.3	01*	—
245.2	10:4,1.2	Ex-168\$	◦ ομιτ
246.2	10:4,2.2	Ex-168\$	2 1
247.2	10:5,1.2	81*%	◻ ομιτ
248.2	10:8,1.2	Ex-155#	εν
249.2	10:8,2.2	Ex-168\$	τεσσαρες
250.2	10:9,1.2	Ex-172\$	^α κυριον
250.3	10:9,1.3	Ex-169\$	θεον
251.2	10:9,2.2	Ex-168\$	εξεπ—
252.2	10:9,3.2	Ex-168\$	απωλοντο
253.2	10:10,1.2	Ex-169\$	—ζωμεν
254.2	10:10,2.2	Ex-169\$	καθως
254.3	10:10,2.3	Ex-151	καθως και
255.1	10:11,1.1	Ex-172\$	΄ταυτα δε
255.2	10:11,1.2	Ex-168\$	παντα δε ταυτα
256.2	10:11,2.2	Ex-168\$	τυποι —νον
257.2	10:13,1.2	Ex-166#	ου καταλαβη
258.2	10:13,2.2	Ex-168\$	αφησει
259.2	10:13,3.2	Ex-168\$	2 1
260.2	10:13,4.2	Ex-155#	υμας
261.2	10:16,1.2	Ex-172\$	ευχαριστιας
262.1	10:16,2.1	Ex-165#	^ε στιν του αιματος του Χριστου ^τ
263.2	10:17,1.2	Ex-166#	και του ενος ποτηριου
264.1	10:18,1.1	Ex-168\$	Γουχ
265.2	10:19,1.2	Ex-166#	2 1
266.2	10:19,2.2	Ex-172\$	◻ ομιτ
267.2	10:19,3.2	Ex-166#	2 1
268.1	10:20,1.1	Ex-168\$	Γθουσιν

269.2	10:20,2.2	Ex-172\$	4 1-3
270.2	10:20,3.2	Ex-168\$	δαμ. κοιν.
270.3	10:20,3.3	Ex-169\$	καν. δαμ.
271.2	10:23,1.2	Ex-155#	μοι
272.2	10:23,2.2	Ex-155#	μοι
273.2	10:24,1.2	Ex-152	εκαστος
274.2	10:27,1.2	Ex-166#	εις δειπνον
275.2	10:27,2.2	Ex-157	παντα τα —μενα
276.2	10:28,1.2	Ex-166#	ειδωλοθ—
277.2	10:28,2.2	Ex-168\$	□ ομιτ
278.2	10:28,3.2	Ex-169\$	του γαρ κυριου η γη και το πληρωμα αυτης
279.2	10:29,1.2	Ex-168\$	απιστου
280.2	10:31,1.2	Ex-168\$	ο ομιτ
281.1	10:33,1.1	Ex-165#	Γσυμφορον
282.2	11:2,1.2	Ex-166#	αδελφοι
283.2	11:2,2.2	Ex-160	πανταχου
284.2	11:3,1.2	Ex-144	ο ομιτ
285.2	11:5,1.2	Ex-169\$	εαυ—
286.2	11:9,1.2	Ex-168\$	ανθρωπον
287.2	11:10,1.2	Ex-168\$	καλυμμα
288.2	11:14,1.2	Ex-169\$	η
289.2	11:15,1.2	Ex-169\$	ο ομιτ
289.3	11:15,1.3	Ex-172\$	πον. α. δεδ.
290.1	11:17,1.1	Ex-172\$	Γπαραγγελων
290.3	11:17,1.3	Ex-164	—λων
290.4	11:17,1.4	Ex-169\$	—λω
291.1	11:17,2.1	Ex-172\$	Γεπαινω
291.3	11:17,2.3	Ex-164	—νων
291.4	11:17,2.4	Ex-169\$	νω
292.2	11:19,1.2	Ex-166#	□ ομιτ
293.1	11:19,2.1	Ex-168\$	οκαι
294.2	11:19,3.2	Ex-168\$	□ ομιτ
295.2	11:20,1.2	33*	δε
295.3	11:20,1.3	Ex-168\$	—
296.2	11:22,1.2	Ex-166#	επαινω
297.2	11:22,2.2	Ex-168\$	ο ομιτ
298.2	11:23,1.2	Ex-166#	παρα κυρ.
298.3	11:23,1.3	Ex-168\$	απο θεου
299.2	11:23,2.2	Ex-158	ο ομιτ
300.2	11:23,3.2	Ex-168\$	τον
301.2	11:24,1.2	Ex-169\$	λαβετε φαγετε

302.2	11:24,2.2	Ex-172\$	2 1
303.2	11:24,3.2	Ex-168\$	◦ ομιτ
304.2	11:24,4.2	Ex-155#	κλωμενον
304.4	11:24,4.4	Ex-169\$	διδομενον
305.2	11:25,1.2	Ex-168\$	αιμ. μου
306.2	11:26,1.2	Ex-172\$	τουτο
307.2	11:27,1.2	Ex-169\$	τουτον
308.2	11:27,2.2	Ex-168\$	του κυριου
309.1	11:29,1.1	Ex-165#	ᵀ ομιτ
310.1	11:29,2.1	Ex-165#	ᵀ ομιτ
311.2	11:31,1.2	Ex-155#	γαρ
312.2	11:32,1.2	Ex-168\$	◦ ομιτ
313.2	11:34,1.2	Ex-172\$	δε
314.2	12:2,1.2	Ex-168\$	2
314.3	12:2,1.3	Ex-169\$	1
315.2	12:2,2.2	Ex-156	αμορφα
316.2	12:2,3.2	Ex-169\$	ως ανηγεσθε
316.3	12:2,3.3	Ex-166#	ωσαν ηγ.
317.2	12:3,1.2	Ex-168\$	◦ ομιτ
318.2	12:3,2.2	Ex-169\$	A. —σουν
318.3	12:3,2.3	Ex-166#	A. —σου
319.2	12:3,3.2	Ex-168\$	—ιον —σουν
320.2	12:6,1.2	Ex-168\$	και ο
321.2	12:6,2.2	Ex-169\$	θ. ο εν. εστιν
321.3	12:6,2.3	Ex-155#	εστιν θ. ο εν.
322.2	12:9,1.2	Ex-172\$	δε
323.2	12:9,2.2	Ex-172\$	—μα
324.2	12:9,3.2	Ex-172\$	αυτω
324.3	12:9,3.3	Ex-169\$	—
325.2	12:10,1.2	Ex-168\$	ενεργεια δυναμεως
326.2	12:10,2.2	Ex-166#	◦ ομιτ
327.2	12:10,3.2	Ex-166#	◦ ομιτ
328.2	12:10,4.2	Ex-172\$	—σις
329.2	12:10,5.2	Ex-172\$	δε
330.2	12:10,6.2	Ex-168\$	διερμ—
331.2	12:11,1.2	Ex-172\$	◦ ομιτ
332.2	12:12,1.2	Ex-155#	του ενος
333.2	12:13,1.2	Ex-169\$	εις
334.2	12:13,2.2	Ex-168\$	πομα εποτ.
334.3	12:13,2.3	Ex-157	σωμα εσμεν
335.2	12:18,1.2	Ex-168\$	ᶜ νυν

336.2	12:19,1.2	Ex-168\$	◦ ομιτ
337.2	12:20,1.2	Ex-169\$	◦ ομιτ
338.2	12:21,1.2	Ex-166#	◦ ομιτ
339.2	12:24,1.2	Ex-168\$	τιμης
340.2	12:24,2.2	Ex-172\$	—ρουντι
341.2	12:25,1.2	Ex-155#	—ματα
342.2	12:26,1.2	Ex-166#	ει τι
343.2	12:26,2.2	Ex-165#	◦ ομιτ
344.2	12:27,1.2	Ex-168\$	μελους
345.2	12:31,1.2	Ex-166#	κρειονα
346.2	12:31,2.2	Ex-168\$	ει τι
347.2	13:2,1.2	Ex-172\$	—νειν
348.2	13:3,1.2	Ex-166#	^α καθησομαι
348.3	13:3,1.3	Ex-168\$	—θησωμαι
348.4	13:3,1.4	Ex-169\$	καυθη
349.2	13:4,1.2	Ex-166#	◻ ομιτ
349.3	13:4,1.3	Ex-169\$	πον. π. περπ.
350.2	13:5,1.2	Ex-168\$	ευσχ—
351.2	13:5,2.2	P ⁴⁶ *	το
351.3	13:5,2.3	Ex-169\$	το μη
352.1	13:8,1.1	Ex-165#	†πιπτει
353.2	13:8,2.2	Ex-158	—εια, —σεται
354.2	13:8,3.2	Ex-169\$	—σεις, —σονται
355.2	13:10,1.2	Ex-168\$	τοτε
356.2	13:11,1.2	Ex-155#	δε
357.2	13:12,1.2	Ex-168\$	ως δι εσ.
357.3	13:12,1.3	33*	δι εσ. ως
357.4	13:12,1.4	Ex-169\$	δι εσ. και
358.2	13:13,1.2	Ex-168\$	4-6 1-3
359.2	14:2,1.2	Ex-172\$	τω
360.2	14:2,2.2	Ex-168\$	πνευμα
361.2	14:4,1.2	Ex-168\$	θεου
362.2	14:5,1.2	Ex-152	—νευει
362.3	14:5,1.3	Ex-169\$	τις —νευει .
362.4	14:5,1.4	D06*	—νευων
362.5	14:5,1.5	Ex-170\$	ἦ' ο δι—νευων
363.2	14:6,1.2	Ex-168\$	◦ ομιτ
364.2	14:7,1.2	Ex-169\$	φθογγου
365.2	14:8,1.2	Ex-166#	2 1
366.2	14:10,1.2	Ex-155#	αυτων
367.2	14:11,1.2	Ex-172\$	◦ ομιτ

368.2	14:12,1.2	Ex-168\$	—ματικων
369.2	14:12,2.2	Ex-168\$	προφητευητε
370.2	14:13,1.2	Ex-155#	διοπερ
371.2	14:14,1.2	Ex-168\$	ο ομιτ
372.2	14:15,1.2	Ex-168\$	—ξωμαι
373.2	14:15,2.2	Ex-168\$	ξωμαι
374.2	14:15,3.2	Ex-166#	ο ομιτ
375.2	14:16,1.2	Ex-168\$	—γησης
376.2	14:16,2.2	Ex-169\$	τω
376.3	14:16,2.3	Ex-172\$	—
377.2	14:18,1.2	Ex-168\$	μου
377.3	14:18,1.3	Ex-166#	οτι
377.4	14:18,1.4	Ex-169\$	υπερ
378.1	14:18,2.1	Ex-168\$	Γλωσσαεις
379.2	14:18,3.2	Ex-151	λαλων
379.3	14:18,3.3	Ex-168\$	λαλειν
379.4	14:18,3.4	Ex-157	—
380.2	14:19,1.2	Ex-169\$	εν τω ν. μ.
380.3	14:19,1.3	Ex-172\$	δια του νοος μου
380.4	14:19,1.4	Ex-156	δια τον νομον
381.2	14:21,1.2	Ex-168\$	εαν
382.2	14:21,2.2	Ex-172\$	—ροις
383.2	14:23,1.2	Ex-168\$	ελθη
384.2	14:25,1.2	Ex-168\$	και ουτω
385.2	14:25,2.2	Ex-168\$	διανοιας
386.2	14:25,3.2	Ex-169\$	ο ομιτ
387.1	14:26,1.1	Ex-165#	τ ομιτ
388.2	14:28,1.2	Ex-168\$	ερμ—
389.2	14:31,1.2	6	εκαστοι
389.3	14:31,1.3	Ex-150	εκασ. παντ.
389.4	14:31,1.4	Ex-168\$	—
390.2	14:32,1.2	Ex-168\$	—μα
391.2	14:33,1.2	Ex-168\$	θ.
391.3	14:33,1.3	Ambst%	—
392.2	14:34,1.2	Ex-168\$	’σ 3435 πον. π.
393.2	14:34,2.2	Ex-168\$	υμων
394.2	14:34,3.2	Ex-168\$	επιτετραπται
395.2	14:34,4.2	Ex-166#	—σθαι
396.2	14:34,5.2	Ex-157	τοις ανδρασιν
397.2	14:34,6.2	Ex-161	μανθανειν
398.2	14:34,7.2	Ex-168\$	ο ομιτ

399.2	14:37,1.2	Ex-169\$	1 3 2
399.3	14:37,1.3	Ex-156	1 2
399.4	14:37,1.4	Ex-166#	κυρ. εισιν εντολαι
399.5	14:37,1.5	Ex-170\$	θεου εστ. —λη
400.2	14:38,1.2	Ex-172\$	—ειτω
401.1	14:39,1.1	Ex-168\$	ομου
402.2	14:39,2.2	Ex-168\$	ο ομιτ
403.1	14:39,3.1	Ex-172\$	μη κωλυετε γλωσσαις
403.3	14:39,3.3	Ex-168\$	εν γλ. μη κ.
403.4	14:39,3.4	Ex-164	μη κ. εν γλ.
404.2	14:40,1.2	Ex-168\$	ηιχ'σσ 3435 αδδ.
405.2	15:2,1.2	Ex-168\$	οφειλετε κατεχειν
406.2	15:3,1.2	Ex-168\$	□ ομιτ
407.2	15:5,1.2	Ex-168\$	επειτα
407.3	15:5,1.3	Ex-166#	και μετα ταυτα
408.2	15:5,2.2	Ex-166#	ενδ—
409.2	15:6,1.2	Ex-172\$	και
410.2	15:7,1.2	Ex-165#	επειτα
411.2	15:10,1.2	Ex-168\$	κεινη ουκ εγ.
411.3	15:10,1.3	Ex-169\$	πτωχη ουκ εγ.
412.2	15:10,2.2	Ex-166#	ο ομιτ
413.2	15:12,1.2	Ex-172\$	2 3 1
414.1	15:14,1.1	Ex-168\$	οκαι
415.2	15:14,2.2	Ex-169\$	ημ—
416.2	15:15,1.2	Ex-169\$	□ ομιτ
417.2	15:17,1.2	Ex-158	εστιν
418.2	15:20,1.2	Ex-152	εγενετο
419.2	15:24,1.2	Ex-166#	παραδω
420.2	15:25,1.2	Ex-168\$	αυτου
421.2	15:27,1.2	Ex-166#	ο ομιτ
422.2	15:28,1.2	Ex-168\$	ο ομιτ
423.2	15:28,2.2	Ex-168\$	□ ομιτ
424.2	15:28,3.2	Ex-165#	ο ομιτ
425.2	15:29,1.2	Ex-169\$	των νεκρων
425.3	15:29,1.3	69	αυτων τ. νεκ.
426.2	15:31,1.2	Ex-168\$	ημ—
427.2	15:31,2.2	Ex-169\$	ο ομιτ
428.2	15:31,3.2	Ex-168\$	κυριω
429.2	15:34,1.2	Ex-168\$	λεγω
430.2	15:37,1.2	Ex-169\$	γεννη—
431.2	15:45,1.2	Ex-168\$	ο ομιτ

432.2	15:45,2.2	Ex-168\$	ο ομιτ
433.2	15:47,1.2	Ex-169\$	ο κυριος
433.3	15:47,1.3	Ex-172\$	ανθ. ο κυρ.
433.4	15:47,1.4	Ex-171\$	ανθ. πνευματικος
434.2	15:47,2.2	Ex-166#	ο ουρανιος
435.1	15:49,1.1	Ex-168\$	Γφορεσομεν
436.2	15:50,1.2	Ex-172\$	γαρ
437.1	15:50,2.1	Ex-168\$	κληρονομησαι ου δυναται
437.3	15:50,2.3	Ex-169\$	ου κληρονομησουσιν
438.2	15:51,1.2	Ex-157	οι
439.1	15:51,2.1	Ex-168\$	Τ ομιτ
440.2	15:51,3.2	Ex-169\$	2 1 3 4
440.3	15:51,3.3	Ex-170\$	ου κοι., ου π. δε
440.4	15:51,3.4	Ex-166#	αναστησομεθα, ου π. δε
441.2	15:52,1.2	Ex-168\$	ροπη
442.2	15:52,2.2	Ex-168\$	αναστησ—
443.2	15:54,1.2	Ex-172\$	7-11
443.3	15:54,1.3	Ex-169\$	7-11 6 1-5
444.2	15:54,2.2	Ex-168\$	νεικος
445.2	15:54,3.2	Ex-168\$	6 2-5 1
445.3	15:54,3.3	Ex-172\$	κεν.; π. σ., αδη, το νι.
445.4	15:54,3.4	Ex-169\$	νι.; π. σ., αδη, το κεν.
446.2	15:54,4.2	Ex-168\$	νεικος
447.2	16:2,1.2	Ex-155#	—των
448.2	16:2,2.2	Ex-172\$	—δωθη
449.2	16:3,1.2	Ex-168\$	δοκιμαζετε
450.2	16:4,1.2	Ex-168\$	2 1
451.2	16:6,1.2	Ex-168\$	ο ομιτ
452.2	16:6,2.2	Ex-168\$	ϛ καταμ—
453.2	16:6,3.2	Ex-168\$	1
453.3	16:6,3.3	Ex-169\$	2
454.2	16:7,1.2	Ex-169\$	δε
455.2	16:8,1.2	Ex-169\$	—μένω
456.2	16:10,1.2	Ex-168\$	εγω
457.2	16:12,1.2	Ex-168\$	δηλω υμιν οτι
458.2	16:15,1.2	Ex-166#	και Φορτουνατου
458.3	16:15,1.3	Ex-169\$	κ. Φορ. και Αχαι[κου]
459.2	16:15,2.2	33*	Αχ. αυτος
459.3	16:15,2.3	Ex-168\$	Ασιας
460.1	16:17,1.1	Ex-168\$	Γυμετερον
461.2	16:17,2.2	Ex-166#	αυτοι

462.2	16:19,1.2	Ex-157	□ ομιτ
463.2	16:19,2.2	Ex-172\$	□ ομιτ
464.2	16:19,3.2	Ex-168\$	—ζονται
465.2	16:19,4.2	Ex-166#	—κιλλα
466.2	16:19,5.2	Ex-172\$	παρ οις και ξενιζομαι
467.2	16:22,1.2	Ex-168\$	μαραν αθα
467.3	16:22,1.3	Ex-169\$	μαραναθα
468.1	16:23,1.1	Ex-165#	† ομιτ
469.1	16:24,1.1	Ex-168\$	† ομιτ
469.3	16:24,1.3	Ex-169\$	γενεθητω γενεθητω

Appendix G

Places Where the Non-Autographic Variants Were Initiated

in the Textual History of 1 Corinthians

Arranged in Order by Witness

This appendix lists the place in the genealogical history of the text of the Book of 1 Corinthians where each non-original textual variant was first initiated, arranged in order by witness. For each witness, the table lists (1) the exemplar or extant witness in which the variant was initiated, (2) the place of variation in the text where the variation occurred, (3) the associated reference, (4) the text of the variant. For example, the following line means:

P ^{11%}	80.2	4:10,1.2	κυριω
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- (1) This variant was initiated in papyrus P^{11%}, a fragment.
- (2) 80.2 refers to the second variant at variation unit 80.
- (3) 4:10,1.2 is the reference where this place of variation occurs: chapter 4, verse 10, the first place of variation in this verse, the second variant there.
- (4) The variant reads: κυριω (Lord)

Since the variant was first initiated in a manuscript, it a singularity having no prior history.

The following line means:

Ex-151	112.3	5:13,2.3	και εξαρειτε
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- (1) This variant was initiated in exemplar Ex-151.
- (2) 112.3 refers to the third variant at variation unit 112.
- (3) 5:13,2.3 is the reference where this place of variation occurs: chapter 1 verse 13, the second place of variation in this verse, the third variant there.
- (4) The variant reads: και εξαρειτε (put away)

Since the variant was first initiated in an exemplar, one can presume that the variant was inherited by all of the descendants of that exemplar (Ex-151) unless otherwise altered in one of its subsequent branches.

**List of Places Where Non-Autographic Variants Were Initiated
in the Genealogical History, Arranged in Order by Witness
Total = 628**

P ¹¹ %	80.2	4:10,1.2	κυριω
Total for P ¹¹ % = 1			
P ¹⁵ %	178.2	7:35,3.2	—στους ειναι
P ¹⁵ %	181.2	7:37,2.2	ο ομιτ
Total for P ¹⁵ % = 2			
P ³⁴ %	452.2	16:6,2.2	^α καταμ—
Total for P ³⁴ % = 1			
P ⁴⁶ *	243.3	10:2,1.3	—ιζοντο
P ⁴⁶ *	351.2	13:5,2.2	το
Total for P ⁴⁶ * = 2			
P ⁶¹ %	91.1	5:2,1.1	Γάρθη
P ⁶¹ %	96.2	5:5,1.2	Ιησου
Total for P ⁶¹ % = 2			
01*	244.3	10:3,1.3	—
Total for 01* = 1			
A*	208.3	8:8,3.3	1-4 9 6-8 5
Total for A* = 1			
D06*	98.2	5:6,2.2	δολοι
D06*	194.2	8:2,1.2	δε
D06*	197.2	8:2,4.2	ουδεπω
D06*	284.2	11:3,1.2	ο ομιτ
D06*	304.3	11:24,4.3	θρυπτομενον
D06*	362.4	14:5,1.4	—νεων
Total for D06* = 6			
D06 ^c %	194.2	8:2,1.2	δε
Total for D06 ^c % = 1			

D06^1	103.2	5:9,1.2	—σθε
D06^1	194.2	8:2,1.2	δε
Total for D06^1 = 2			
F*	49.4	2:15,1.4	παντα
F*	197.2	8:2,4.2	ουδεπω
F*	284.2	11:3,1.2	ο ομλτ
Total for F* = 3			
G012*	49.4	2:15,1.4	παντα
G012*	197.2	8:2,4.2	ουδεπω
Total for G012* = 2			
G012^c	49.4	2:15,1.4	παντα
G012^c	197.2	8:2,4.2	ουδεπω
Total for G012^c = 2			
L019*%	170.2	7:31,2.2	παραχρ—
Total for L019*% = 1			
044*	34.4	2:2,1.4	ιδειν τι
044*	197.2	8:2,4.2	ουδεπω
Total for 044* = 2			
88%	452.1	16:6,2.1	Γπαραμενω
Total for 088% = 1			
6	389.2	14:31,1.2	εκαστοι
Total for 6 = 1			
33*	295.2	11:20,1.2	δε
33*	357.3	13:12,1.3	δι εσ. ως
33*	459.2	16:15,2.2	Αχ. αυτος
Total for 33* = 3			
69	425.3	15:29,1.3	αυτων τ. νεκ.
Total for 69 = 1			

81*%	247.2	10:5,1.2	□ ομιτ
Total for 81*% = 1			
104*%	17.3	1:15,1.3	—τισθη
Total for 104*% = 1			
131*	35.4	2:4,1.4	πειθοις ανθ. σοφ. και λ.
Total for 131* = 1			
309	164.2	7:24,1.2	□ ομιτ
Total for 309 = 1			
326	195.3	8:2,2.3	ειναι
Total for 326 = 1			
491	5.3	1:4,1.3	ημων
Total for 491 = 1			
1241*%	34.2	2:2,1.2	2 1
Total for 1241*% = 1			
1505*%	43.3	2:11,2.3	—
1505*%	230.2	9:17,1.2	ουκ
Total for 1505*% = 2			
vg^cl	458.3	16:15,1.3	κ. Φορ. και Αχαι[κου]
Total for vg^cl = 1			
vg^st	135.1	7:1,1.1	τ ομιτ
vg^st	194.1	8:2,1.1	τ ομιτ
vg^st	218.1	9:7,1.1	ἴτον καρπον
vg^st	310.1	11:29,2.1	τ ομιτ
vg^st	356.1	13:11,1.1	τ ομιτ
vg^st	458.2	16:15,1.2	και Φορτουνατου
vg^st	465.1	16:19,4.1	Ἔθρισκα
Total for vg^st = 7			
it-f*	173.2	7:34,2.2	3-5

Total for it-f* = 1			
sy^p%	172.3	7:34,1.3	μεμ. δε
Total for sy^p% = 1			
Ambst%	391.3	14:33,1.3	—
Total for Ambst% = 1			
Cl^a%	49.4	2:15,1.4	παντα
Cl^a%	63.2	3:10,2.2	τεθεικα
Cl^a%	356.2	13:11,1.2	δε
Total for Cl^a% = 3			
Cl^b%	49.4	2:15,1.4	παντα
Cl^b%	63.2	3:10,2.2	τεθεικα
Cl^b%	356.2	13:11,1.2	δε
Total for Cl^b% = 3			
Did^a%	49.3	2:15,1.3	μεν παντας
Did^a%	63.1	3:10,2.1	εθηκα
Did^a%	91.2	5:2,1.2	εξαρθη
Did^a%	92.1	5:2,2.1	πραξας
Total for Did^a% = 4			
Epiph^a%	96.1	5:5,1.1	ομιτ
Total for Epiph^a% = 1			
Eus^a%	226.1	9:13,2.1	παρεδρευοντες
Total for Eus^a% = 1			
Eus^b%	226.1	9:13,2.1	παρεδρευοντες
Total for Eus^b% = 1			
Irlat^a%	49.3	2:15,1.3	μεν παντας
Irlat^a%	98.3	5:6,2.3	χορρυπιτ
Irlat^a%	417.2	15:17,1.2	εστιν
Total for Irlat^a% = 3			

Meth%	356.2	13:11,1.2	δε
Total for Meth% = 1			
Ptol^Ir%	49.1	2:15,1.1	ῥτα παντα
Total for Ptol^Ir% = 1			
Tert%	356.2	13:11,1.2	δε
Total for Tert% = 1			
Ex-144	284.2	11:3,1.2	ο ομιτ
Total for Ex-144 = 1			
Ex-145	35.3	2:4,1.3	πειθοι ανθ. σοφ. λ.
Total for Ex-145 = 1			
Ex-150	101.3	5:8,1.3	ῥ
Ex-150	389.3	14:31,1.3	εκασ. παντ.
Total for Ex-150 = 2			
Ex-151	112.3	5:13,2.3	και εξαρειτε
Ex-151	118.3	6:5,3.3	σοφ. ουδε εις
Ex-151	122.2	6:8,1.2	ταυτα
Ex-151	138.2	7:3,1.2	οφειλομενην ευνοιαν
Ex-151	157.2	7:17,3.2	θεος
Ex-151	158.2	7:17,4.2	κυριος
Ex-151	160.3	7:18,1.3	τις εκληθη
Ex-151	194.2	8:2,1.2	δε
Ex-151	197.3	8:2,4.3	ουδεπω ουδεν
Ex-151	254.3	10:10,2.3	καθως και
Ex-151	379.2	14:18,3.2	λαλων
Total for Ex-151 = 11			
Ex-152	91.2	5:2,1.2	εξαρθη
Ex-152	149.2	7:13,2.2	αυτος
Ex-152	183.3	7:38,2.3	—
Ex-152	235.2	9:21,1.2	θεω
Ex-152	236.2	9:21,2.2	στω

Ex-152	241.2	9:23,1.2	τουτο
Ex-152	273.2	10:24,1.2	εκαστος
Ex-152	362.2	14:5,1.2	—νευει
Ex-152	418.2	15:20,1.2	εγειντο
Total for Ex-152 = 9			
Ex-153	95.3	5:4,2.3	—
Total for Ex-153 = 1			
Ex-155#	2.2	1:1,2.2	2 1
Ex-155#	56.3	3:4,1.3	ουχι σαρκικοι
Ex-155#	63.2	3:10,2.2	τεθεικα
Ex-155#	78.2	4:6,2.2	φρονειν
Ex-155#	90.2	5:1,1.2	ονομαζεται
Ex-155#	100.2	5:7,2.2	υπερ ημων
Ex-155#	104.2	5:10,1.2	και
Ex-155#	140.2	7:5,2.2	ιησταια και τη
Ex-155#	153.2	7:14,2.2	ανδρι
Ex-155#	169.3	7:31,1.3	τω —μω τουτω
Ex-155#	177.2	7:35,2.2	—φερον
Ex-155#	180.2	7:37,1.2	5 1-3
Ex-155#	182.2	7:38,1.2	εγκ—
Ex-155#	185.2	7:38,4.2	εγκ—
Ex-155#	186.2	7:39,1.2	νομω
Ex-155#	200.2	8:4,1.2	ετερος
Ex-155#	226.2	9:13,2.2	προσεδ—
Ex-155#	238.2	9:21,4.2	ο ομιτ
Ex-155#	239.2	9:22,1.2	ως
Ex-155#	248.2	10:8,1.2	εν
Ex-155#	260.2	10:13,4.2	υμας
Ex-155#	271.2	10:23,1.2	μοι
Ex-155#	272.2	10:23,2.2	μοι
Ex-155#	304.2	11:24,4.2	κλωμενον
Ex-155#	311.2	11:31,1.2	γαρ
Ex-155#	321.3	12:6,2.3	εστιν θ. ο εν.
Ex-155#	332.2	12:12,1.2	του ενος
Ex-155#	341.2	12:25,1.2	—ματα

Ex-155#	356.2	13:11,1.2	δε
Ex-155#	366.2	14:10,1.2	αυτων
Ex-155#	370.2	14:13,1.2	διοπερ
Ex-155#	447.2	16:2,1.2	—των
Total for Ex-155# = 32			
Ex-156	43.2	2:11,2.2	1 2
Ex-156	66.2	3:13,1.2	ο ποιησας τουτο το ερ. φανερος γενηται
Ex-156	315.2	12:2,2.2	αμορφα
Ex-156	380.4	14:19,1.4	δια τον νομον
Ex-156	399.3	14:37,1.3	1 2
Total for Ex-156 = 5			
Ex-157	275.2	10:27,2.2	παντα τα —μενα
Ex-157	334.3	12:13,2.3	σωμα εσμεν
Ex-157	379.4	14:18,3.4	—
Ex-157	396.2	14:34,5.2	τοις ανδρασιν
Ex-157	438.2	15:51,1.2	οι
Ex-157	462.2	16:19,1.2	□ ομιτ
Total for Ex-157 = 6			
Ex-158	101.2	5:8,1.2	, μη
Ex-158	116.2	6:5,1.2	λαλω
Ex-158	142.2	7:5,4.2	ο ομιτ
Ex-158	202.2	8:6,2.2	ον
Ex-158	299.2	11:23,2.2	ο ομιτ
Ex-158	353.2	13:8,2.2	—εια, —σεται
Ex-158	417.2	15:17,1.2	εστιν
Total for Ex-158 = 7			
Ex-160	18.2	1:16,1.2	ο ομιτ
Ex-160	283.2	11:2,2.2	πανταχου
Total for Ex-160 = 2			
Ex-161	88.2	4:17,1.2	ε αυτο
Ex-161	128.2	6:15,2.2	ημ—
Ex-161	397.2	14:34,6.2	μανθανειν

Total for Ex-161 = 3			
Ex-164	9.2	1:8,3.2	ο ομιτ
Ex-164	52.2	3:2,1.2	ο ομιτ
Ex-164	290.3	11:17,1.3	—λλων
Ex-164	291.3	11:17,2.3	—νων
Ex-164	403.4	14:39,3.4	μη κ. εν γλ.
Total for Ex-164 = 5			
Ex-165#	16.2	1:14,1.2	^α —
Ex-165#	41.1	2:10,2.1	^τ ομιτ
Ex-165#	64.1	3:12,1.1	^τ ομιτ
Ex-165#	67.1	3:13,2.1	ο αυτο
Ex-165#	75.2	4:2,2.2	—τε
Ex-165#	156.2	7:17,2.2	^α μεμερικεν
Ex-165#	204.1	8:7,1.1	Γσυνηθεια
Ex-165#	207.1	8:8,2.1	Γπαραστησει
Ex-165#	210.1	8:11,1.1	Γαπολλυται γαρ
Ex-165#	218.1	9:7,1.1	Γτον καρπον
Ex-165#	227.1	9:15,1.1	Γουδεις κενωσει
Ex-165#	262.1	10:16,2.1	Γεστιν του αιματος του Χριστου ^τ
Ex-165#	281.1	10:33,1.1	Γσυμφορον
Ex-165#	309.1	11:29,1.1	^τ ομιτ
Ex-165#	310.1	11:29,2.1	^τ ομιτ
Ex-165#	343.2	12:26,2.2	ο ομιτ
Ex-165#	352.1	13:8,1.1	Γπιπτει
Ex-165#	387.1	14:26,1.1	^τ ομιτ
Ex-165#	410.2	15:7,1.2	επειτα
Ex-165#	424.2	15:28,3.2	ο ομιτ
Ex-165#	468.1	16:23,1.1	^τ ομιτ
Total for Ex-165# = 21			
Ex-166#	77.2	4:6,1.2	ο
Ex-166#	96.3	5:5,1.3	Ιησ. Χριστου
Ex-166#	123.2	6:10,1.2	ουτε
Ex-166#	125.3	6:11,1.3	ημων Ιησ. Χρ.
Ex-166#	126.2	6:14,1.2	εξηγειρεν

Ex-166#	135.2	7:1,1.2	μοι
Ex-166#	136.2	7:2,1.2	την —αν
Ex-166#	152.2	7:14,1.2	τη πιστη
Ex-166#	153.3	7:14,2.3	αν. τω πιστω
Ex-166#	159.2	7:17,5.2	διδασκω
Ex-166#	163.2	7:22,1.2	και
Ex-166#	170.3	7:31,2.3	χρ—
Ex-166#	171.2	7:32,1.2	θεω
Ex-166#	209.2	8:10,1.2	ο ομιτ
Ex-166#	219.2	9:7,2.2	ο ομιτ
Ex-166#	220.3	9:8,1.3	τ. λεγω
Ex-166#	229.1	9:16,2.1	εὐαγγελισωμαι
Ex-166#	240.2	9:22,2.2	παντας
Ex-166#	257.2	10:13,1.2	ου καταλαβη
Ex-166#	263.2	10:17,1.2	και του ενος ποτηριου
Ex-166#	265.2	10:19,1.2	2 1
Ex-166#	267.2	10:19,3.2	2 1
Ex-166#	274.2	10:27,1.2	εις δειπνον
Ex-166#	276.2	10:28,1.2	ειδωλοθ—
Ex-166#	282.2	11:2,1.2	αδελφοι
Ex-166#	292.2	11:19,1.2	□ ομιτ
Ex-166#	296.2	11:22,1.2	επαινω
Ex-166#	298.2	11:23,1.2	παρα κυρ.
Ex-166#	316.3	12:2,3.3	ωσαν ηγ.
Ex-166#	318.3	12:3,2.3	A. —σου
Ex-166#	326.2	12:10,2.2	ο ομιτ
Ex-166#	327.2	12:10,3.2	ο ομιτ
Ex-166#	338.2	12:21,1.2	ο ομιτ
Ex-166#	342.2	12:26,1.2	ει τι
Ex-166#	345.2	12:31,1.2	κρειονα
Ex-166#	348.2	13:3,1.2	* καυθησομαι
Ex-166#	349.2	13:4,1.2	□ ομιτ
Ex-166#	365.2	14:8,1.2	2 1
Ex-166#	374.2	14:15,3.2	ο ομιτ
Ex-166#	377.3	14:18,1.3	οτι
Ex-166#	395.2	14:34,4.2	—σθαι
Ex-166#	399.4	14:37,1.4	κυρ. εισιν εντολαι
Ex-166#	407.3	15:5,1.3	και μετα ταυτα

Ex-166#	408.2	15:5,2.2	ειδ—
Ex-166#	412.2	15:10,2.2	ο ομιτ
Ex-166#	419.2	15:24,1.2	παραδω
Ex-166#	421.2	15:27,1.2	ο ομιτ
Ex-166#	434.2	15:47,2.2	ο ουρανιος
Ex-166#	440.4	15:51,3.4	αναστησομεθα, ου π. δε
Ex-166#	458.2	16:15,1.2	και Φορτουνατου
Ex-166#	461.2	16:17,2.2	αυτοι
Ex-166#	465.2	16:19,4.2	—κιλλα
Total for Ex-166# = 52			
Ex-168\$	1.2	1:1,1.2	ο ομιτ
Ex-168\$	3.2	1:2,1.2	5-8 1-4
Ex-168\$	5.2	1:4,1.2	^ —
Ex-168\$	6.2	1:6,1.2	θεου
Ex-168\$	7.2	1:8,1.2	αχρι τ.
Ex-168\$	8.2	1:8,2.2	παρουσια
Ex-168\$	10.2	1:9,1.2	υφ
Ex-168\$	11.2	1:10,1.2	—μα
Ex-168\$	13.2	1:13,1.2	μη
Ex-168\$	14.2	1:13,2.2	ἦ
Ex-168\$	15.2	1:13,3.2	περι
Ex-168\$	17.2	1:15,1.2	—τισα
Ex-168\$	19.2	1:17,1.2	ο
Ex-168\$	20.2	1:17,2.2	—ισασθαι
Ex-168\$	21.2	1:17,3.2	λογων
Ex-168\$	22.2	1:18,1.2	ο ομιτ
Ex-168\$	26.2	1:22,1.2	ο ομιτ
Ex-168\$	27.2	1:23,1.2	Ελλησι
Ex-168\$	28.2	1:24,1.2	—στος θ. —μις κ. θ. —ια
Ex-168\$	29.2	1:26,1.2	ουν
Ex-168\$	32.2	1:30,1.2	και δ.
Ex-168\$	34.1	2:2,1.1	ἴτι εἶδεναι
Ex-168\$	36.2	2:4,2.2	αποκαλυψει
Ex-168\$	37.2	2:8,1.2	εγνω
Ex-168\$	38.2	2:8,2.2	αυτων

Ex-168\$	39.2	2:9,1.2	^ οσα
Ex-168\$	40.2	2:10,1.2	^ γαρ
Ex-168\$	42.2	2:11,1.2	ο ομιτ
Ex-168\$	44.2	2:12,1.2	τουτου
Ex-168\$	45.2	2:12,2.2	ιδωμεν
Ex-168\$	47.2	2:13,2.2	—κως
Ex-168\$	48.2	2:14,1.2	□ ομιτ
Ex-168\$	51.2	3:1,1.2	—ικοις
Ex-168\$	53.2	3:3,1.2	—ινοι
Ex-168\$	55.2	3:3,3.2	—ινοι
Ex-168\$	56.2	3:4,1.2	ουχι ανθ.
Ex-168\$	57.2	3:4,2.2	και κατα ανθρωπον περιπατειτε
Ex-168\$	61.2	3:5,4.2	αλλ η
Ex-168\$	62.2	3:10,1.2	□ ομιτ
Ex-168\$	68.2	3:14,1.2	μένει
Ex-168\$	69.2	3:16,1.2	2 1
Ex-168\$	70.2	3:17,1.2	φθειρει
Ex-168\$	71.2	3:17,2.2	αυτον
Ex-168\$	72.2	3:18,1.2	κενοις λογοις
Ex-168\$	73.2	3:20,1.2	ανθρωπων
Ex-168\$	76.2	4:5,1.2	ο ομιτ
Ex-168\$	83.2	4:13,2.2	ωσπερι καθ.
Ex-168\$	84.1	4:14,1.1	Γνουθετων
Ex-168\$	85.2	4:15,1.2	ο ομιτ
Ex-168\$	86.2	4:15,2.2	ο ομιτ
Ex-168\$	87.2	4:16,1.2	καθως καγω Χριστου
Ex-168\$	92.2	5:2,2.2	ποιησας
Ex-168\$	94.2	5:4,1.2	^ 2
Ex-168\$	95.2	5:4,2.2	2
Ex-168\$	96.4	5:5,1.4	ημων Ιησ. Χρ.
Ex-168\$	97.2	5:6,1.2	ο ομιτ
Ex-168\$	102.2	5:8,2.2	πορνειας
Ex-168\$	110.2	5:12,2.2	τους εσωθεν υμ. κρινατε
Ex-168\$	111.2	5:13,1.2	κρίνει
Ex-168\$	112.2	5:13,2.2	εξαιρετε
Ex-168\$	113.2	6:1,1.2	εξ
Ex-168\$	117.2	6:5,2.2	εστιν
Ex-168\$	118.2	6:5,3.2	2

Ex-168\$	119.2	6:5,4.2	και του αδελφου
Ex-168\$	121.2	6:7,2.2	κριμα
Ex-168\$	129.2	6:15,3.2	αρα
Ex-168\$	130.2	6:16,1.2	ο ομιτ
Ex-168\$	131.2	6:19,1.2	τα σωματα
Ex-168\$	132.2	6:19,2.2	2 1
Ex-168\$	133.2	6:20,1.2	αρατε
Ex-168\$	137.2	7:2,2.2	ο ομιτ
Ex-168\$	139.2	7:5,1.2	ο ομιτ
Ex-168\$	147.2	7:10,1.2	—ιζεσθαι
Ex-168\$	150.2	7:13,3.2	ευδ—
Ex-168\$	154.1	7:15,1.1	Γυμας
Ex-168\$	155.2	7:17,1.2	η
Ex-168\$	160.2	7:18,1.2	2 1
Ex-168\$	161.2	7:20,1.2	εν
Ex-168\$	162.2	7:21,1.2	ο ομιτ
Ex-168\$	165.2	7:28,1.2	λαβης γυναικα
Ex-168\$	166.2	7:28,2.2	ο ομιτ
Ex-168\$	167.2	7:29,1.2	στι
Ex-168\$	168.2	7:29,2.2	ο ομιτ
Ex-168\$	169.2	7:31,1.2	τ. κ. τουτον
Ex-168\$	173.3	7:34,2.3	3-5 1 2
Ex-168\$	174.2	7:34,3.2	ο ομιτ
Ex-168\$	175.2	7:34,4.2	ο ομιτ
Ex-168\$	179.2	7:36,1.2	—ειτω
Ex-168\$	183.2	7:38,2.2	τ. π. αυτ.
Ex-168\$	184.2	7:38,3.2	ποιησει
Ex-168\$	186.3	7:39,1.3	γαμω
Ex-168\$	188.2	7:39,3.2	αποθαινη
Ex-168\$	189.2	7:40,1.2	μακαρια
Ex-168\$	190.2	7:40,2.2	γαρ
Ex-168\$	191.2	7:40,3.2	Χριστου
Ex-168\$	193.2	8:1,1.2	δε
Ex-168\$	196.2	8:2,3.2	ο ομιτ
Ex-168\$	198.2	8:3,1.2	ο ομιτ
Ex-168\$	201.2	8:6,1.2	ο ομιτ
Ex-168\$	203.2	8:6,3.2	, και ε̅ ν̅ πνευμα αγιον, εν ω τα παντα και ημεις εν αυτω
Ex-168\$	205.2	8:7,2.2	ασθενουσα

Ex-168\$	208.1	8:8,3.1	ῶτε ἔαν μῆ φαγωμεν υστερουμεθα ουτε ἔαν φαγωμεν περισσεῦ ομεν
Ex-168\$	210.2	8:11,1.2	απ. ουν
Ex-168\$	211.2	8:11,2.2	αδ. εν τ. σ. γν.
Ex-168\$	212.2	8:12,1.2	ο ομιτ
Ex-168\$	213.2	8:13,1.2	ο ομιτ
Ex-168\$	214.2	8:13,2.2	ο ομιτ
Ex-168\$	216.2	9:2,1.2	της εμης
Ex-168\$	217.2	9:5,1.2	γυναικας
Ex-168\$	220.2	9:8,1.2	λεγω
Ex-168\$	221.2	9:9,1.2	1-3 5 6
Ex-168\$	222.1	9:9,2.1	ῤκημωσεις
Ex-168\$	227.2	9:15,1.2	ουθεις μῆ καινωσει
Ex-168\$	228.2	9:16,1.2	χαρις
Ex-168\$	229.3	9:16,2.3	—ζομαι
Ex-168\$	232.2	9:18,2.2	του Χριστου
Ex-168\$	234.2	9:20,2.2	ο ομιτ
Ex-168\$	242.2	9:25,1.2	ο ομιτ
Ex-168\$	244.2	10:3,1.2	το
Ex-168\$	245.2	10:4,1.2	ο ομιτ
Ex-168\$	246.2	10:4,2.2	2 1
Ex-168\$	249.2	10:8,2.2	τεσσαρες
Ex-168\$	251.2	10:9,2.2	εξεπ—
Ex-168\$	252.2	10:9,3.2	απωλοντο
Ex-168\$	255.2	10:11,1.2	παντα δε ταυτα
Ex-168\$	256.2	10:11,2.2	τυποι —νον
Ex-168\$	258.2	10:13,2.2	αφησει
Ex-168\$	259.2	10:13,3.2	2 1
Ex-168\$	264.1	10:18,1.1	ῤούχ
Ex-168\$	268.1	10:20,1.1	ῤθουουσιν
Ex-168\$	270.2	10:20,3.2	δαμ. κοιν.
Ex-168\$	277.2	10:28,2.2	ο ομιτ
Ex-168\$	279.2	10:29,1.2	απιστου
Ex-168\$	280.2	10:31,1.2	ο ομιτ
Ex-168\$	286.2	11:9,1.2	ανθρωπον
Ex-168\$	287.2	11:10,1.2	καλυμμα
Ex-168\$	293.1	11:19,2.1	οκαι
Ex-168\$	294.2	11:19,3.2	ο ομιτ

Ex-168\$	295.3	11:20,1.3	—
Ex-168\$	297.2	11:22,2.2	ο ομιτ
Ex-168\$	298.3	11:23,1.3	απο θεου
Ex-168\$	300.2	11:23,3.2	τον
Ex-168\$	303.2	11:24,3.2	ο ομιτ
Ex-168\$	305.2	11:25,1.2	αιμ. μου
Ex-168\$	308.2	11:27,2.2	του κυριου
Ex-168\$	312.2	11:32,1.2	ο ομιτ
Ex-168\$	314.2	12:2,1.2	2
Ex-168\$	317.2	12:3,1.2	ο ομιτ
Ex-168\$	319.2	12:3,3.2	—ιον —σουν
Ex-168\$	320.2	12:6,1.2	και ο
Ex-168\$	325.2	12:10,1.2	ενεργεια δυναμεως
Ex-168\$	330.2	12:10,6.2	διερμ—
Ex-168\$	334.2	12:13,2.2	πομα εποτ.
Ex-168\$	335.2	12:18,1.2	νυν
Ex-168\$	336.2	12:19,1.2	ο ομιτ
Ex-168\$	339.2	12:24,1.2	τιμης
Ex-168\$	344.2	12:27,1.2	μελους
Ex-168\$	346.2	12:31,2.2	ει τι
Ex-168\$	348.3	13:3,1.3	—θησωμαι
Ex-168\$	350.2	13:5,1.2	ευσχ—
Ex-168\$	355.2	13:10,1.2	τοτε
Ex-168\$	357.2	13:12,1.2	ως δι εσ.
Ex-168\$	358.2	13:13,1.2	4-6 1-3
Ex-168\$	360.2	14:2,2.2	πνευμα
Ex-168\$	361.2	14:4,1.2	θεου
Ex-168\$	363.2	14:6,1.2	ο ομιτ
Ex-168\$	368.2	14:12,1.2	—ματικων
Ex-168\$	369.2	14:12,2.2	προφητευητε
Ex-168\$	371.2	14:14,1.2	ο ομιτ
Ex-168\$	372.2	14:15,1.2	—ξωμαι
Ex-168\$	373.2	14:15,2.2	ξωμαι
Ex-168\$	375.2	14:16,1.2	—γησης
Ex-168\$	377.2	14:18,1.2	μου
Ex-168\$	378.1	14:18,2.1	Γλωσσαις
Ex-168\$	379.3	14:18,3.3	λαλειν
Ex-168\$	381.2	14:21,1.2	εαν

Ex-168\$	383.2	14:23,1.2	ελθη
Ex-168\$	384.2	14:25,1.2	και ουτω
Ex-168\$	385.2	14:25,2.2	διανοιας
Ex-168\$	388.2	14:28,1.2	ερμ—
Ex-168\$	389.4	14:31,1.4	—
Ex-168\$	390.2	14:32,1.2	—μα
Ex-168\$	391.2	14:33,1.2	θ.
Ex-168\$	392.2	14:34,1.2	'σσ 3435 πον. π.
Ex-168\$	393.2	14:34,2.2	υμων
Ex-168\$	394.2	14:34,3.2	επιτετραπται
Ex-168\$	398.2	14:34,7.2	ο ομιτ
Ex-168\$	401.1	14:39,1.1	ομου
Ex-168\$	402.2	14:39,2.2	ο ομιτ
Ex-168\$	403.3	14:39,3.3	εν γλ. μη κ.
Ex-168\$	404.2	14:40,1.2	ηιχ'σσ 3435 αδδ.
Ex-168\$	405.2	15:2,1.2	οφειλετε κατεχειν
Ex-168\$	406.2	15:3,1.2	ο ομιτ
Ex-168\$	407.2	15:5,1.2	επειτα
Ex-168\$	411.2	15:10,1.2	κενη ουκ εγ.
Ex-168\$	414.1	15:14,1.1	οκαι
Ex-168\$	420.2	15:25,1.2	αυτου
Ex-168\$	422.2	15:28,1.2	ο ομιτ
Ex-168\$	423.2	15:28,2.2	ο ομιτ
Ex-168\$	426.2	15:31,1.2	ημ—
Ex-168\$	428.2	15:31,3.2	κυριω
Ex-168\$	429.2	15:34,1.2	λεγω
Ex-168\$	431.2	15:45,1.2	ο ομιτ
Ex-168\$	432.2	15:45,2.2	ο ομιτ
Ex-168\$	435.1	15:49,1.1	φορεσομεν
Ex-168\$	437.1	15:50,2.1	κληρονομησαι ου δυναται
Ex-168\$	439.1	15:51,2.1	ο ομιτ
Ex-168\$	441.2	15:52,1.2	ροπη
Ex-168\$	442.2	15:52,2.2	αναστησ—
Ex-168\$	444.2	15:54,2.2	νεικος
Ex-168\$	445.2	15:54,3.2	6 2-5 1
Ex-168\$	446.2	15:54,4.2	νεικος
Ex-168\$	449.2	16:3,1.2	δοκιμαζετε
Ex-168\$	450.2	16:4,1.2	2 1

Ex-168\$	451.2	16:6,1.2	° ομιτ
Ex-168\$	452.2	16:6,2.2	^ καταμ—
Ex-168\$	453.2	16:6,3.2	1
Ex-168\$	456.2	16:10,1.2	εγω
Ex-168\$	457.2	16:12,1.2	δηλω υμιν οτι
Ex-168\$	459.3	16:15,2.3	Ασιας
Ex-168\$	460.1	16:17,1.1	ἤμετερον
Ex-168\$	464.2	16:19,3.2	—ζονται
Ex-168\$	467.2	16:22,1.2	μαραν αθα
Ex-168\$	469.1	16:24,1.1	τ ομιτ
Total for Ex-168\$ = 224			
Ex-169\$	7.3	1:8,1.3	τελειους
Ex-169\$	12.2	1:11,1.2	° ομιτ
Ex-169\$	16.3	1:14,1.3	τ. θ. μου
Ex-169\$	23.2	1:18,2.2	° ομιτ
Ex-169\$	24.2	1:18,3.2	° ομιτ
Ex-169\$	34.3	2:2,1.3	του ειδ.τι
Ex-169\$	46.2	2:13,1.2	αγιου
Ex-169\$	49.5	2:15,1.5	μεν τα παντα
Ex-169\$	54.2	3:3,2.2	και διχοστασαι
Ex-169\$	60.2	3:5,3.2	Παυλ. Απ.
Ex-169\$	65.2	3:12,2.2	^ —σιον, —ριον
Ex-169\$	74.2	4:2,1.2	ὃ δε
Ex-169\$	81.2	4:11,1.2	γυμνητ—
Ex-169\$	89.2	4:17,2.2	1
Ex-169\$	93.2	5:3,1.2	ως
Ex-169\$	94.3	5:4,1.3	ημ. Ιησ. Χριστου
Ex-169\$	106.2	5:10,3.2	οφ—
Ex-169\$	107.2	5:11,1.2	νυνι
Ex-169\$	109.2	5:12,1.2	και
Ex-169\$	114.2	6:2,1.2	° ομιτ
Ex-169\$	120.2	6:7,1.2	° ομιτ
Ex-169\$	124.2	6:10,2.2	ου
Ex-169\$	125.2	6:11,1.2	1
Ex-169\$	126.3	6:14,1.3	εξεγειρει
Ex-169\$	129.3	6:15,3.3	ἡ αρα

Ex-169\$	133.3	6:20,1.3	—
Ex-169\$	134.2	6:20,2.2	και εν τω πνευματι υμων, ατινα εστιν του θεου
Ex-169\$	146.2	7:9,1.2	^α γαμειν
Ex-169\$	147.3	7:10,1.3	—ιζεσθω
Ex-169\$	157.3	7:17,3.3	θεος
Ex-169\$	158.3	7:17,4.3	θεος
Ex-169\$	163.3	7:22,1.3	δε και
Ex-169\$	172.2	7:34,1.2	2 3
Ex-169\$	180.3	7:37,1.3	1-4
Ex-169\$	187.2	7:39,2.2	και
Ex-169\$	192.2	7:40,4.2	εχω
Ex-169\$	199.2	8:3,2.2	□ ομιτ
Ex-169\$	206.2	8:8,1.2	υμ—
Ex-169\$	211.3	8:11,2.3	αδ. επι τ. σ. γν.
Ex-169\$	215.2	9:1,1.2	4 2 3 1
Ex-169\$	221.3	9:9,1.3	γεγρ. γαρ
Ex-169\$	225.2	9:13,1.2	ο ομιτ
Ex-169\$	227.3	9:15,1.3	τις κεν—
Ex-169\$	233.2	9:20,1.2	ο ομιτ
Ex-169\$	243.2	10:2,1.2	^α —ισαντο
Ex-169\$	250.3	10:9,1.3	θειον
Ex-169\$	253.2	10:10,1.2	—ζωμεν
Ex-169\$	254.2	10:10,2.2	καθως
Ex-169\$	270.3	10:20,3.3	καν. δαιμ.
Ex-169\$	278.2	10:28,3.2	του γαρ κυριου η γη και το πληρωμα αυτης
Ex-169\$	285.2	11:5,1.2	εαυ—
Ex-169\$	288.2	11:14,1.2	ἡ
Ex-169\$	289.2	11:15,1.2	ο ομιτ
Ex-169\$	290.4	11:17,1.4	—λλω
Ex-169\$	291.4	11:17,2.4	νω
Ex-169\$	301.2	11:24,1.2	λαβετε φαγετε
Ex-169\$	304.4	11:24,4.4	διδομενον
Ex-169\$	307.2	11:27,1.2	τουτου
Ex-169\$	314.3	12:2,1.3	1
Ex-169\$	316.2	12:2,3.2	ως ανηγεσθε
Ex-169\$	318.2	12:3,2.2	A. —σουν
Ex-169\$	321.2	12:6,2.2	θ. ο εν. εστιν
Ex-169\$	324.3	12:9,3.3	—

Ex-169\$	333.2	12:13,1.2	εις
Ex-169\$	337.2	12:20,1.2	ο ομιτ
Ex-169\$	348.4	13:3,1.4	καυθη
Ex-169\$	349.3	13:4,1.3	πον. π. περπ.
Ex-169\$	351.3	13:5,2.3	το μη
Ex-169\$	354.2	13:8,3.2	—σεις, —σονται
Ex-169\$	357.4	13:12,1.4	δι εσ. και
Ex-169\$	362.3	14:5,1.3	τις —νευει .
Ex-169\$	364.2	14:7,1.2	φθογγου
Ex-169\$	376.2	14:16,2.2	τω
Ex-169\$	377.4	14:18,1.4	υπερ
Ex-169\$	380.2	14:19,1.2	εν τω ν. μ.
Ex-169\$	386.2	14:25,3.2	ο ομιτ
Ex-169\$	399.2	14:37,1.2	1 3 2
Ex-169\$	411.3	15:10,1.3	πτωχη ουκ εγ.
Ex-169\$	415.2	15:14,2.2	ημ—
Ex-169\$	416.2	15:15,1.2	□ ομιτ
Ex-169\$	425.2	15:29,1.2	των νεκρων
Ex-169\$	427.2	15:31,2.2	ο ομιτ
Ex-169\$	430.2	15:37,1.2	γεννη—
Ex-169\$	433.2	15:47,1.2	ο κυριος
Ex-169\$	437.3	15:50,2.3	ου κληρονομησουσιν
Ex-169\$	440.2	15:51,3.2	2 1 3 4
Ex-169\$	443.3	15:54,1.3	7-11 6 1-5
Ex-169\$	445.4	15:54,3.4	νι.; π. σ., αδη, το κεν.
Ex-169\$	453.3	16:6,3.3	2
Ex-169\$	454.2	16:7,1.2	δε
Ex-169\$	455.2	16:8,1.2	—μένω
Ex-169\$	458.3	16:15,1.3	κ. Φορ. και Αχαι[κου
Ex-169\$	467.3	16:22,1.3	μαραναθα
Ex-169\$	469.3	16:24,1.3	γενεθητω γενεθητω
Total for Ex-169\$ = 94			
Ex-170\$	35.5	2:4,1.5	πειθοις σοφ.
Ex-170\$	65.3	3:12,2.3	—σον και —ρον
Ex-170\$	89.3	4:17,2.3	κυριω Ιησ.
Ex-170\$	94.4	5:4,1.4	Ιησ. Χρ.

Ex-170\$	231.3	9:18,1.3	εσται μοι
Ex-170\$	362.5	14:5,1.5	ἦ· ο δι—νευων
Ex-170\$	399.5	14:37,1.5	θεου εστ. —λη
Ex-170\$	440.3	15:51,3.3	ου κοι., ου π. δε
Total for Ex-170\$ = 8			
Ex-171\$	65.4	3:12,2.4	—σιον και —ριον
Ex-171\$	433.4	15:47,1.4	ανθ. πνευματικος
Total for Ex-171\$ = 2			
Ex-172\$	4.2	1:2,2.2	τε
Ex-172\$	25.2	1:20,1.2	τουτου
Ex-172\$	30.1	1:28,1.1	τ ομιτ
Ex-172\$	31.1	1:29,1.1	του θεου
Ex-172\$	33.2	2:1,1.2	μαρτυριον
Ex-172\$	35.2	2:4,1.2	πειθοις ανθρωπινης σοφ. λ.
Ex-172\$	49.2	2:15,1.2	μεν παντα
Ex-172\$	50.2	2:16,1.2	κυριου
Ex-172\$	58.2	3:5,1.2	τις
Ex-172\$	59.2	3:5,2.2	τις
Ex-172\$	79.2	4:9,1.2	οτι
Ex-172\$	82.2	4:13,1.2	βλασφ—
Ex-172\$	96.2	5:5,1.2	Ιησου
Ex-172\$	99.2	5:7,1.2	ουν
Ex-172\$	105.1	5:10,2.1	και
Ex-172\$	108.2	5:11,2.2	ἦ
Ex-172\$	115.2	6:2,2.2	κρίνουσιν
Ex-172\$	127.2	6:15,1.2	η
Ex-172\$	141.2	7:5,3.2	συνερχηθε
Ex-172\$	143.2	7:7,1.2	γαρ
Ex-172\$	144.2	7:7,2.2	ος
Ex-172\$	145.2	7:7,3.2	ος
Ex-172\$	148.2	7:13,1.2	ητις
Ex-172\$	151.2	7:13,4.2	αυτον
Ex-172\$	172.4	7:34,1.4	1 2
Ex-172\$	173.1	7:34,2.1	η αγαμος και η παρθενος
Ex-172\$	176.2	7:35,1.2	ο ομιτ
Ex-172\$	195.2	8:2,2.2	ειδεναι

Ex-172\$	210.4	8:11,1.4	και απολειται
Ex-172\$	223.2	9:10,1.2	της ελπιδος αυτου μετ. επ ελπ.
Ex-172\$	224.2	9:12,1.2	εκκ—
Ex-172\$	231.2	9:18,1.2	μοι εσ.
Ex-172\$	237.2	9:21,3.2	κερδησω
Ex-172\$	250.2	10:9,1.2	^α κυριον
Ex-172\$	255.1	10:11,1.1	ταυτα δε
Ex-172\$	261.2	10:16,1.2	ευχαριστιας
Ex-172\$	266.2	10:19,2.2	□ ομιτ
Ex-172\$	269.2	10:20,2.2	4 1-3
Ex-172\$	289.3	11:15,1.3	πον. α. δεδ.
Ex-172\$	290.1	11:17,1.1	Γ παραγγελων
Ex-172\$	291.1	11:17,2.1	Επαينو
Ex-172\$	302.2	11:24,2.2	2 1
Ex-172\$	306.2	11:26,1.2	τουτο
Ex-172\$	313.2	11:34,1.2	δε
Ex-172\$	322.2	12:9,1.2	δε
Ex-172\$	323.2	12:9,2.2	—μα
Ex-172\$	324.2	12:9,3.2	αυτω
Ex-172\$	328.2	12:10,4.2	—σις
Ex-172\$	329.2	12:10,5.2	δε
Ex-172\$	331.2	12:11,1.2	ο ομιτ
Ex-172\$	340.2	12:24,2.2	—ρουντι
Ex-172\$	347.2	13:2,1.2	—νειν
Ex-172\$	359.2	14:2,1.2	τω
Ex-172\$	367.2	14:11,1.2	ο ομιτ
Ex-172\$	376.3	14:16,2.3	—
Ex-172\$	380.3	14:19,1.3	δια του νοος μου
Ex-172\$	382.2	14:21,2.2	—ροις
Ex-172\$	400.2	14:38,1.2	—ειτω
Ex-172\$	403.1	14:39,3.1	μη κωλυετε γλωσσαις
Ex-172\$	409.2	15:6,1.2	και
Ex-172\$	413.2	15:12,1.2	2 3 1
Ex-172\$	433.3	15:47,1.3	ανθ. ο κυρ.
Ex-172\$	436.2	15:50,1.2	γαρ
Ex-172\$	443.2	15:54,1.2	7-11
Ex-172\$	445.3	15:54,3.3	κεν.; π. σ., αδη, το νι.
Ex-172\$	448.2	16:2,2.2	—δωθη

Ex-172\$	463.2	16:19,2.2	□ ομιτ
Ex-172\$	466.2	16:19,5.2	παρ οις και ξενιζομαι
Total for Ex-172\$ = 68			

Appendix H

Every Place Where a Variant is Initiated

in the Textual History of 1 Corinthians

Arranged in Order by Reference

This appendix lists every place a variant is introduced into the textual history of 1 Corinthians either initially or later by mixture. The information is arranged in order by reference as follows: (1) place of variation, (2) reference, (3) witness(es) where variant was initiated. Those witnesses enclosed in square brackets [] are places where the variant was introduced by mixture; those not enclosed are where the variant first originated. The number enclosed in <>; is the generation of the preceding witness. For example, the following line means:

5.1	1:4,1.1	Autograph
-----	---------	-----------

- (1) 5.1 refers to the first variant in variation unit 5.
- (2) 1:4,1.1 is the reference where this place of variation occurs: chapter 1, verse 4, the first place of variation in this verse, the first variant there.
- (3) *Autograph* means that the variant was initiated in the autograph and nowhere else.

Since the variant was first initiated in an exemplar, one can presume that the variant was inherited by all of the descendants of the autograph unless otherwise altered in one of its subsequent branches.

The following line means:

5.2	1:4,1.2	[01*]<4>; [Ex-164]<2>; Ex-168\$<1>;
-----	---------	-------------------------------------

- (1) 5.2 refers to the second variant in variation unit 5.
- (2) 1:4,1.2 is the reference where this place of variation occurs: chapter 1, verse 4, the first place of variation in this verse, the second variant there.
- (3) The variant was first initiated in virtual exemplar Ex-168\$, and subsequently initiated by mixture in [01*]<4>; and [Ex-164]<2>.

Since the variant was first initiated in a virtual exemplar, one may safely assume that the variant randomly happened by scribal accident and not by actual mixture in a context of actual genealogical descent.

1.1	1:1,1.1	Autograph
1.2	1:1,1.2	[P^61%]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [81*%]<3>; [Ex-157]<3>; Ex-168\$<1>;
2.1	1:1,2.1	[D06^2]<4>; [33*]<5>; [vg^cl]<4>; Autograph
2.2	1:1,2.2	[vg^st]<4>; [it-b*]<5>; Ex-155#<1>; [Ex-161]<2>;
3.1	1:2,1.1	[Ex-146]<5>; Autograph
3.2	1:2,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [Ambst%]<5>; [Ex-151]<3>; [Ex-164]<2>; Ex-168\$<1>;
4.1	1:2,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
4.2	1:2,2.2	[A^c]<4>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
5.1	1:4,1.1	Autograph
5.2	1:4,1.2	[01*]<4>; [Ex-164]<2>; Ex-168\$<1>;
5.3	1:4,1.3	491<5>;
6.1	1:6,1.1	Autograph
6.2	1:6,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [81*%]<3>; [1175*%]<3>; [1175^c%]<3>; [sa^b%]<2>; [Eus^a%]<3>; [Eus^b%]<3>; [Ex-144]<4>; Ex-168\$<1>;
7.1	1:8,1.1	Autograph
7.2	1:8,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
7.3	1:8,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-169\$<1>;
8.1	1:8,2.1	Autograph
8.2	1:8,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
9.1	1:8,3.1	Autograph
9.2	1:8,3.2	Ex-164<2>;
10.1	1:9,1.1	Autograph
10.2	1:9,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
11.1	1:10,1.1	Autograph
11.2	1:10,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [33*]<5>; Ex-168\$<1>;
12.1	1:11,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
12.2	1:11,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [104*%]<3>; [Ex-160]<3>; Ex-169\$<1>;
13.1	1:13,1.1	Autograph
13.2	1:13,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [326]<5>; [2464*%]<3>; [sa^a%]<2>; [sy^p%]<6>; Ex-168\$<1>;
14.1	1:13,2.1	Autograph
14.2	1:13,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [sy^p%]<6>; Ex-168\$<1>;
15.1	1:13,3.1	Autograph
15.2	1:13,3.2	[D06*]<5>; [Ex-164]<2>; Ex-168\$<1>;
16.1	1:14,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [NA-27]<2>; [bo^b%]<2>; [Ex-147]<6>; Autograph
16.2	1:14,1.2	[6]<6>; Ex-165#<1>;

16.3	1:14,1.3	[33*]<5>; [81*%]<3>; [326]<5>; [vg^b]<3>; [it-ar]<5>; [sy^p%]<6>; [Ex-157]<3>; Ex-169\$<1>;
17.1	1:15,1.1	[6]<6>; Autograph
17.2	1:15,1.2	[C^3%]<4>; [D06^c%]<3>; [D06^1]<2>; [it-g%]<2>; [it-r%]<3>; [Tert%]<4>; [Ex-147]<6>; [Ex-152]<2>; [Ex-160]<3>; Ex-168\$<1>;
17.3	1:15,1.3	104*%<3>;
18.1	1:16,1.1	[D06*]<5>; Autograph
18.2	1:16,1.2	Ex-160<3>;
19.1	1:17,1.1	Autograph
19.2	1:17,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [323*]<5>; [Ex-164]<2>; Ex-168\$<1>;
20.1	1:17,2.1	Autograph
20.2	1:17,2.2	[365%]<5>; [Ex-158]<3>; Ex-168\$<1>;
21.1	1:17,3.1	Autograph
21.2	1:17,3.2	[P^11%]<4>; [sy^p%]<6>; Ex-168\$<1>;
22.1	1:18,1.1	Autograph
22.2	1:18,1.2	[F*]<5>; [G012*]<5>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
23.1	1:18,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-ar]<5>; Autograph
23.2	1:18,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [it-r%]<3>; [Ex-160]<3>; Ex-169\$<1>;
24.1	1:18,3.1	[D06*]<5>; [D06^c%]<3>; Autograph
24.2	1:18,3.2	[6]<6>; [it-g%]<2>; [it-t%]<2>; [Ex-162]<2>; Ex-169\$<1>;
25.1	1:20,1.1	[D06*]<5>; [630%]<6>; [1739*]<6>; [CI^b%]<3>; [Spec%]<5>; Autograph
25.2	1:20,1.2	[P^11%]<4>; [C^3%]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [CI^a%]<3>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
26.1	1:22,1.1	Autograph
26.2	1:22,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [323*]<5>; [vg^b]<3>; [sy^p%]<6>; [Ambst%]<5>; [Cyp^a%]<5>; [Tert%]<4>; Ex-168\$<1>;
27.1	1:23,1.1	[L019*%]<6>; Autograph
27.2	1:23,1.2	[C^3%]<4>; [CI^a%]<3>; [CI^b%]<3>; [Ex-150]<5>; [Ex-151]<3>; Ex-168\$<1>;
28.1	1:24,1.1	Autograph
28.2	1:24,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [CI^a%]<3>; [CI^b%]<3>; Ex-168\$<1>;
29.1	1:26,1.1	Autograph
29.2	1:26,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
30.1	1:28,1.1	[I^1575]<5>; [Tert%]<4>; [Ex-160]<3>; [Ex-165#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
30.2	1:28,1.2	[C^3%]<4>; [Ex-147]<6>; [Ex-158]<3>; Autograph
31.1	1:29,1.1	[01^c%]<2>; [D06^c%]<3>; [D06^1]<2>; [vg^st]<4>; [it-e%]<2>; [it-r%]<3>; [Ex-151]<3>; [Ex-160]<3>; [Ex-165#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
31.2	1:29,1.2	[C*%]<4>; [629]<5>; [TR]<5>; [sy^h%]<4>; [sy^p%]<6>; Autograph

32.1	1:30,1.1	[630%]<6>; Autograph
32.2	1:30,1.2	[D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; [Ex-150]<5>; Ex-168\$<1>;
33.1	2:1,1.1	[sy^p%]<6>; Autograph
33.2	2:1,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [sa^a%]<2>; [Ex-153]<4>; [Ex-155#]<1>; [Ex-158]<3>; [Ex-163]<2>; [Ex-168\$]<1>; Ex-172\$<1>;
34.1	2:2,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [P025*%]<3>; [81*%]<3>; [NA-27]<2>; [Ex-153]<4>; [Ex-164]<2>; Ex-168\$<1>;
34.2	2:2,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; 1241*%<2>; Autograph
34.3	2:2,1.3	[Ex-147]<6>; [Ex-152]<2>; Ex-169\$<1>;
34.4	2:2,1.4	044*<3>;
35.1	2:4,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [vg^st]<4>; [sy^p%]<6>; Autograph
35.2	2:4,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [630%]<6>; [vg^cl]<4>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-169\$]<1>; Ex-172\$<1>;
35.3	2:4,1.3	Ex-145<5>;
35.4	2:4,1.4	131*<6>;
35.5	2:4,1.5	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-170\$<1>;
36.1	2:4,2.1	Autograph
36.2	2:4,2.2	[D06*]<5>; [D06^2]<4>; Ex-168\$<1>;
37.1	2:8,1.1	Autograph
37.2	2:8,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
38.1	2:8,2.1	Autograph
38.2	2:8,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
39.1	2:9,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [CI^a%]<3>; [CI^b%]<3>; Autograph
39.2	2:9,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [Did^a%]<3>; [Ex-157]<3>; [Ex-158]<3>; Ex-168\$<1>;
40.1	2:10,1.1	[Ex-147]<6>; Autograph
40.2	2:10,1.2	[6]<6>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [CI^a%]<3>; [CI^b%]<3>; [Spec%]<5>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
41.1	2:10,2.1	[CI^a%]<3>; [CI^b%]<3>; Ex-165#<1>;
41.2	2:10,2.2	[33*]<5>; [sa^b%]<2>; Autograph
42.1	2:11,1.1	[P^11%]<4>; Autograph
42.2	2:11,1.2	[33*]<5>; [Ex-157]<3>; Ex-168\$<1>;
43.1	2:11,2.1	[D06*]<5>; Autograph
43.2	2:11,2.2	Ex-156<4>;
43.3	2:11,2.3	1505*%<3>;
44.1	2:12,1.1	Autograph

44.2	2:12,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [bo^a%]<2>; [bo^b%]<2>; Ex-168\$<1>;
45.1	2:12,2.1	Autograph
45.2	2:12,2.2	[P^46*]<3>; [P^46^c%]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [L019*%]<6>; [P025*%]<3>; [0289%]<2>; [1506%]<5>; [2464*%]<3>; [pm^b]<5>; [Ex-147]<6>; Ex-168\$<1>;
46.1	2:13,1.1	[6]<6>; [sy^p%]<6>; Autograph
46.2	2:13,1.2	[D06^1]<2>; [vg^b]<3>; [Ex-151]<3>; Ex-169\$<1>;
47.1	2:13,2.1	Autograph
47.2	2:13,2.2	[33*]<5>; [Ex-158]<3>; Ex-168\$<1>;
48.1	2:14,1.1	Autograph
48.2	2:14,1.2	[1506%]<5>; [sy^p%]<6>; [Cl^b%]<3>; [Ptol^Ir%]<3>; Ex-168\$<1>;
49.1	2:15,1.1	[D06*]<5>; Ptol^Ir%<3>; Autograph
49.2	2:15,1.2	[01^1%]<4>; [0289%]<2>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-158]<3>; [Ex-168\$]<1>; Ex-172\$<1>;
49.3	2:15,1.3	Did^a%<3>; Irlat^a%<3>;
49.4	2:15,1.4	F*<5>; G012*<5>; G012^c<5>; Cl^a%<3>; Cl^b%<3>;
49.5	2:15,1.5	[P025*%]<3>; [6]<6>; [81*%]<3>; [Ex-153]<4>; Ex-169\$<1>;
50.1	2:16,1.1	Autograph
50.2	2:16,1.2	[81*%]<3>; [it-g%]<2>; [Ex-158]<3>; [Ex-162]<2>; [Ex-168\$]<1>; Ex-172\$<1>;
51.1	3:1,1.1	[D06*]<5>; [Cl^b%]<3>; [Ex-148]<5>; Autograph
51.2	3:1,1.2	[C^3%]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Cl^a%]<3>; [Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
52.1	3:2,1.1	[Cl^a%]<3>; [Cl^b%]<3>; Autograph
52.2	3:2,1.2	Ex-164<2>;
53.1	3:3,1.1	Autograph
53.2	3:3,1.2	[D06*]<5>; [D06^c%]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
54.1	3:3,2.1	[it-r%]<3>; [Ambst%]<5>; Autograph
54.2	3:3,2.2	[P^46*]<3>; [P^46^c%]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06^1]<2>; [33*]<5>; [Ex-151]<3>; [Ex-162]<2>; Ex-169\$<1>;
55.1	3:3,3.1	Autograph
55.2	3:3,3.2	[P^46*]<3>; [P^46^c%]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
56.1	3:4,1.1	Autograph
56.2	3:4,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [629]<5>; Ex-168\$<1>;
56.3	3:4,1.3	Ex-155#<1>;
57.1	3:4,2.1	Autograph
57.2	3:4,2.2	[P025*%]<3>; [vg^b]<3>; Ex-168\$<1>;
58.1	3:5,1.1	Autograph

58.2	3:5,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
59.1	3:5,2.1	Autograph
59.2	3:5,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
60.1	3:5,3.1	[D06^2]<4>; [629]<5>; Autograph
60.2	3:5,3.2	[D06^1]<2>; [Ex-152]<2>; Ex-169\$<1>;
61.1	3:5,4.1	[6]<6>; Autograph
61.2	3:5,4.2	[33*]<5>; [Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
62.1	3:10,1.1	Autograph
62.2	3:10,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [81*%]<3>; [1505*%]<3>; [vg^b]<3>; [it-b*]<5>; [it-f*]<3>; [Cl^a%]<3>; [Cl^b%]<3>; Ex-168\$<1>;
63.1	3:10,2.1	[l^249]<4>; Did^a%<3>; Autograph
63.2	3:10,2.2	[C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Cl^a%<3>; Cl^b%<3>; [Ex-147]<6>; Ex-155#<1>;
64.1	3:12,1.1	[vg^b]<3>; Ex-165#<1>;
64.2	3:12,1.2	[C^3%]<4>; [bo^a%]<2>; [Ex-153]<4>; Autograph
65.1	3:12,2.1	[33*]<5>; [Ex-147]<6>; Autograph
65.2	3:12,2.2	[01^c%]<2>; [01^2]<2>; [1175*%]<3>; [1175^c%]<3>; [l^249]<4>; [Ex-154]<3>; Ex-169\$<1>;
65.3	3:12,2.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-170\$<1>;
65.4	3:12,2.4	[0289%]<2>; [sy^p%]<6>; [Cl^a%]<3>; [Cl^b%]<3>; [Ex-158]<3>; Ex-171\$<1>;
66.1	3:13,1.1	Autograph
66.2	3:13,1.2	Ex-156<4>;
67.1	3:13,2.1	[6]<6>; [l^249]<4>; Ex-165#<1>;
67.2	3:13,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [01*]<4>; [01^1%]<4>; [0289%]<2>; [Ex-147]<6>; Autograph
68.1	3:14,1.1	[Ex-147]<6>; Autograph
68.2	3:14,1.2	[B^2]<4>; [Ex-150]<5>; [Ex-152]<2>; Ex-168\$<1>;
69.1	3:16,1.1	[Ex-147]<6>; Autograph
69.2	3:16,1.2	[P025*%]<3>; [0289%]<2>; [1175*%]<3>; [1175^c%]<3>; [Tert%]<4>; [Ex-153]<4>; [Ex-158]<3>; Ex-168\$<1>;
70.1	3:17,1.1	Autograph
70.2	3:17,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [L019*%]<6>; [P025*%]<3>; [0289%]<2>; [6]<6>; [33*]<5>; [81*%]<3>; [614*]<5>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [vg^b]<3>; [l^249]<4>; [Ir%]<3>; Ex-168\$<1>;
71.1	3:17,2.1	Autograph
71.2	3:17,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ir%]<3>; [Ex-157]<3>; Ex-168\$<1>;

72.1	3:18,1.1	Autograph
72.2	3:18,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; Ex-168\$<1>;
73.1	3:20,1.1	Autograph
73.2	3:20,1.2	[33*]<5>; [630%]<6>; [1506%]<5>; [vg^b]<3>; [it-ar]<5>; [bo^b%]<2>; [Epiph^b%]<3>; [McionE%]<5>; Ex-168\$<1>;
74.1	4:2,1.1	[6]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
74.2	4:2,1.2	[Ex-150]<5>; [Ex-151]<3>; Ex-169\$<1>;
75.1	4:2,2.1	[0289%]<2>; [NA-27]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-158]<3>; Autograph
75.2	4:2,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; Ex-165#<1>;
76.1	4:5,1.1	Autograph
76.2	4:5,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
77.1	4:6,1.1	[sy^h%]<4>; Autograph
77.2	4:6,1.2	[Ex-151]<3>; Ex-166#<1>;
78.1	4:6,2.1	[044*]<3>; Autograph
78.2	4:6,2.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [0285%]<2>; [33*]<5>; [vg^b]<3>; Ex-155#<1>;
79.1	4:9,1.1	[l^249]<4>; [l^846]<5>; [Ex-148]<5>; Autograph
79.2	4:9,1.2	[D06^1]<2>; [945]<6>; [vg^cl]<4>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
80.1	4:10,1.1	Autograph
80.2	4:10,1.2	P^11%<4>;
81.1	4:11,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [630%]<6>; [1881^c]<7>; Autograph
81.2	4:11,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Cl^a%]<3>; [Cl^b%]<3>; [Ex-149]<4>; [Ex-153]<4>; Ex-169\$<1>;
82.1	4:13,1.1	[l^249]<4>; [l^846]<5>; [Cl^a%]<3>; [Cl^b%]<3>; [Eus^a%]<3>; [Eus^b%]<3>; Autograph
82.2	4:13,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-158]<3>; [Ex-169\$]<1>; Ex-172\$<1>;
83.1	4:13,2.1	Autograph
83.2	4:13,2.2	[G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
84.1	4:14,1.1	[01^c%]<2>; [01^2]<2>; [NA-27]<2>; [l^249]<4>; [Ex-148]<5>; [Ex-161]<2>; Ex-168\$<1>;
84.2	4:14,1.2	[Ex-147]<6>; Autograph
85.1	4:15,1.1	Autograph
85.2	4:15,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [it-g%]<2>; Ex-168\$<1>;
86.1	4:15,2.1	Autograph
86.2	4:15,2.2	[1506%]<5>; [Cl^b%]<3>; [Ex-158]<3>; Ex-168\$<1>;
87.1	4:16,1.1	Autograph
87.2	4:16,1.2	[104*]<3>; [614*]<5>; [629]<5>; [vg^cl]<4>; [it-ar]<5>; Ex-168\$<1>;
88.1	4:17,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [Ex-150]<5>; Autograph

88.2	4:17,1.2	Ex-161<2>;
89.1	4:17,2.1	[629]<5>; [vg^cl]<4>; [sy^h%]<4>; [Ex-148]<5>; Autograph
89.2	4:17,2.2	[945]<6>; [vg^st]<4>; [it-b*]<5>; [sa^a%]<2>; [Ex-152]<2>; [Ex-157]<3>; [Ex-158]<3>; Ex-169\$<1>;
89.3	4:17,2.3	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-170\$<1>;
90.1	5:1,1.1	[D06^2]<4>; [6]<6>; Autograph
90.2	5:1,1.2	[vg^b]<3>; [Ex-147]<6>; Ex-155#<1>;
91.1	5:2,1.1	P^61%<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
91.2	5:2,1.2	Did^a%<3>; Ex-152<2>;
92.1	5:2,2.1	[326]<5>; Did^a%<3>; Autograph
92.2	5:2,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; [Ex-152]<2>; [Ex-164]<2>; Ex-168\$<1>;
93.1	5:3,1.1	[D06*]<5>; [6]<6>; [it-ar]<5>; Autograph
93.2	5:3,1.2	[D06^1]<2>; [Lcf%]<4>; [Ex-152]<2>; [Ex-160]<3>; Ex-169\$<1>;
94.1	5:4,1.1	Autograph
94.2	5:4,1.2	[1505*%]<3>; [Ex-152]<2>; [Ex-157]<3>; Ex-168\$<1>;
94.3	5:4,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [81*%]<3>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ambst%]<5>; [Ex-147]<6>; [Ex-151]<3>; [Ex-163]<2>; Ex-169\$<1>;
94.4	5:4,1.4	[01*]<4>; [01^c%]<2>; [01^1%]<4>; [01^2]<2>; [it-ar]<5>; Ex-170\$<1>;
95.1	5:4,2.1	[365%]<5>; Autograph
95.2	5:4,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [P025*%]<3>; [044*]<3>; [629]<5>; [1505*%]<3>; [vg^st]<4>; [sy^h%]<4>; Ex-168\$<1>;
95.3	5:4,2.3	Ex-153<4>;
96.1	5:5,1.1	Epiph^a%<3>; [Epiph^b%]<3>; [Tert%]<4>; Autograph
96.2	5:5,1.2	P^61%<3>; [01*]<4>; [01^1%]<4>; [vg^st]<4>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
96.3	5:5,1.3	[D06^2]<4>; Ex-166#<1>;
96.4	5:5,1.4	[F*]<5>; [G012*]<5>; [G012^c]<5>; [P025*%]<3>; [33*]<5>; [104*%]<3>; [365%]<5>; [vg^cl]<4>; [it-ar]<5>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [sy^p%]<6>; [Ex-147]<6>; [Ex-157]<3>; Ex-168\$<1>;
97.1	5:6,1.1	Autograph
97.2	5:6,1.2	[Ambst%]<5>; [Lcf%]<4>; Ex-168\$<1>;
98.1	5:6,2.1	Autograph
98.2	5:6,2.2	D06*<5>;
98.3	5:6,2.3	Irlat^a%<3>;
99.1	5:7,1.1	[D06^2]<4>; [614*]<5>; [629]<5>; [HF]<5>; [RP]<5>; [sy^p%]<6>; Autograph
99.2	5:7,1.2	[P^11%]<4>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [048%]<2>; [vg^b]<3>; [it-ar]<5>; [Ex-153]<4>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
100.1	5:7,2.1	[D06^2]<4>; Autograph
100.2	5:7,2.2	[C^3%]<4>; [sa^a%]<2>; [Ex-147]<6>; Ex-155#<1>;

101.1	5:8,1.1	Autograph
101.2	5:8,1.2	Ex-158<3>;
101.3	5:8,1.3	Ex-150<5>;
102.1	5:8,2.1	Autograph
102.2	5:8,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
103.1	5:9,1.1	Autograph
103.2	5:9,1.2	D06^1<2>;
104.1	5:10,1.1	Autograph
104.2	5:10,1.2	[D06^1]<2>; [vg^b]<3>; Ex-155#<1>;
105.1	5:10,2.1	[P^61%]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-d]<4>; [Ex-165#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
105.2	5:10,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-147]<6>; Autograph
106.1	5:10,3.1	[D06^2]<4>; [L019*%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
106.2	5:10,3.2	[B^2]<4>; [P025*%]<3>; [81*%]<3>; [1505*%]<3>; [Ex-152]<2>; [Ex-153]<4>; Ex-169\$<1>;
107.1	5:11,1.1	[01^1%]<4>; [D06^2]<4>; [L019*%]<6>; [630%]<6>; [RP]<5>; [sy^h%]<4>; [sy^p%]<6>; Autograph
107.2	5:11,1.2	[D06*]<5>; [104*%]<3>; [Ex-151]<3>; [Ex-154]<3>; Ex-169\$<1>;
108.1	5:11,2.1	[048%]<2>; [81*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [NA-27]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-150]<5>; [Ex-158]<3>; Autograph
108.2	5:11,2.2	[01^c%]<2>; [01^2]<2>; [B^2]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [L019*%]<6>; [6]<6>; [614*]<5>; [it-f*]<3>; [Ex-147]<6>; [Ex-165#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
109.1	5:12,1.1	[6]<6>; [sy^p%]<6>; Autograph
109.2	5:12,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [Ex-152]<2>; Ex-169\$<1>;
110.1	5:12,2.1	Autograph
110.2	5:12,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [sy^p%]<6>; Ex-168\$<1>;
111.1	5:13,1.1	Autograph
111.2	5:13,1.2	[L019*%]<6>; [044*]<3>; [629]<5>; [2464*%]<3>; [it-d]<4>; Ex-168\$<1>;
112.1	5:13,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
112.2	5:13,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [6]<6>; [Ex-150]<5>; Ex-168\$<1>;
112.3	5:13,2.3	Ex-151<3>;
113.1	6:1,1.1	Autograph
113.2	6:1,1.2	[P025*%]<3>; [33*]<5>; [104*%]<3>; [365%]<5>; [1881*]<7>; [Ex-157]<3>; Ex-168\$<1>;
114.1	6:2,1.1	[365%]<5>; [630%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
114.2	6:2,1.2	[Cyp^a%]<5>; [Ex-151]<3>; [Ex-153]<4>; Ex-169\$<1>;
115.1	6:2,2.1	[104*%]<3>; [NA-27]<2>; [it-g%]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-153]<4>; [Ex-158]<3>; Autograph

115.2	6:2,2.2	[01^c%]<2>; [01^2]<2>; [B^2]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-147]<6>; [Ex-165#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
116.1	6:5,1.1	Autograph
116.2	6:5,1.2	Ex-158<3>;
117.1	6:5,2.1	Autograph
117.2	6:5,2.2	[P^11%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; [104*%]<3>; [365%]<5>; [TR]<5>; [Ex-150]<5>; Ex-168\$<1>;
118.1	6:5,3.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
118.2	6:5,3.2	[P^11%]<4>; [D06*]<5>; [6]<6>; [Ex-147]<6>; Ex-168\$<1>;
118.3	6:5,3.3	Ex-151<3>;
119.1	6:5,4.1	Autograph
119.2	6:5,4.2	[vg^b]<3>; [it-f*]<3>; [it-g%]<2>; [bo^b%]<2>; [sy^p%]<6>; Ex-168\$<1>;
120.1	6:7,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06^1]<2>; Autograph
120.2	6:7,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [6]<6>; [1505*%]<3>; [Ex-154]<3>; Ex-169\$<1>;
121.1	6:7,2.1	Autograph
121.2	6:7,2.2	[01*]<4>; [01^c%]<2>; [01^1%]<4>; [01^2]<2>; [629]<5>; [sy^p%]<6>; [Ex-147]<6>; Ex-168\$<1>;
122.1	6:8,1.1	[D06^2]<4>; Autograph
122.2	6:8,1.2	Ex-151<3>;
123.1	6:10,1.1	[Cl^a%]<3>; [Cl^b%]<3>; [Spec%]<5>; Autograph
123.2	6:10,1.2	[Ex-151]<3>; [Ex-164]<2>; Ex-166#<1>;
124.1	6:10,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [6]<6>; [630%]<6>; [1739*]<6>; [sy^h%]<4>; Autograph
124.2	6:10,2.2	[Cl^a%]<3>; [Cl^b%]<3>; [Irrarm%]<4>; [Ex-150]<5>; [Ex-151]<3>; Ex-169\$<1>; [P^11%]<4>; [D06*]<5>; [Ambst%]<5>; [Cyp^a%]<5>; [Irlat^a%]<3>; [Tert%]<4>;
125.1	6:11,1.1	Autograph
125.2	6:11,1.2	[sa^a%]<2>; [Ex-152]<2>; [Ex-157]<3>; Ex-169\$<1>;
125.3	6:11,1.3	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [P025*%]<3>; [81*%]<3>; [104*%]<3>; [629]<5>; [2464*%]<3>; [bo^a%]<2>; [bo^b%]<2>; [sy^p%]<6>; [Ex-153]<4>; [Ex-158]<3>; Ex-166#<1>;
126.1	6:14,1.1	[P^46^1]<3>; [Ambst%]<5>; [Ex-147]<6>; [Ex-159]<3>; Autograph
126.2	6:14,1.2	[6]<6>; [it-g%]<2>; [it-t%]<2>; [Ex-150]<5>; [Ex-164]<2>; Ex-166#<1>;
126.3	6:14,1.3	[P^46*]<3>; [D06*]<5>; [P025*%]<3>; [Ex-157]<3>; Ex-169\$<1>;
127.1	6:15,1.1	Autograph
127.2	6:15,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [it-ar]<5>; [Meth%]<4>; [Ex-168\$]<1>; Ex-172\$<1>;
128.1	6:15,2.1	[P^11%]<4>; [01^1%]<4>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [P025*%]<3>; [81*%]<3>; [104*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [Ex-153]<4>; Autograph
128.2	6:15,2.2	Ex-161<2>;

129.1	6:15,3.1	Autograph
129.2	6:15,3.2	[P025*%]<3>; [044*]<3>; [81*%]<3>; [104*%]<3>; [630%]<6>; [1175*%]<3>; [1175^c%]<3>; [1739^c]<6>; [2495]<6>; [pm^b]<5>; Ex-168\$<1>;
129.3	6:15,3.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-169\$<1>;
130.1	6:16,1.1	Autograph
130.2	6:16,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [K*%]<2>; [L019*%]<6>; [044*]<3>; [6]<6>; [pm^b]<5>; [HF]<5>; [RP]<5>; [it-r%]<3>; [sy^h%]<4>; [Spec%]<5>; Ex-168\$<1>;
131.1	6:19,1.1	Autograph
131.2	6:19,1.2	[A^c]<4>; [L019*%]<6>; [044*]<3>; [33*]<5>; [81*%]<3>; [104*%]<3>; [365*%]<5>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [pm^b]<5>; [bo^a%]<2>; [sy^h%]<4>; [Ambst%]<5>; [Meth%]<4>; [Ex-147]<6>; Ex-168\$<1>;
132.1	6:19,2.1	Autograph
132.2	6:19,2.2	[629]<5>; [Ex-158]<3>; Ex-168\$<1>;
133.1	6:20,1.1	[vg^st]<4>; Autograph
133.2	6:20,1.2	[1505*%]<3>; [1611]<5>; [Ex-163]<2>; Ex-168\$<1>;
133.3	6:20,1.3	[01*]<4>; [2495]<6>; [it-d]<4>; [Irlat^a%]<3>; Ex-169\$<1>;
134.1	6:20,2.1	[6]<6>; [1739*]<6>; Autograph
134.2	6:20,2.2	[C^3%]<4>; [vg^b]<3>; [Ex-150]<5>; [Ex-152]<2>; Ex-169\$<1>;
135.1	7:1,1.1	vg^st<4>; [it-r%]<3>; Autograph
135.2	7:1,1.2	[vg^cl]<4>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-152]<2>; [Ex-157]<3>; Ex-166#<1>;
136.1	7:2,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
136.2	7:2,1.2	[sy^h%]<4>; [sy^p%]<6>; Ex-166#<1>;
137.1	7:2,2.1	Autograph
137.2	7:2,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
138.1	7:3,1.1	[D06^2]<4>; [6]<6>; Autograph
138.2	7:3,1.2	Ex-151<3>;
139.1	7:5,1.1	Autograph
139.2	7:5,1.2	[it-r%]<3>; [Cl^a%]<3>; [Cl^b%]<3>; [Ex-164]<2>; Ex-168\$<1>;
140.1	7:5,2.1	[D06^2]<4>; [044*]<3>; [6]<6>; Autograph
140.2	7:5,2.2	Ex-155#<1>;
141.1	7:5,3.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [it-r%]<3>; Autograph
141.2	7:5,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-152]<2>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
142.1	7:5,4.1	Autograph
142.2	7:5,4.2	Ex-158<3>;
143.1	7:7,1.1	[326]<5>; [629]<5>; [vg^st]<4>; [it-t%]<2>; Autograph
143.2	7:7,1.2	[vg^cl]<4>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-158]<3>; [Ex-169\$]<1>; Ex-172\$<1>;

144.1	7:7,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; [Cl^a%]<3>; [Cl^b%]<3>; Autograph
144.2	7:7,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
145.1	7:7,3.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; [Cl^a%]<3>; [Cl^b%]<3>; Autograph
145.2	7:7,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
146.1	7:9,1.1	[C^2%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; Autograph
146.2	7:9,1.2	[945]<6>; [Ex-161]<2>; Ex-169\$<1>;
147.1	7:10,1.1	[Cl^a%]<3>; [Cl^b%]<3>; [Epiph^a%]<3>; [Epiph^b%]<3>; Autograph
147.2	7:10,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; [Ex-147]<6>; [Ex-157]<3>; Ex-168\$<1>;
147.3	7:10,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [614*]<5>; Ex-169\$<1>;
148.1	7:13,1.1	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [01*]<4>; [01^1%]<4>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [P025*%]<3>; [1505*%]<3>; [NA-27]<2>; [sa^a%]<2>; Autograph
148.2	7:13,1.2	[Ex-152]<2>; [Ex-165#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
149.1	7:13,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
149.2	7:13,2.2	Ex-152<2>;
150.1	7:13,3.1	Autograph
150.2	7:13,3.2	[81*%]<3>; [1881*]<7>; [2464*%]<3>; [Ex-164]<2>; Ex-168\$<1>;
151.1	7:13,4.1	[D06^2]<4>; [sy^p%]<6>; Autograph
151.2	7:13,4.2	[Tert%]<4>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
152.1	7:14,1.1	Autograph
152.2	7:14,1.2	[D06^2]<4>; [629]<5>; [sy^p%]<6>; Ex-166#<1>;
153.1	7:14,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [044*]<3>; Autograph
153.2	7:14,2.2	[Ex-147]<6>; Ex-155#<1>;
153.3	7:14,2.3	[629]<5>; [sy^p%]<6>; Ex-166#<1>;
154.1	7:15,1.1	[K*%]<2>; [326]<5>; [NA-27]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-161]<2>; Ex-168\$<1>;
154.2	7:15,1.2	[Ex-153]<4>; Autograph
155.1	7:17,1.1	Autograph
155.2	7:17,1.2	[323*]<5>; [614*]<5>; Ex-168\$<1>;
156.1	7:17,2.1	[P^46*]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [NA-27]<2>; [Ex-147]<6>; [Ex-157]<3>; Autograph
156.2	7:17,2.2	Ex-165#<1>;
157.1	7:17,3.1	[D06^2]<4>; [sy^p%]<6>; Autograph
157.2	7:17,3.2	Ex-151<3>;
157.3	7:17,3.3	[044*]<3>; [629]<5>; [vg^b]<3>; [Ex-147]<6>; Ex-169\$<1>;
158.1	7:17,4.1	[D06^2]<4>; [sy^p%]<6>; Autograph

158.2	7:17,4.2	Ex-151<3>;
158.3	7:17,4.3	[044*]<3>; [629]<5>; [vg^b]<3>; [Ex-147]<6>; Ex-169\$<1>;
159.1	7:17,5.1	[D06^c%]<3>; [D06^1]<2>; Autograph
159.2	7:17,5.2	Ex-166#<1>;
160.1	7:18,1.1	Autograph
160.2	7:18,1.2	[P^15%]<2>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [044*]<3>; [Ex-147]<6>; Ex-168\$<1>;
160.3	7:18,1.3	Ex-151<3>;
161.1	7:20,1.1	Autograph
161.2	7:20,1.2	[P^15%]<2>; [1739^c]<6>; [it-ar]<5>; [Ambst%]<5>; Ex-168\$<1>;
162.1	7:21,1.1	Autograph
162.2	7:21,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [it-ar]<5>; Ex-168\$<1>;
163.1	7:22,1.1	[it-r%]<3>; [Ex-159]<3>; Autograph
163.2	7:22,1.2	[Ex-151]<3>; Ex-166#<1>;
163.3	7:22,1.3	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; Ex-169\$<1>;
164.1	7:24,1.1	Autograph
164.2	7:24,1.2	309<5>;
165.1	7:28,1.1	Autograph
165.2	7:28,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [sy^p%]<6>; Ex-168\$<1>;
166.1	7:28,2.1	Autograph
166.2	7:28,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-158]<3>; Ex-168\$<1>;
167.1	7:29,1.1	Autograph
167.2	7:29,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [044*]<3>; [104*%]<3>; Ex-168\$<1>;
168.1	7:29,2.1	Autograph
168.2	7:29,2.2	[P^15%]<2>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Did^a%]<3>; Ex-168\$<1>;
169.1	7:31,1.1	Autograph
169.2	7:31,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [81*%]<3>; [1739*]<6>; [sa^a%]<2>; Ex-168\$<1>;
169.3	7:31,1.3	[D06^1]<2>; [Eus^a%]<3>; [Eus^b%]<3>; [Ex-150]<5>; Ex-155#<1>;
170.1	7:31,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
170.2	7:31,2.2	L019*%<6>;
170.3	7:31,2.3	[044*]<3>; Ex-166#<1>;
171.1	7:32,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
171.2	7:32,1.2	Ex-166#<1>;
172.1	7:34,1.1	[6]<6>; [HF]<5>; [RP]<5>; [sy^h%]<4>; Autograph

172.2	7:34,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-152]<2>; Ex-169\$<1>;
172.3	7:34,1.3	sy^p%<6>;
172.4	7:34,1.4	[D06*]<5>; [629]<5>; [it-f*]<3>; [Ex-168\$]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
173.1	7:34,2.1	[P^15%]<2>; [P025*%]<3>; [6]<6>; [104*%]<3>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [NA-27]<2>; [it-t%]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-158]<3>; [Ex-166#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
173.2	7:34,2.2	it-f*<3>;
173.3	7:34,2.3	[D06^c%]<3>; [D06^1]<2>; [Ex-152]<2>; [Ex-160]<3>; Ex-168\$<1>;
173.4	7:34,2.4	Autograph
174.1	7:34,3.1	Autograph
174.2	7:34,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [P025*%]<3>; [33*]<5>; [629]<5>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [TR]<5>; [vg^cl]<4>; [it-ar]<5>; [it-t%]<2>; [sy^p%]<6>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-157]<3>; Ex-168\$<1>;
175.1	7:34,4.1	Autograph
175.2	7:34,4.2	[Tert%]<4>; [Ex-158]<3>; Ex-168\$<1>;
176.1	7:35,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Auto-graph
176.2	7:35,1.2	[P^15%]<2>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
177.1	7:35,2.1	Autograph
177.2	7:35,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [Eus^a%]<3>; [Eus^b%]<3>; [Ex-150]<5>; Ex-155#<1>;
178.1	7:35,3.1	Autograph
178.2	7:35,3.2	P^15%<2>;
179.1	7:36,1.1	Autograph
179.2	7:36,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; [vg^st]<4>; [it-d]<4>; [sy^p%]<6>; Ex-168\$<1>;
180.1	7:37,1.1	[D06*]<5>; [D06^2]<4>; [it-ar]<5>; Autograph
180.2	7:37,1.2	[1505*%]<3>; [Ex-147]<6>; Ex-155#<1>;
180.3	7:37,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-160]<3>; Ex-169\$<1>;
181.1	7:37,2.1	Autograph
181.2	7:37,2.2	P^15%<2>;
182.1	7:38,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [CI^a%]<3>; [CI^b%]<3>; Autograph
182.2	7:38,1.2	Ex-155#<1>;
183.1	7:38,2.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; [sy^p%]<6>; Autograph
183.2	7:38,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [629]<5>; [CI^a%]<3>; [CI^b%]<3>; [Ex-164]<2>; Ex-168\$<1>;
183.3	7:38,2.3	Ex-152<2>;
184.1	7:38,3.1	[630%]<6>; Autograph
184.2	7:38,3.2	[P^15%]<2>; [6]<6>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;

185.1	7:38,4.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Cl^a%]<3>; [Cl^b%]<3>; Autograph
185.2	7:38,4.2	Ex-155#<1>;
186.1	7:39,1.1	[6]<6>; Autograph
186.2	7:39,1.2	[D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^cl]<4>; [it-ar]<5>; [Ambst%]<5>; [Epiph^a%]<3>; [Epiph^b%]<3>; Ex-155#<1>;
186.3	7:39,1.3	[K*%]<2>; [bo^a%]<2>; [bo^b%]<2>; Ex-168\$<1>;
187.1	7:39,2.1	[365%]<5>; [630%]<6>; [TR]<5>; [sy^p%]<6>; Autograph
187.2	7:39,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; [Ex-152]<2>; [Ex-153]<4>; Ex-169\$<1>;
188.1	7:39,3.1	Autograph
188.2	7:39,3.2	[Cl^a%]<3>; [Cl^b%]<3>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-157]<3>; Ex-168\$<1>;
189.1	7:40,1.1	Autograph
189.2	7:40,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Cl^a%]<3>; [Cl^b%]<3>; Ex-168\$<1>;
190.1	7:40,2.1	Autograph
190.2	7:40,2.2	[6]<6>; [104*%]<3>; [2464*%]<3>; [it-t%]<2>; [sy^h%]<4>; [Ex-153]<4>; [Ex-158]<3>; Ex-168\$<1>;
191.1	7:40,3.1	Autograph
191.2	7:40,3.2	[P^15%]<2>; [33*]<5>; Ex-168\$<1>;
192.1	7:40,4.1	[D06*]<5>; [it-ar]<5>; Autograph
192.2	7:40,4.2	[Tert%]<4>; [Ex-160]<3>; Ex-169\$<1>;
193.1	8:1,1.1	Autograph
193.2	8:1,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [vg^b]<3>; [it-ar]<5>; [sy^p%]<6>; Ex-168\$<1>;
194.1	8:2,1.1	vg^st<4>; [Ambst%]<5>; [Cl^a%]<3>; [Cl^b%]<3>; [Cyp^a%]<5>; Autograph
194.2	8:2,1.2	D06* <5>; D06^c% <3>; D06^1 <2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^cl]<4>; Ex-151<3>;
195.1	8:2,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [365%]<5>; [630%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
195.2	8:2,2.2	[K*%]<2>; [1505*%]<3>; [Ex-151]<3>; [Ex-153]<4>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
195.3	8:2,2.3	326<5>;
196.1	8:2,3.1	Autograph
196.2	8:2,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ambst%]<5>; Ex-168\$<1>;
197.1	8:2,4.1	[Cl^a%]<3>; [Cl^b%]<3>; Autograph
197.2	8:2,4.2	D06* <5>; F* <5>; G012* <5>; G012^c <5>; 044* <3>;
197.3	8:2,4.3	Ex-151<3>;
198.1	8:3,1.1	Autograph
198.2	8:3,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Cl^a%]<3>; [Cl^b%]<3>; Ex-168\$<1>;
199.1	8:3,2.1	[01^1%]<4>; [365%]<5>; [Ex-150]<5>; Autograph

199.2	8:3,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [CI^a%]<3>; [CI^b%]<3>; [Ex-154]<3>; Ex-169\$<1>;
200.1	8:4,1.1	[D06^2]<4>; [044*]<3>; [6]<6>; Autograph
200.2	8:4,1.2	Ex-155#<1>;
201.1	8:6,1.1	Autograph
201.2	8:6,1.2	[33*]<5>; [it-b*]<5>; [sa^a%]<2>; [Irlat^a%]<3>; [Ex-164]<2>; Ex-168\$<1>;
202.1	8:6,2.1	Autograph
202.2	8:6,2.2	Ex-158<3>;
203.1	8:6,3.1	Autograph
203.2	8:6,3.2	[630%]<6>; [Ex-147]<6>; Ex-168\$<1>;
204.1	8:7,1.1	[044*]<3>; [vg^b]<3>; Ex-165#<1>;
204.2	8:7,1.2	Autograph
205.1	8:7,2.1	Autograph
205.2	8:7,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [629]<5>; [CI^a%]<3>; [CI^b%]<3>; [Ex-147]<6>; Ex-168\$<1>;
206.1	8:8,1.1	[01^1%]<4>; [Ex-150]<5>; Autograph
206.2	8:8,1.2	[044*]<3>; [1881*]<7>; [Ex-154]<3>; Ex-169\$<1>;
207.1	8:8,2.1	[6]<6>; [CI^a%]<3>; [CI^b%]<3>; Ex-165#<1>;
207.2	8:8,2.2	[Or^a%]<4>; [Ex-147]<6>; Autograph
208.1	8:8,3.1	[81*%]<3>; [NA-27]<2>; [vg^st]<4>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
208.2	8:8,3.2	[vg^cl]<4>; [CI^a%]<3>; [CI^b%]<3>; [Or^a%]<4>; [Or^b%]<3>; [Tert%]<4>; [Ex-147]<6>; Autograph
208.3	8:8,3.3	A* <4>;
209.1	8:10,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
209.2	8:10,1.2	[Ex-164]<2>; Ex-166#<1>;
210.1	8:11,1.1	[CI^a%]<3>; [CI^b%]<3>; Ex-165#<1>;
210.2	8:11,1.2	[P025*%]<3>; [Ex-157]<3>; Ex-168\$<1>;
210.3	8:11,1.3	[6]<6>; [81*%]<3>; [104*%]<3>; [365%]<5>; [Ex-150]<5>; Autograph
210.4	8:11,1.4	[F*]<5>; [G012*]<5>; [G012^c]<5>; [sa^a%]<2>; [Ambst%]<5>; [Ex-151]<3>; [Ex-163]<2>; [Ex-169\$]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
211.1	8:11,2.1	[D06^2]<4>; Autograph
211.2	8:11,2.2	[01^2]<2>; [P025*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [sy^h%]<4>; [Ex-150]<5>; Ex-168\$<1>;
211.3	8:11,2.3	[Ex-147]<6>; [Ex-152]<2>; Ex-169\$<1>;
212.1	8:12,1.1	Autograph
212.2	8:12,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
213.1	8:13,1.1	Autograph
213.2	8:13,1.2	[CI^a%]<3>; [CI^b%]<3>; [Ex-156]<4>; Ex-168\$<1>;
214.1	8:13,2.1	Autograph
214.2	8:13,2.2	[CI^a%]<3>; [CI^b%]<3>; [Ex-156]<4>; Ex-168\$<1>;

215.1	9:1,1.1	[629]<5>; [sy^p%]<6>; Autograph
215.2	9:1,1.2	[D06^1]<2>; [Ex-152]<2>; [Ex-162]<2>; Ex-169\$<1>;
216.1	9:2,1.1	Autograph
216.2	9:2,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
217.1	9:5,1.1	[D06*]<5>; Autograph
217.2	9:5,1.2	[Tert%]<4>; [Ex-156]<4>; Ex-168\$<1>;
218.1	9:7,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; vg^st<4>; [Pel%]<5>; Ex-165#<1>;
218.2	9:7,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C^3%]<4>; [vg^cl]<4>; [it-g%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-147]<6>; Autograph
219.1	9:7,2.1	[Ex-147]<6>; Autograph
219.2	9:7,2.2	[C^2%]<4>; [D06^2]<4>; [044*]<3>; [81*%]<3>; [104*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [sa^a%]<2>; [sy^h%]<4>; [Ex-150]<5>; [Ex-158]<3>; Ex-166#<1>;
220.1	9:8,1.1	Autograph
220.2	9:8,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [it-f*]<3>; Ex-168\$<1>;
220.3	9:8,1.3	[D06^2]<4>; Ex-166#<1>;
221.1	9:9,1.1	Autograph
221.2	9:9,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [it-b*]<5>; [Ambst%]<5>; Ex-168\$<1>;
221.3	9:9,1.3	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-169\$<1>;
222.1	9:9,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [NA-27]<2>; [Ex-144]<4>; [Ex-150]<5>; Ex-168\$<1>;
222.2	9:9,2.2	[D06^1]<2>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-147]<6>; Autograph
223.1	9:10,1.1	[sy^h%]<4>; [sy^p%]<6>; Autograph
223.2	9:10,1.2	[D06^1]<2>; [104*%]<3>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-162]<2>; [Ex-169\$]<1>; Ex-172\$<1>;
224.1	9:12,1.1	[it-t%]<2>; [Ex-151]<3>; Autograph
224.2	9:12,1.2	[01*]<4>; [01^1%]<4>; [D06*]<5>; [L019*%]<6>; [81*%]<3>; [614*]<5>; [629]<5>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
225.1	9:13,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; [it-ar]<5>; Autograph
225.2	9:13,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [33*]<5>; [Ex-147]<6>; [Ex-152]<2>; [Ex-157]<3>; [Ex-160]<3>; Ex-169\$<1>;
226.1	9:13,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Eus^a%<3>; Eus^b%<3>; Autograph
226.2	9:13,2.2	Ex-155#<1>;
227.1	9:15,1.1	[D06*]<5>; [D06^c%]<3>; [it-b*]<5>; [Ambst%]<5>; [Pel%]<5>; [Tert%]<4>; Ex-165#<1>;
227.2	9:15,1.2	[1175*%]<3>; [1175^c%]<3>; [Ex-157]<3>; Ex-168\$<1>;
227.3	9:15,1.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-169\$<1>;

227.4	9:15,1.4	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; Autograph
228.1	9:16,1.1	Autograph
228.2	9:16,1.2	[01*]<4>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
229.1	9:16,2.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [945]<6>; [NA-27]<2>; [it-ar]<5>; [Ex-158]<3>; Ex-166#<1>;
229.2	9:16,2.2	[Ex-160]<3>; Autograph
229.3	9:16,2.3	[P025*%]<3>; [104*%]<3>; [614*]<5>; [1175*%]<3>; [1175^c%]<3>; [Ex-147]<6>; [Ex-148]<5>; Ex-168\$<1>;
230.1	9:17,1.1	Autograph
230.2	9:17,1.2	1505*%<3>;
231.1	9:18,1.1	[6]<6>; [sy^p%]<6>; Autograph
231.2	9:18,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
231.3	9:18,1.3	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-170\$<1>;
232.1	9:18,2.1	Autograph
232.2	9:18,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-151]<3>; Ex-168\$<1>;
233.1	9:20,1.1	[630%]<6>; [Ex-147]<6>; Autograph
233.2	9:20,1.2	[F*]<5>; [G012*]<5>; [6]<6>; [326]<5>; [CI^a%]<3>; [CI^b%]<3>; [Ex-150]<5>; Ex-169\$<1>;
234.1	9:20,2.1	[sy^h%]<4>; Autograph
234.2	9:20,2.2	[Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
235.1	9:21,1.1	[sy^h%]<4>; Autograph
235.2	9:21,1.2	Ex-152<2>;
236.1	9:21,2.1	[sy^h%]<4>; Autograph
236.2	9:21,2.2	Ex-152<2>;
237.1	9:21,3.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
237.2	9:21,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
238.1	9:21,4.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; Autograph
238.2	9:21,4.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-155#<1>;
239.1	9:22,1.1	Autograph
239.2	9:22,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [vg^b]<3>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-147]<6>; Ex-155#<1>;
240.1	9:22,2.1	Autograph
240.2	9:22,2.2	[D06^2]<4>; [33*]<5>; Ex-166#<1>;
241.1	9:23,1.1	[D06^2]<4>; [6]<6>; Autograph
241.2	9:23,1.2	Ex-152<2>;
242.1	9:25,1.1	Autograph
242.2	9:25,1.2	[K*%]<2>; [CI^a%]<3>; [CI^b%]<3>; Ex-168\$<1>;

243.1	10:2,1.1	[D06^2]<4>; [630%]<6>; Autograph
243.2	10:2,1.2	[Ex-150]<5>; [Ex-151]<3>; [Ex-164]<2>; Ex-169\$<1>;
243.3	10:2,1.3	P^46*<3>;
244.1	10:3,1.1	Autograph
244.2	10:3,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [Ex-157]<3>; Ex-168\$<1>;
244.3	10:3,1.3	01*<4>;
245.1	10:4,1.1	Autograph
245.2	10:4,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-157]<3>; Ex-168\$<1>;
246.1	10:4,2.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [629]<5>; Autograph
246.2	10:4,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06^1]<2>; [33*]<5>; [Ex-147]<6>; [Ex-152]<2>; [Ex-157]<3>; Ex-168\$<1>;
247.1	10:5,1.1	Autograph
247.2	10:5,1.2	81*%<3>;
248.1	10:8,1.1	[01*]<4>; Autograph
248.2	10:8,1.2	[D06^1]<2>; [vg^b]<3>; [Irlat^a%]<3>; Ex-155#<1>; [Ex-161]<2>;
249.1	10:8,2.1	Autograph
249.2	10:8,2.2	[81*%]<3>; [vg^b]<3>; [sy^h%]<4>; Ex-168\$<1>;
250.1	10:9,1.1	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [NA-27]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-150]<5>; Autograph
250.2	10:9,1.2	[01^c%]<2>; [01^2]<2>; [326]<5>; [Ex-165#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
250.3	10:9,1.3	[81*%]<3>; [Ex-157]<3>; Ex-169\$<1>;
251.1	10:9,2.1	Autograph
251.2	10:9,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [01^c%]<2>; [01^2]<2>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [P025*%]<3>; [81*%]<3>; [104*%]<3>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [Ex-154]<3>; Ex-168\$<1>;
252.1	10:9,3.1	Autograph
252.2	10:9,3.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-152]<2>; [Ex-153]<4>; Ex-168\$<1>;
253.1	10:10,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [Ex-150]<5>; Autograph
253.2	10:10,1.2	[01^c%]<2>; [01^2]<2>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [bo^a%]<2>; [bo^b%]<2>; [Ex-154]<3>; Ex-169\$<1>;
254.1	10:10,2.1	[01*]<4>; [01^1%]<4>; [P025*%]<3>; Autograph
254.2	10:10,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [044*]<3>; [6]<6>; [Ex-161]<2>; Ex-169\$<1>;
254.3	10:10,2.3	Ex-151<3>;
255.1	10:11,1.1	[Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-165#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;

255.2	10:11,1.2	[01*]<4>; [01^c%]<2>; [01^1%]<4>; [01^2]<2>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [81*]<3>; [Irm%]<4>; [Irlat^a%]<3>; Ex-168\$<1>;
255.3	10:11,1.3	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; Autograph
256.1	10:11,2.1	Autograph
256.2	10:11,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-152]<2>; [Ex-157]<3>; Ex-168\$<1>;
257.1	10:13,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
257.2	10:13,1.2	Ex-166#<1>;
258.1	10:13,2.1	Autograph
258.2	10:13,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
259.1	10:13,3.1	Autograph
259.2	10:13,3.2	[1175*%]<3>; [1175^c%]<3>; [Ex-158]<3>; Ex-168\$<1>;
260.1	10:13,4.1	[D06*]<5>; [D06^c%]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [L019*%]<6>; [6]<6>; Autograph
260.2	10:13,4.2	Ex-155#<1>;
261.1	10:16,1.1	Autograph
261.2	10:16,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [365%]<5>; [Irlat^b%]<4>; [Ex-168\$]<1>; Ex-172\$<1>;
262.1	10:16,2.1	[it-ar]<5>; Ex-165#<1>;
262.2	10:16,2.2	[Ex-154]<3>; Autograph
263.1	10:17,1.1	[it-e%]<2>; [Ex-159]<3>; Autograph
263.2	10:17,1.2	[D06^2]<4>; [629]<5>; [it-g%]<2>; [it-t%]<2>; Ex-166#<1>;
264.1	10:18,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [NA-27]<2>; [Ex-161]<2>; Ex-168\$<1>;
264.2	10:18,1.2	[D06^1]<2>; [Ex-147]<6>; Autograph
265.1	10:19,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
265.2	10:19,1.2	[D06^2]<4>; Ex-166#<1>;
266.1	10:19,2.1	[01^1%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [K*%]<2>; [L019*%]<6>; [P025*%]<3>; [81*%]<3>; [104*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [NA-27]<2>; [it-g%]<2>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-153]<4>; [Ex-158]<3>; Autograph
266.2	10:19,2.2	[vg^b]<3>; [Ex-147]<6>; [Ex-148]<5>; [Ex-165#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
267.1	10:19,3.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
267.2	10:19,3.2	[D06^2]<4>; Ex-166#<1>;
268.1	10:20,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [NA-27]<2>; [Ambst%]<5>; [Spec%]<5>; [Ex-158]<3>; Ex-168\$<1>;
268.2	10:20,1.2	Autograph
269.1	10:20,2.1	Autograph
269.2	10:20,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [104*%]<3>; [1505*%]<3>; [Ex-147]<6>; [Ex-151]<3>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
270.1	10:20,3.1	Autograph

270.2	10:20,3.2	[D06*]<5>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
270.3	10:20,3.3	[Cl^a%]<3>; [Cl^b%]<3>; Ex-169\$<1>;
271.1	10:23,1.1	[D06^2]<4>; Autograph
271.2	10:23,1.2	[C^3%]<4>; [P025*%]<3>; [1739*]<6>; [vg^cl]<4>; Ex-155#<1>;
272.1	10:23,2.1	[D06^2]<4>; Autograph
272.2	10:23,2.2	[C^3%]<4>; [P025*%]<3>; [1739*]<6>; [vg^cl]<4>; Ex-155#<1>;
273.1	10:24,1.1	[6]<6>; Autograph
273.2	10:24,1.2	Ex-152<2>;
274.1	10:27,1.1	[D06^c%]<3>; [D06^1]<2>; [it-e%]<2>; [Ex-159]<3>; Autograph
274.2	10:27,1.2	[it-g%]<2>; [it-t%]<2>; [sa^a%]<2>; Ex-166#<1>;
275.1	10:27,2.1	Autograph
275.2	10:27,2.2	Ex-157<3>;
276.1	10:28,1.1	[1739*]<6>; [it-b*]<5>; [Ambst%]<5>; Autograph
276.2	10:28,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [bo^a%]<2>; [bo^b%]<2>; [Ex-152]<2>; [Ex-153]<4>; Ex-166#<1>;
277.1	10:28,2.1	Autograph
277.2	10:28,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
278.1	10:28,3.1	[D06^2]<4>; [sy^p%]<6>; Autograph
278.2	10:28,3.2	[C^3%]<4>; [H015^c%]<2>; [Ex-152]<2>; Ex-169\$<1>;
279.1	10:29,1.1	[D06*]<5>; Autograph
279.2	10:29,1.2	[vg^b]<3>; [Ex-160]<3>; Ex-168\$<1>;
280.1	10:31,1.1	Autograph
280.2	10:31,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Spec%]<5>; Ex-168\$<1>;
281.1	10:33,1.1	Ex-165#<1>;
281.2	10:33,1.2	[Ex-153]<4>; Autograph
282.1	11:2,1.1	Autograph
282.2	11:2,1.2	[33*]<5>; [Ex-152]<2>; Ex-166#<1>;
283.1	11:2,2.1	[D06*]<5>; [it-ar]<5>; Autograph
283.2	11:2,2.2	Ex-160<3>;
284.1	11:3,1.1	[Cl^a%]<3>; [Cl^b%]<3>; Autograph
284.2	11:3,1.2	D06*<5>; F*<5>; [G012*]<5>; [G012^c]<5>; Ex-144<4>;
285.1	11:5,1.1	[L019*%]<6>; [365%]<5>; [630%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
285.2	11:5,1.2	[Ex-151]<3>; [Ex-153]<4>; [Ex-158]<3>; Ex-169\$<1>;
286.1	11:9,1.1	Autograph
286.2	11:9,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
287.1	11:10,1.1	Autograph
287.2	11:10,1.2	[vg^b]<3>; [bo^b%]<2>; [Ptol^Ir%]<3>; Ex-168\$<1>;

288.1	11:14,1.1	[sy^h%]<4>; [sy^p%]<6>; Autograph
288.2	11:14,1.2	[D06^1]<2>; [sa^a%]<2>; [Ex-151]<3>; Ex-169\$<1>;
289.1	11:15,1.1	[TR]<5>; [sy^p%]<6>; Autograph
289.2	11:15,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06^c%]<3>; [D06^1]<2>; [Ex-152]<2>; [Ex-160]<3>; Ex-169\$<1>;
289.3	11:15,1.3	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [H015*%]<2>; [H015^c%]<2>; [P025*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [it-ar]<5>; [sy^h%]<4>; [Ex-150]<5>; [Ex-166#]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
290.1	11:17,1.1	[01*]<4>; [01^1%]<4>; [NA-27]<2>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-160]<3>; [Ex-168\$]<1>; Ex-172\$<1>;
290.2	11:17,1.2	[6]<6>; [326]<5>; [Ambst%]<5>; Autograph
290.3	11:17,1.3	Ex-164<2>;
290.4	11:17,1.4	[D06*]<5>; [81*%]<3>; [it-b*]<5>; Ex-169\$<1>;
291.1	11:17,2.1	[01*]<4>; [01^1%]<4>; [NA-27]<2>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-160]<3>; [Ex-168\$]<1>; Ex-172\$<1>;
291.2	11:17,2.2	[6]<6>; [326]<5>; [Ambst%]<5>; Autograph
291.3	11:17,2.3	Ex-164<2>;
291.4	11:17,2.4	[D06*]<5>; [81*%]<3>; [it-b*]<5>; Ex-169\$<1>;
292.1	11:19,1.1	[D06^c%]<3>; [D06^1]<2>; Autograph
292.2	11:19,1.2	Ex-166#<1>;
293.1	11:19,2.1	[D06*]<5>; [6]<6>; [1175*%]<3>; [1175^c%]<3>; [NA-27]<2>; [sa^a%]<2>; [bo^b%]<2>; [Ambst%]<5>; [Ex-153]<4>; [Ex-159]<3>; [Ex-164]<2>; Ex-168\$<1>;
293.2	11:19,2.2	Autograph
294.1	11:19,3.1	Autograph
294.2	11:19,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [2464*%]<3>; Ex-168\$<1>;
295.1	11:20,1.1	Autograph
295.2	11:20,1.2	33*<5>;
295.3	11:20,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; Ex-168\$<1>;
296.1	11:22,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [vg^b]<3>; Autograph
296.2	11:22,1.2	[Ex-164]<2>; Ex-166#<1>;
297.1	11:22,2.1	Autograph
297.2	11:22,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
298.1	11:23,1.1	Autograph
298.2	11:23,1.2	[D06^2]<4>; Ex-166#<1>;
298.3	11:23,1.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; [365%]<5>; [it-d]<4>; Ex-168\$<1>;
299.1	11:23,2.1	Autograph
299.2	11:23,2.2	Ex-158<3>;
300.1	11:23,3.1	Autograph
300.2	11:23,3.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;

301.1	11:24,1.1	[D06^2]<4>; [6]<6>; [vg^st]<4>; Autograph
301.2	11:24,1.2	[C^3%]<4>; [vg^cl]<4>; [it-t%]<2>; [Ex-152]<2>; Ex-169\$<1>;
302.1	11:24,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Auto-graph
302.2	11:24,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
303.1	11:24,3.1	Autograph
303.2	11:24,3.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
304.1	11:24,4.1	[6]<6>; [1739*]<6>; [vg^st]<4>; [Cyp^a%]<5>; Autograph
304.2	11:24,4.2	[C^3%]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; Ex-155#<1>;
304.3	11:24,4.3	D06*<5>;
304.4	11:24,4.4	[sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; Ex-169\$<1>;
305.1	11:25,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Auto-graph
305.2	11:25,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [P025*%]<3>; [33*]<5>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [Ex-157]<3>; Ex-168\$<1>;
306.1	11:26,1.1	Autograph
306.2	11:26,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C^3%]<4>; [D06^1]<2>; [1739^c]<6>; [it-ar]<5>; [bo^a%]<2>; [bo^b%]<2>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
307.1	11:27,1.1	[D06^2]<4>; [1739*]<6>; [sy^h%]<4>; Autograph
307.2	11:27,1.2	[I%]<4>; [vg^cl]<4>; [it-ar]<5>; [bo^a%]<2>; [bo^b%]<2>; [Ambst%]<5>; [Ex-150]<5>; [Ex-151]<3>; Ex-169\$<1>;
308.1	11:27,2.1	Autograph
308.2	11:27,2.2	[01*]<4>; [01^c%]<2>; [01^1%]<4>; [01^2]<2>; [D06^2]<4>; [L019*%]<6>; [326]<5>; [1505*%]<3>; [sy^h%]<4>; [Ambst%]<5>; Ex-168\$<1>;
309.1	11:29,1.1	[6]<6>; Ex-165#<1>;
309.2	11:29,1.2	[C^3%]<4>; [Ex-147]<6>; Autograph
310.1	11:29,2.1	[6]<6>; vg^st<4>; [Pel%]<5>; Ex-165#<1>;
310.2	11:29,2.2	[C^3%]<4>; [1881^c]<7>; [vg^cl]<4>; [it-g%]<2>; Autograph
311.1	11:31,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [CI^a%]<3>; [CI^b%]<3>; Autograph
311.2	11:31,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [Ex-147]<6>; Ex-155#<1>;
312.1	11:32,1.1	[TR]<5>; [CI^a%]<3>; [CI^b%]<3>; Autograph
312.2	11:32,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; [Ex-152]<2>; [Ex-157]<3>; Ex-168\$<1>;
313.1	11:34,1.1	Autograph
313.2	11:34,1.2	[vg^b]<3>; [it-b*]<5>; [CI^a%]<3>; [CI^b%]<3>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
314.1	12:2,1.1	[D06*]<5>; Autograph
314.2	12:2,1.2	[K*%]<2>; [2464*%]<3>; Ex-168\$<1>;

314.3	12:2,1.3	[629]<5>; [TR]<5>; [vg^b]<3>; [sy^p%]<6>; [Ex-160]<3>; Ex-169\$<1>;
315.1	12:2,2.1	[D06*]<5>; Autograph
315.2	12:2,2.2	Ex-156<4>;
316.1	12:2,3.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
316.2	12:2,3.2	[B^2]<4>; [F*]<5>; [G012^c]<5>; Ex-169\$<1>;
316.3	12:2,3.3	Ex-166#<1>;
317.1	12:3,1.1	Autograph
317.2	12:3,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-ar]<5>; [Ambst%]<5>; [Spec%]<5>; Ex-168\$<1>;
318.1	12:3,2.1	[6]<6>; [Did^a%]<3>; Autograph
318.2	12:3,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [G012*]<5>; [G012^c]<5>; [vg^b]<3>; [it-ar]<5>; [Ambst%]<5>; [Ex-152]<2>; Ex-169\$<1>;
318.3	12:3,2.3	[629]<5>; Ex-166#<1>;
319.1	12:3,3.1	[6]<6>; Autograph
319.2	12:3,3.2	[D06^c%]<3>; [D06^1]<2>; [vg^b]<3>; [Ex-152]<2>; [Ex-160]<3>; Ex-168\$<1>;
320.1	12:6,1.1	[Ex-147]<6>; Autograph
320.2	12:6,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [81*%]<3>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
321.1	12:6,2.1	[D06^2]<4>; [044*]<3>; [630%]<6>; [Ex-147]<6>; Autograph
321.2	12:6,2.2	[Ex-150]<5>; [Ex-158]<3>; Ex-169\$<1>;
321.3	12:6,2.3	[1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; Ex-155#<1>;
322.1	12:9,1.1	[6]<6>; [sy^p%]<6>; Autograph
322.2	12:9,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [33*]<5>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-169\$]<1>; Ex-172\$<1>;
323.1	12:9,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
323.2	12:9,2.2	[2138]<5>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
324.1	12:9,3.1	[044*]<3>; Autograph
324.2	12:9,3.2	[01*]<4>; [01^1%]<4>; [C^3%]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [0201%]<3>; [Cl^a%]<3>; [Cl^b%]<3>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
324.3	12:9,3.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-169\$<1>;
325.1	12:10,1.1	Autograph
325.2	12:10,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; Ex-168\$<1>;
326.1	12:10,2.1	Autograph
326.2	12:10,2.2	[D06^2]<4>; [6]<6>; [Ex-150]<5>; [Ex-164]<2>; Ex-166#<1>;
327.1	12:10,3.1	Autograph
327.2	12:10,3.2	[D06^2]<4>; [6]<6>; [Ex-150]<5>; [Ex-164]<2>; Ex-166#<1>;

328.1	12:10,4.1	[Ex-150]<5>; Autograph
328.2	12:10,4.2	[01^c%]<2>; [01^2]<2>; [P025*%]<3>; [0201%]<3>; [1175*%]<3>; [1175^c%]<3>; [sa^a%]<2>; [sy^p%]<6>; [Ex-154]<3>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
329.1	12:10,5.1	[D06^2]<4>; [6]<6>; Autograph
329.2	12:10,5.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [33*]<5>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-169\$]<1>; Ex-172\$<1>;
330.1	12:10,6.1	Autograph
330.2	12:10,6.2	[D06*]<5>; [Ex-157]<3>; Ex-168\$<1>;
331.1	12:11,1.1	[D06^1]<2>; [Cl^a%]<3>; [Cl^b%]<3>; Autograph
331.2	12:11,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [0201%]<3>; [1175*%]<3>; [1175^c%]<3>; [sy^p%]<6>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
332.1	12:12,1.1	[L019*%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
332.2	12:12,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [it-b*]<5>; [Ambst%]<5>; Ex-155#<1>;
333.1	12:13,1.1	[365%]<5>; [630%]<6>; [sy^h%]<4>; [sy^p%]<6>; Autograph
333.2	12:13,1.2	[2464*%]<3>; [vg^cl]<4>; [it-f*]<3>; [Ex-151]<3>; [Ex-153]<4>; Ex-169\$<1>;
334.1	12:13,2.1	Autograph
334.2	12:13,2.2	[630%]<6>; [1505*%]<3>; [sy^h%]<4>; [Cl^a%]<3>; [Cl^b%]<3>; [Ex-147]<6>; Ex-168\$<1>;
334.3	12:13,2.3	Ex-157<3>;
335.1	12:18,1.1	[D06^1]<2>; Autograph
335.2	12:18,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1505*%]<3>; [Ex-157]<3>; [Ex-158]<3>; Ex-168\$<1>;
336.1	12:19,1.1	Autograph
336.2	12:19,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [Ex-158]<3>; Ex-168\$<1>;
337.1	12:20,1.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
337.2	12:20,1.2	[P^46*]<3>; [6]<6>; [vg^b]<3>; [Ex-156]<4>; [Ex-158]<3>; Ex-169\$<1>;
338.1	12:21,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [vg^cl]<4>; [Ambst%]<5>; Autograph
338.2	12:21,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [P025*%]<3>; [33*]<5>; [104*%]<3>; [326]<5>; [365%]<5>; [614*]<5>; [sy^p%]<6>; [Ex-157]<3>; Ex-166#<1>;
339.1	12:24,1.1	Autograph
339.2	12:24,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [sy^p%]<6>; Ex-168\$<1>;
340.1	12:24,2.1	[6]<6>; Autograph
340.2	12:24,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1739*]<6>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
341.1	12:25,1.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06^2]<4>; [044*]<3>; [365%]<5>; [630%]<6>; [TR]<5>; [sy^h%]<4>; [sy^p%]<6>; Autograph
341.2	12:25,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [2464*%]<3>; [vg^b]<3>; [it-ar]<5>; [Ex-154]<3>; Ex-155#<1>;
342.1	12:26,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [630%]<6>; [Ex-147]<6>; Autograph
342.2	12:26,1.2	[044*]<3>; [1175*%]<3>; [1175^c%]<3>; [sy^h%]<4>; [Ex-150]<5>; [Ex-164]<2>; Ex-166#<1>;

343.1	12:26,2.1	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [0285%]<2>; [33*]<5>; [NA-27]<2>; [Ex-147]<6>; Autograph
343.2	12:26,2.2	Ex-165#<1>;
344.1	12:27,1.1	[vg^st]<4>; Autograph
344.2	12:27,1.2	[D06*]<5>; [044*]<3>; [it-t%]<2>; [sy^h%]<4>; [Ambst%]<5>; [Ex-163]<2>; Ex-168\$<1>;
345.1	12:31,1.1	[326]<5>; [vg^st]<4>; [l^846]<5>; [Eus^a%]<3>; [Eus^b%]<3>; [Ex-148]<5>; Auto-graph
345.2	12:31,1.2	[945]<6>; [vg^cl]<4>; [it-g%]<2>; [it-t%]<2>; [bo^b%]<2>; [Or^a%]<4>; [Or^b%]<3>; [Ex-152]<2>; Ex-166#<1>;
346.1	12:31,2.1	Autograph
346.2	12:31,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
347.1	13:2,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [326]<5>; [Cl^a%]<3>; [Cl^b%]<3>; Autograph
347.2	13:2,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-169\$]<1>; Ex-172\$<1>;
348.1	13:3,1.1	[1739*]<6>; Autograph
348.2	13:3,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [D06^2]<4>; [81*%]<3>; [104*%]<3>; [630%]<6>; [1175*%]<3>; [1175^c%]<3>; [1881*]<7>; [Ex-148]<5>; Ex-166#<1>;
348.3	13:3,1.3	[Ex-150]<5>; [Ex-152]<2>; Ex-168\$<1>;
348.4	13:3,1.4	[1505*%]<3>; [sy^h%]<4>; Ex-169\$<1>;
349.1	13:4,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Auto-graph
349.2	13:4,1.2	[33*]<5>; [104*%]<3>; [629]<5>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [sa^a%]<2>; [bo^b%]<2>; [Ex-158]<3>; Ex-166#<1>;
349.3	13:4,1.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-169\$<1>;
350.1	13:5,1.1	Autograph
350.2	13:5,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
351.1	13:5,2.1	[P^46^1]<3>; [P^46^2]<3>; Autograph
351.2	13:5,2.2	P^46*<3>;
351.3	13:5,2.3	[Cl^b%]<3>; [Ex-164]<2>; Ex-169\$<1>;
352.1	13:8,1.1	[Cl^b%]<3>; Ex-165#<1>;
352.2	13:8,1.2	[Ex-147]<6>; Autograph
353.1	13:8,2.1	Autograph
353.2	13:8,2.2	Ex-158<3>;
354.1	13:8,3.1	[P025*%]<3>; [81*%]<3>; [104*%]<3>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [Ex-150]<5>; Autograph
354.2	13:8,3.2	[01^c%]<2>; [01^2]<2>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^b]<3>; [it-ar]<5>; [sa^b%]<2>; [bo^b%]<2>; [Ex-161]<2>; Ex-169\$<1>;
355.1	13:10,1.1	[6]<6>; Autograph
355.2	13:10,1.2	[D06^1]<2>; [Ex-151]<3>; Ex-168\$<1>;

356.1	13:11,1.1	[6]<6>; vg^st<4>; Autograph
356.2	13:11,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [K*%]<2>; [33*]<5>; [vg^cl]<4>; [it-b*]<5>; Cl^a%<3>; Cl^b%<3>; Meth%<4>; Tert%<4>; [Ex-147]<6>; Ex-155#<1>;
357.1	13:12,1.1	Autograph
357.2	13:12,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [81*%]<3>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [sy^p%]<6>; [Cl^b%]<3>; [Ex-150]<5>; Ex-168\$<1>;
357.3	13:12,1.3	33*<5>;
357.4	13:12,1.4	[L019*%]<6>; [P025*%]<3>; [it-ar]<5>; [Irlat^a%]<3>; [Or^a%]<4>; [Or^b%]<3>; Ex-169\$<1>;
358.1	13:13,1.1	Autograph
358.2	13:13,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [sy^p%]<6>; [Cl^a%]<3>; [Cl^b%]<3>; Ex-168\$<1>;
359.1	14:2,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; Autograph
359.2	14:2,1.2	[0243*%]<6>; [0243^c%]<6>; [33*]<5>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-168\$]<1>; Ex-172\$<1>;
360.1	14:2,2.1	Autograph
360.2	14:2,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^b]<3>; [it-b*]<5>; Ex-168\$<1>;
361.1	14:4,1.1	Autograph
361.2	14:4,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^cl]<4>; Ex-168\$<1>;
362.1	14:5,1.1	[D06^2]<4>; [629]<5>; [TR]<5>; Autograph
362.2	14:5,1.2	Ex-152<2>;
362.3	14:5,1.3	[1505*%]<3>; [Ex-150]<5>; Ex-169\$<1>;
362.4	14:5,1.4	D06*<5>;
362.5	14:5,1.5	[F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-170\$<1>;
363.1	14:6,1.1	[33*]<5>; Autograph
363.2	14:6,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^b]<3>; [Pel%]<5>; [Ex-154]<3>; Ex-168\$<1>;
364.1	14:7,1.1	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
364.2	14:7,1.2	[bo^a%]<2>; [bo^b%]<2>; [Ex-158]<3>; [Ex-160]<3>; Ex-169\$<1>;
365.1	14:8,1.1	Autograph
365.2	14:8,1.2	[Ex-152]<2>; [Ex-158]<3>; Ex-166#<1>;
366.1	14:10,1.1	[6]<6>; Autograph
366.2	14:10,1.2	[vg^b]<3>; [it-ar]<5>; [it-g%]<2>; Ex-155#<1>;
367.1	14:11,1.1	Autograph
367.2	14:11,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06^2]<4>; [81*%]<3>; [1175*%]<3>; [1175^c%]<3>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-148]<5>; [Ex-150]<5>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
368.1	14:12,1.1	Autograph
368.2	14:12,1.2	[P025*%]<3>; [1175*%]<3>; [1175^c%]<3>; [vg^b]<3>; [it-ar]<5>; [it-r%]<3>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [sy^p%]<6>; [Pel%]<5>; [Spec%]<5>; Ex-168\$<1>;

369.1	14:12,2.1	Autograph
369.2	14:12,2.2	[I%]<4>; [Ambst%]<5>; [Ex-157]<3>; Ex-168\$<1>;
370.1	14:13,1.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
370.2	14:13,1.2	Ex-155#<1>;
371.1	14:14,1.1	Autograph
371.2	14:14,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [sa^a%]<2>; [Ambst%]<5>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
372.1	14:15,1.1	[Ex-150]<5>; Autograph
372.2	14:15,1.2	[01^c%]<2>; [01^2]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-161]<2>; Ex-168\$<1>;
373.1	14:15,2.1	Autograph
373.2	14:15,2.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [P025*%]<3>; [33*]<5>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [Ex-157]<3>; Ex-168\$<1>;
374.1	14:15,3.1	Autograph
374.2	14:15,3.2	[Ex-164]<2>; Ex-166#<1>;
375.1	14:16,1.1	[6]<6>; Autograph
375.2	14:16,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [048%]<2>; [Ex-152]<2>; Ex-168\$<1>;
376.1	14:16,2.1	[P025*%]<3>; [81*%]<3>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [NA-27]<2>; [Ex-158]<3>; Autograph
376.2	14:16,2.2	[Ex-150]<5>; [Ex-152]<2>; Ex-169\$<1>;
376.3	14:16,2.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; [0243*%]<6>; [0243^c%]<6>; [629]<5>; [Ex-147]<6>; [Ex-165#]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
377.1	14:18,1.1	Autograph
377.2	14:18,1.2	[K*%]<2>; [L019*%]<6>; [326]<5>; [614*]<5>; [629]<5>; [945]<6>; [vg^cl]<4>; [sa^a%]<2>; Ex-168\$<1>;
377.3	14:18,1.3	Ex-166#<1>;
377.4	14:18,1.4	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-169\$<1>;
378.1	14:18,2.1	[K*%]<2>; [P025*%]<3>; [048%]<2>; [81*%]<3>; [104*%]<3>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [1505*%]<3>; [2464*%]<3>; [NA-27]<2>; [it-g%]<2>; [sa^a%]<2>; [sa^b%]<2>; [Ex-150]<5>; [Ex-152]<2>; [Ex-164]<2>; Ex-168\$<1>;
378.2	14:18,2.2	Autograph
379.1	14:18,3.1	[6]<6>; Autograph
379.2	14:18,3.2	Ex-151<3>;
379.3	14:18,3.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
379.4	14:18,3.4	Ex-157<3>;
380.1	14:19,1.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
380.2	14:19,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-169\$<1>;
380.3	14:19,1.3	[048%]<2>; [it-d]<4>; [Ex-151]<3>; [Ex-168\$]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
380.4	14:19,1.4	Ex-156<4>;
381.1	14:21,1.1	Autograph

381.2	14:21,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
382.1	14:21,2.1	[326]<5>; [Ex-148]<5>; Autograph
382.2	14:21,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [945]<6>; [sa^a%]<2>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-147]<6>; [Ex-151]<3>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
383.1	14:23,1.1	[0201%]<3>; Autograph
383.2	14:23,1.2	[G012*]<5>; [Ex-164]<2>; Ex-168\$<1>;
384.1	14:25,1.1	[6]<6>; Autograph
384.2	14:25,1.2	[Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
385.1	14:25,2.1	Autograph
385.2	14:25,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
386.1	14:25,3.1	[33*]<5>; [Ex-147]<6>; Autograph
386.2	14:25,3.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [044*]<3>; [Ex-154]<3>; Ex-169\$<1>;
387.1	14:26,1.1	Ex-165#<1>;
387.2	14:26,1.2	Autograph
388.1	14:28,1.1	Autograph
388.2	14:28,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [365%]<5>; [Ex-158]<3>; Ex-168\$<1>;
389.1	14:31,1.1	Autograph
389.2	14:31,1.2	6<6>;
389.3	14:31,1.3	Ex-150<5>;
389.4	14:31,1.4	[33*]<5>; [2464*%]<3>; [vg^b]<3>; Ex-168\$<1>;
390.1	14:32,1.1	Autograph
390.2	14:32,1.2	[D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [044*]<3>; [vg^b]<3>; [sy^p%]<6>; [Ex-156]<4>; Ex-168\$<1>;
391.1	14:33,1.1	Autograph
391.2	14:33,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-168\$<1>;
391.3	14:33,1.3	Ambst%<5>;
392.1	14:34,1.1	Autograph
392.2	14:34,1.2	[D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [vg^b]<3>; [Ex-156]<4>; Ex-168\$<1>;
393.1	14:34,2.1	Autograph
393.2	14:34,2.2	[D06^c%]<3>; [D06^1]<2>; [Ex-151]<3>; [Ex-156]<4>; Ex-168\$<1>;
394.1	14:34,3.1	[D06^2]<4>; Autograph
394.2	14:34,3.2	[McionE%]<5>; [Ex-147]<6>; [Ex-152]<2>; Ex-168\$<1>;
395.1	14:34,4.1	[Epiph^a%]<3>; [Epiph^b%]<3>; Autograph
395.2	14:34,4.2	[Ex-150]<5>; [Ex-152]<2>; Ex-166#<1>;
396.1	14:34,5.1	Autograph
396.2	14:34,5.2	Ex-157<3>;

397.1	14:34,6.1	[A*]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-150]<5>; Autograph
397.2	14:34,6.2	Ex-161<2>;
398.1	14:34,7.1	Autograph
398.2	14:34,7.2	[81*%]<3>; [Ex-164]<2>; Ex-168\$<1>;
399.1	14:37,1.1	[0243*%]<6>; [0243^c%]<6>; [1739*]<6>; [vg^b]<3>; Autograph
399.2	14:37,1.2	[01*]<4>; [81*%]<3>; Ex-169\$<1>;
399.3	14:37,1.3	Ex-156<4>;
399.4	14:37,1.4	[sa^a%]<2>; [Ex-152]<2>; Ex-166#<1>;
399.5	14:37,1.5	[Ex-150]<5>; [Ex-157]<3>; Ex-170\$<1>;
400.1	14:38,1.1	[6]<6>; Autograph
400.2	14:38,1.2	[A^c]<4>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-164]<2>; [Ex-168\$]<1>; Ex-172\$<1>;
401.1	14:39,1.1	[01^c%]<2>; [01^2]<2>; [D06^1]<2>; [048%]<2>; [326]<5>; [NA-27]<2>; [vg^b]<3>; [Ex-144]<4>; [Ex-161]<2>; Ex-168\$<1>;
401.2	14:39,1.2	[Ex-153]<4>; Autograph
402.1	14:39,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Auto-graph
402.2	14:39,2.2	[Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
403.1	14:39,3.1	[01^c%]<2>; [01^2]<2>; [6]<6>; [Ex-165#]<1>; [Ex-169\$]<1>; Ex-172\$<1>;
403.2	14:39,3.2	Autograph
403.3	14:39,3.3	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [sy^h%]<4>; [sy^p%]<6>; Ex-168\$<1>;
403.4	14:39,3.4	Ex-164<2>;
404.1	14:40,1.1	Autograph
404.2	14:40,1.2	[D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [vg^b]<3>; [Ex-156]<4>; Ex-168\$<1>;
405.1	15:2,1.1	Autograph
405.2	15:2,1.2	[D06^c%]<3>; [vg^b]<3>; [it-t%]<2>; [Ex-156]<4>; Ex-168\$<1>;
406.1	15:3,1.1	Autograph
406.2	15:3,1.2	[it-b*]<5>; [Ambst%]<5>; [Irlat^a%]<3>; Ex-168\$<1>;
407.1	15:5,1.1	[Ex-150]<5>; Autograph
407.2	15:5,1.2	[01^c%]<2>; [01^2]<2>; [614*]<5>; [Ex-161]<2>; Ex-168\$<1>;
407.3	15:5,1.3	Ex-166#<1>;
408.1	15:5,2.1	[D06^c%]<3>; [D06^1]<2>; Autograph
408.2	15:5,2.2	Ex-166#<1>;
409.1	15:6,1.1	[6]<6>; [sy^h%]<4>; Autograph
409.2	15:6,1.2	[A^c]<4>; [048%]<2>; [33*]<5>; [Ex-155#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
410.1	15:7,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [NA-27]<2>; [Ex-158]<3>; Autograph
410.2	15:7,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [614*]<5>; Ex-165#<1>;
411.1	15:10,1.1	Autograph
411.2	15:10,1.2	[P^46*]<3>; [P^46^c%]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;

411.3	15:10,1.3	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [Ambst%]<5>; Ex-169\$<1>;
412.1	15:10,2.1	[D06^1]<2>; [33*]<5>; [Ex-147]<6>; Autograph
412.2	15:10,2.2	[6]<6>; [Ex-154]<3>; [Ex-158]<3>; Ex-166#<1>;
413.1	15:12,1.1	Autograph
413.2	15:12,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [0270%]<4>; [Ex-168\$]<1>; Ex-172\$<1>;
414.1	15:14,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [K*%]<2>; [326]<5>; [NA-27]<2>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-161]<2>; Ex-168\$<1>;
414.2	15:14,1.2	[Irlat^a%]<3>; [Ex-150]<5>; Autograph
415.1	15:14,2.1	[365%]<5>; [630%]<6>; Autograph
415.2	15:14,2.2	[D06*]<5>; [6]<6>; [81*%]<3>; [vg^b]<3>; [it-ar]<5>; [sa^b%]<2>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-153]<4>; [Ex-158]<3>; Ex-169\$<1>;
416.1	15:15,1.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
416.2	15:15,1.2	[D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [vg^b]<3>; [it-r%]<3>; [sy^p%]<6>; [Irlat^a%]<3>; [Ex-156]<4>; Ex-169\$<1>;
417.1	15:17,1.1	[F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
417.2	15:17,1.2	[D06*]<5>; Irlat^a%<3>; Ex-158<3>;
418.1	15:20,1.1	[6]<6>; Autograph
418.2	15:20,1.2	Ex-152<2>;
419.1	15:24,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Autograph
419.2	15:24,1.2	[33*]<5>; [Ex-147]<6>; [Ex-151]<3>; Ex-166#<1>;
420.1	15:25,1.1	Autograph
420.2	15:25,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [33*]<5>; [104*%]<3>; [629]<5>; [vg^b]<3>; [it-ar]<5>; [it-r%]<3>; [sy^p%]<6>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Ex-157]<3>; Ex-168\$<1>;
421.1	15:27,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-r%]<3>; Autograph
421.2	15:27,1.2	[33*]<5>; [630%]<6>; [1505*%]<3>; [Ex-164]<2>; Ex-166#<1>;
422.1	15:28,1.1	[vg^c]<4>; [Epiph^a%]<3>; [Epiph^b%]<3>; [Tert%]<4>; [Ex-147]<6>; Autograph
422.2	15:28,1.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [1175*%]<3>; [1175^c%]<3>; [vg^st]<4>; [it-b*]<5>; [sa^a%]<2>; [sy^p%]<6>; [Irlat^a%]<3>; [Ex-153]<4>; [Ex-164]<2>; Ex-168\$<1>;
423.1	15:28,2.1	Autograph
423.2	15:28,2.2	[vg^b]<3>; [Ambst%]<5>; Ex-168\$<1>;
424.1	15:28,3.1	[01*]<4>; [01^1%]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [NA-27]<2>; [Ex-147]<6>; Autograph
424.2	15:28,3.2	[D06*]<5>; [6]<6>; Ex-165#<1>;
425.1	15:29,1.1	[075%]<4>; [sy^h%]<4>; Autograph
425.2	15:29,1.2	[bo^b%]<2>; [Ex-151]<3>; Ex-169\$<1>;
425.3	15:29,1.3	69<5>;

426.1	15:31,1.1	Autograph
426.2	15:31,1.2	[6]<6>; [365%]<5>; [614*]<5>; [629]<5>; [1505*%]<3>; [Ex-147]<6>; [Ex-157]<3>; Ex-168\$<1>;
427.1	15:31,2.1	[326]<5>; [sy^h%]<4>; [sy^p%]<6>; Autograph
427.2	15:31,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [Ambst%]<5>; [PeI%]<5>; [Ex-150]<5>; [Ex-152]<2>; Ex-169\$<1>;
428.1	15:31,3.1	Autograph
428.2	15:31,3.2	[D06*]<5>; [it-b*]<5>; [Ambst%]<5>; [PeI%]<5>; Ex-168\$<1>;
429.1	15:34,1.1	[D06^2]<4>; Autograph
429.2	15:34,1.2	[F*]<5>; [G012*]<5>; [G012^c]<5>; [it-ar]<5>; [Ex-147]<6>; [Ex-151]<3>; [Ex-157]<3>; Ex-168\$<1>;
430.1	15:37,1.1	[D06*]<5>; [it-ar]<5>; Autograph
430.2	15:37,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [Ex-160]<3>; Ex-169\$<1>;
431.1	15:45,1.1	Autograph
431.2	15:45,1.2	[K*%]<2>; [326]<5>; [365%]<5>; [Irlat^a%]<3>; [Ex-158]<3>; Ex-168\$<1>;
432.1	15:45,2.1	Autograph
432.2	15:45,2.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
433.1	15:47,1.1	[0243*%]<6>; [0243^c%]<6>; [6]<6>; [1739*]<6>; Autograph
433.2	15:47,1.2	[630%]<6>; [McionA%]<2>; Ex-169\$<1>;
433.3	15:47,1.3	[D06^1]<2>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-170\$]<1>; Ex-172\$<1>;
433.4	15:47,1.4	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-171\$<1>;
434.1	15:47,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; Autograph
434.2	15:47,2.2	Ex-166#<1>;
435.1	15:49,1.1	[6]<6>; [630%]<6>; [TR]<5>; [NA-27]<2>; [sa^a%]<2>; [Ex-147]<6>; [Ex-158]<3>; Ex-168\$<1>;
435.2	15:49,1.2	Autograph
436.1	15:50,1.1	Autograph
436.2	15:50,1.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [it-b*]<5>; [Ambst%]<5>; [Irlat^a%]<3>; [McionT%]<4>; [Ex-168\$]<1>; Ex-172\$<1>;
437.1	15:50,2.1	[01*]<4>; [01^c%]<2>; [01^1%]<4>; [01^2]<2>; [365%]<5>; [NA-27]<2>; [sa^a%]<2>; [sy^h%]<4>; [Cl^b%]<3>; [Ex-164]<2>; Ex-168\$<1>;
437.2	15:50,2.2	Autograph
437.3	15:50,2.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; [vg^b]<3>; [it-ar]<5>; [bo^a%]<2>; [bo^b%]<2>; [Ambst%]<5>; [Irlat^b%]<4>; [McionT%]<4>; Ex-169\$<1>;
438.1	15:51,1.1	Autograph
438.2	15:51,1.2	Ex-157<3>;
439.1	15:51,2.1	[C*%]<4>; [D06*]<5>; [NA-27]<2>; [it-b*]<5>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
439.2	15:51,2.2	[0243^c%]<6>; [Ex-147]<6>; Autograph
440.1	15:51,3.1	[0243^c%]<6>; [Ex-147]<6>; Autograph

440.2	15:51,3.2	[01^c%]<2>; [01^2]<2>; [Hier^a%]<2>; [Ex-161]<2>; Ex-169\$<1>;
440.3	15:51,3.3	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [A^c]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; Ex-170\$<1>;
440.4	15:51,3.4	Ex-166#<1>;
441.1	15:52,1.1	[Ex-147]<6>; Autograph
441.2	15:52,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [6]<6>; [Ex-150]<5>; Ex-168\$<1>;
442.1	15:52,2.1	Autograph
442.2	15:52,2.2	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [D06^2]<4>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [P025*%]<3>; [Ex-157]<3>; Ex-168\$<1>;
443.1	15:54,1.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [vg^b]<3>; Autograph
443.2	15:54,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [01*]<4>; [C*%]<4>; [0121%]<6>; [0243*%]<6>; [0243^c%]<6>; [1175*%]<3>; [1175^c%]<3>; [1739*]<6>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-166#]<1>; [Ex-168\$]<1>; Ex-172\$<1>;
443.3	15:54,1.3	[F*]<5>; [G012*]<5>; [G012^c]<5>; [326]<5>; [365%]<5>; [614*]<5>; [629]<5>; [Ex-157]<3>; Ex-169\$<1>;
444.1	15:54,2.1	Autograph
444.2	15:54,2.2	[D06*]<5>; [088%]<2>; [Cyp^a%]<5>; [Tert%]<4>; [Ex-164]<2>; Ex-168\$<1>;
445.1	15:54,3.1	[1739*]<6>; Autograph
445.2	15:54,3.2	[D06*]<5>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ambst%]<5>; [Cyp^a%]<5>; [Eus^a%]<3>; [Irlat^a%]<3>; [Tert%]<4>; Ex-168\$<1>;
445.3	15:54,3.3	[A^c]<4>; [Ex-147]<6>; [Ex-155#]<1>; [Ex-170\$]<1>; Ex-172\$<1>;
445.4	15:54,3.4	[81*%]<3>; [326]<5>; [1175*%]<3>; [1175^c%]<3>; [2464*%]<3>; [Ex-153]<4>; Ex-169\$<1>;
446.1	15:54,4.1	Autograph
446.2	15:54,4.2	[D06*]<5>; [088%]<2>; [Cyp^a%]<5>; [Tert%]<4>; [Ex-164]<2>; Ex-168\$<1>;
447.1	16:2,1.1	[D06^2]<4>; [044*]<3>; [sy^p%]<6>; Autograph
447.2	16:2,1.2	[bo^a%]<2>; [bo^b%]<2>; [Ex-150]<5>; Ex-155#<1>;
448.1	16:2,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-151]<3>; Autograph
448.2	16:2,2.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [K*%]<2>; [088%]<2>; [6]<6>; [81*%]<3>; [104*%]<3>; [365%]<5>; [1175*%]<3>; [1175^c%]<3>; [Ex-150]<5>; [Ex-155#]<1>; [Ex-157]<3>; [Ex-168\$]<1>; Ex-172\$<1>;
449.1	16:3,1.1	Autograph
449.2	16:3,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; Ex-168\$<1>;
450.1	16:4,1.1	Autograph
450.2	16:4,1.2	[01*]<4>; [D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; [Ex-152]<2>; Ex-168\$<1>;
451.1	16:6,1.1	Autograph
451.2	16:6,1.2	[P^46*]<3>; [P^46^c]<3>; [P^46^1]<3>; [P^46^2]<3>; [vg^b]<3>; [Ambst%]<5>; Ex-168\$<1>;
452.1	16:6,2.1	[D06*]<5>; [D06^c%]<3>; [D06^1]<2>; [F*]<5>; [G012*]<5>; [G012^c]<5>; 088%<2>; Autograph

452.2	16:6,2.2	P ³⁴ <2>; [0121%]<6>; [0243*%]<6>; [0243 ^c %]<6>; [6]<6>; [1739 ^c]<6>; [Ex-158]<3>; Ex-168\$<1>;
453.1	16:6,3.1	Autograph
453.2	16:6,3.2	[6]<6>; [sy ^p %]<6>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
453.3	16:6,3.3	[F*]<5>; [G012*]<5>; [G012 ^c]<5>; [it-ar]<5>; Ex-169\$<1>;
454.1	16:7,1.1	[D06 ²]<4>; [6]<6>; [sy ^p %]<6>; Autograph
454.2	16:7,1.2	[vg ^b]<3>; [Ex-152]<2>; Ex-169\$<1>;
455.1	16:8,1.1	[0121%]<6>; [0243*%]<6>; [0243 ^c %]<6>; Autograph
455.2	16:8,1.2	[B ²]<4>; [D06 ²]<4>; [075%]<4>; [6]<6>; [81*%]<3>; [629]<5>; [2464*%]<3>; [Ex-153]<4>; Ex-169\$<1>;
456.1	16:10,1.1	Autograph
456.2	16:10,1.2	[6]<6>; [sa ^a %]<2>; [sy ^p %]<6>; [Ex-150]<5>; [Ex-164]<2>; Ex-168\$<1>;
457.1	16:12,1.1	Autograph
457.2	16:12,1.2	[01*]<4>; [D06*]<5>; [F*]<5>; [G012*]<5>; [G012 ^c]<5>; [vg ^{cl}]<4>; [it-ar]<5>; [Ambst%]<5>; Ex-168\$<1>;
458.1	16:15,1.1	[it-r%]<3>; [Ambst%]<5>; Autograph
458.2	16:15,1.2	[01 ²]<2>; [D06 ²]<4>; [104*%]<3>; [629]<5>; [1175*%]<3>; [1175 ^c %]<3>; [2464*%]<3>; vg st <4>; [bo ^a %]<2>; [bo ^b %]<2>; Ex-166#<1>;
458.3	16:15,1.3	[C*%]<4>; [F*]<5>; [G012*]<5>; [G012 ^c]<5>; [365%]<5>; [1505*%]<3>; vg ^{cl} <4>; [it-ar]<5>; [Pel%]<5>; Ex-169\$<1>;
459.1	16:15,2.1	Autograph
459.2	16:15,2.2	33*<5>;
459.3	16:15,2.3	[P ^{46*}]<3>; [P ^{46^c}]<3>; [P ^{46¹}]<3>; [P ^{46²}]<3>; [bo ^b %]<2>; Ex-168\$<1>;
460.1	16:17,1.1	[C*%]<4>; [C ¹ %]<4>; [C ² %]<4>; [C ³ %]<4>; [D06*]<5>; [D06 ^c %]<3>; [D06 ¹]<2>; [D06 ²]<4>; [F*]<5>; [G012*]<5>; [G012 ^c]<5>; [P025*%]<3>; [NA-27]<2>; [Ex-153]<4>; [Ex-158]<3>; Ex-168\$<1>;
460.2	16:17,1.2	Autograph
461.1	16:17,2.1	[630%]<6>; [Ex-147]<6>; Autograph
461.2	16:17,2.2	[D06 ²]<4>; [6]<6>; [sy ^p %]<6>; [Ex-150]<5>; [Ex-157]<3>; Ex-166#<1>;
462.1	16:19,1.1	Autograph
462.2	16:19,1.2	Ex-157<3>;
463.1	16:19,2.1	Autograph
463.2	16:19,2.2	[P ^{46*}]<3>; [P ^{46^c}]<3>; [P ^{46¹}]<3>; [P ^{46²}]<3>; [69]<5>; [Ex-168\$]<1>; Ex-172\$<1>;
464.1	16:19,3.1	[D06*]<5>; [D06 ^c %]<3>; [D06 ¹]<2>; [D06 ²]<4>; Autograph
464.2	16:19,3.2	[F*]<5>; [G012*]<5>; [G012 ^c]<5>; [sa ^a %]<2>; [sa ^b %]<2>; [bo ^a %]<2>; [bo ^b %]<2>; [Ex-151]<3>; [Ex-153]<4>; [Ex-164]<2>; Ex-168\$<1>;
465.1	16:19,4.1	vg st <4>; [it-r%]<3>; Autograph
465.2	16:19,4.2	[C*%]<4>; [C ¹ %]<4>; [C ² %]<4>; [C ³ %]<4>; [1881 ^c]<7>; [vg ^{cl}]<4>; [it-g%]<2>; [Ex-152]<2>; Ex-166#<1>;
466.1	16:19,5.1	[D06 ^c %]<3>; Autograph
466.2	16:19,5.2	[vg ^{cl}]<4>; [it-g%]<2>; [Ex-162]<2>; [Ex-168\$]<1>; Ex-172\$<1>;

467.1	16:22,1.1	[D06*]<5>; Autograph
467.2	16:22,1.2	[B^2]<4>; [D06^2]<4>; [G012*]<5>; [K*%]<2>; [L019*%]<6>; [044*]<3>; [323*]<5>; [365%]<5>; [1505*%]<3>; [vg^cl]<4>; [sy^h%]<4>; [sy^p%]<6>; Ex-168\$<1>;
467.3	16:22,1.3	[F*]<5>; [G012^c]<5>; [Ex-150]<5>; [Ex-151]<3>; Ex-169\$<1>;
468.1	16:23,1.1	Ex-165#<1>;
468.2	16:23,1.2	[C*%]<4>; [C^1%]<4>; [C^2%]<4>; [C^3%]<4>; [vg^cl]<4>; [it-g%]<2>; [bo^a%]<2>; [bo^b%]<2>; [Ex-150]<5>; [Ex-157]<3>; Autograph
469.1	16:24,1.1	[F*]<5>; [81*%]<3>; [NA-27]<2>; [sa^a%]<2>; [bo^b%]<2>; [sy^p%]<6>; [Ambst%]<5>; [Ex-153]<4>; [Ex-164]<2>; Ex-168\$<1>;
469.2	16:24,1.2	[1739^c]<6>; Autograph
469.3	16:24,1.3	[G012*]<5>; [G012^c]<5>; Ex-169\$<1>;

GLOSSARY OF TERMS

Boldfaced words in the following definitions refer to other terms defined in this glossary.

Affinity: the degree to which two **witnesses** to a text have the same readings. Affinity consists of two components: **Quantitative Affinity** and **Genetic Affinity**.

Autograph: The original document written by the hand of its author or by his secretary to whom he dictated its text.

Autographic Text: The words originally written in an original document.

Commonness: A measure of the degree to which **witnesses** to a given text share the same value of a genetic characteristic of the text. See Commonness of Place of Variation and Commonness of Reading.

Commonness of Place of Variation: The degree to which two **witnesses** to a given text have the same **places of variation** regardless of the **readings** at those places—that is, they share a common portion of the text. The Commonness of Place of Variation of A with B = the number of **places of variation** where both A and B have a **reading**, where A and B are **witnesses** to the same text. This measure is important for dealing with fragmentary **witnesses**. Two **witnesses** that both have a complete text have 100% Commonness of Place of Variation.

Commonness of Readings: A measure of the degree to which two **witnesses** to a text have the same **readings**. It is calculated as follows: The Commonness of Readings of A with B = the number of **places of variation** where both A and B have the same **reading**, where A and B are **witnesses** to the same text.

Completeness: A measure of how much of a text a particular **witness** contains. It is calculated as follows: The Completeness of A = (the number of **places of variation** A has of the text) ÷ (the total number of **places of variation** in the text), where A is a **witness** to the text. This measure is important for dealing with fragmentary **witnesses**.

Content: A list of the **places of variation** a **witness** contains, expressed in terms of references (chapter and verse)—that is, that portion of the text the **witness** contains.

Deferred Ambiguity: The principle of deferred ambiguity states that when consensus fails to recover a reading of an exemplar being reconstructed, the sister of that exemplar will have the inherited reading in the next prior generation.

Exemplar: A **witness** from which other **witnesses** have been copied. The software creates exemplars in the process of reconstructing the genealogical history of a text.

Fragment: A **witness** that is missing part of its text due to damage or deterioration.

Genetic Affinity: see **Quantitative Affinity**.

Genetic Dominance: A **reading** has genetic dominance as long as it is inherited by the **descendants** of the exemplar in which it first occurs. It loses genetic dominance at any place in the genetic history of the exemplar in which it occurs where an alternate reading replaces it.

Heredity: That characteristic of a **reading** correctly copied into a daughter **witness** of the **exemplar** in which the reading is found.

Inheritable Variant: A variant initiated by one of the ancestor exemplars of a witness.

Inheritance: That characteristic of a **reading** correctly copied from the parent **exemplar** of the **witness** in which the reading is found.

Inheritance Persistence: The inheritance persistence of a witness is the ratio of the number inheritable variants to the number of actually inherited ones.

Lectionary: A **manuscript** edited and arranged in sections assigned for reading in the Church at specified times in the liturgical calendar—something like a hymnbook.

Majuscule: A **manuscript** written in all capital letters.

Manuscript: A handwritten copy of a text made from an earlier copy (**exemplar**). The term is sometimes used as a synonym of *witness*.

Minimal Reading: The reading of a witness that occurs least often in the working database.

Minuscule: A **manuscript** written in lower case characters.

Papyri: Manuscripts copied on paper made from papyrus. They are usually rather early, but mostly fragmentary.

Parent Exemplar: The **manuscript** from which another **manuscript** was directly copied.

Place of Variation: A place in a text where the **witnesses** to the text have different **readings**. In the data base, each place of variation is assigned a sequential index number in order to distinguish them from one another; each one also has assigned to it the chapter and verse where it occurs in the text.

Primary Parent: The **parent exemplar** of a **witness** from which it derives most of its readings, and its place in the tree diagram that maps the genealogical history of the text. A witness has only one primary parent exemplar.

Quantitative Affinity: A measure of the degree to which **witnesses** to a given text are genetically related. The mutual quantitative affinity between two witnesses is the inverse ratio of the number of places the two witnesses have the same readings to the number of places their readings are different.

Reading: At each **place of variation** in a text, the **witnesses** have different words. The words contained in a given witness at a particular **place of variation** constitute the *reading* of that witness at that place. The reading may be a word, phrase, sentence, verse, etc., or nothing at all (an omission).

Recension: A recension is understood to be a **witness** derived from multiple sources and having a significant number of variations from its **primary parent exemplar**. A recension was a deliberate alteration of a text tradition for the purpose of correction or improvement. A recension occurred when a Christian community noted that their Bibles (**manuscripts**) had different **readings**, and there was an attempt to recover the readings of the **autograph**. This likely took place under the authority of the leadership of the community and was carried out by competent scribes. It is possible that in some recensions some of the corrections were made to strengthen the doctrines of the community.

Secondary Descendant: A descendant of a **secondary parent** functioning as a source of mixture for the given descendant.

Secondary Parent: A **parent exemplar** of a witness other than the **Primary Parent Exemplar**. Secondary parents are the sources of mixture for their **secondary descendants**.

Siblings: Sisters, first generation descendants (copies) of the same **exemplar**.

Sibling Gene: The collection of **minimal readings** a **witness** has that occur only in it and its **sibling** sisters. These are the readings where the text of the parent exemplar of the siblings differs from the text of its genealogical ancestors.

Stemma: A tree diagram of the genealogical relationships of the witnesses to the text of an ancient literary composition.

Stematis: Stematis is the method used for recovering the original text of the ancient Greek and Latin classics, also known as the family-tree method.

Uncial: A **manuscript** written in all capital letters.

Variant Heredity: The characteristic of variant readings that provides a measure of the likelihood that a given reading in a particular witness A has been inherited from another witness B in an earlier generation. It is quantified as the **genetic distance** between witness A containing the given reading and another witness B in an earlier generation containing the same reading. The witness B having the least genetic distance from witness A is the closest near relative of A with respect to the given reading. A reading has no variant heredity until after it is first initiated somewhere in the genealogical history of the text.

Variant Reading: See *Reading*.

Variation Unit: See *Place of Variation*.

Version: A translation of a document into a language other than that of the original document itself.

Virtual Exemplar: An **exemplar** created by the software to account for same-generation mixture. These exemplars do not contribute to the primary structure of the tree diagram.

Witness: A **manuscript** of a document in its original language, or a translation of that document into another language, or a quotation of the text of a **manuscript** or translation.

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