



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

24503288068



LANE MEDICAL LIBRARY STANFORD
E601 .J66 1904
STOR
Catalogue of the collection of human emb

Johns Hopkins university. Anatomical
laboratory.

Catalogue of the collection of human
embryos in the anatomical laboratory of
the Johns Hopkins university.

E601
J66
1904

LANE

MEDICAL



LIBRARY

LEVI COOPER LANE FUND

CATALOGUE

OF THE

COLLECTION OF HUMAN EMBRYOS

IN THE

ANATOMICAL LABORATORY OF THE JOHNS
HOPKINS UNIVERSITY

BY

FRANKLIN P. MALL

LANE LIBRARY

BALTIMORE

1904

VP

NORMAL EMBRYOS WHICH HAVE BEEN CUT INTO SERIAL SECTIONS.

Most of the embryos have been stained with alum carmine. They are arranged in groups according to their quality and according to their age. The good embryos of the third week, for instance, include them between 14 and 22 days.

The age of an embryo in days equals $\sqrt{100 \times \frac{\text{length in mm.}}{100}}$ or an embryo of a given age is $\frac{\text{age}^2}{100}$ millimeters long. This rule applies to embryos less than 100 mm. long. In embryos from 100 to 200 mm. long the length from crown to rump in millimeters equals the age in days.

2nd week.	3	4	5	6	7	8	9	10	11	12	13	14
0-2 mm.	2-4½	4½-8	8-12	12-17½	17½-24	24-31½	31½-39½	39½-49	49-58½	58½-70½	70½-82	82-96
12	2	109	43	6	45	145	95	84	28	172	.....	.....
76	80	163	106	22	75	211	96	184	34	234a	.....	.....
148	116	.....	144	74	86	.....	224	.....	44	.....	.....	.....
186	.....	.....	175	128	227	.....	.....	.....	230	.....	.....	.....
.....	.....	.....	.....	329	.....	.....	.....	.....	.....	.....	.....	.....
87	4	88	9	5	.....	.....	.....	.....	.....	.....	.....	146
164	18	114	.....	40	.....	199	.....	.....	.....	.....	.....	.....
209	118	221	.....	108	.....	.....	.....	.....	.....	.....	.....	.....
239	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
250	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fair												
1	208	.....	8	7	27	.....	.....	.....	.....	.....	.....	.....
3	248	.....	231	17	.....	.....	.....	.....	.....	.....	.....	.....
19	.....	.....	.....	57	.....	.....	.....	.....	.....	.....	.....	.....
112	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Poor												

LIST OF EMBRYOS.

The following list of human embryos, with the names and addresses of the physicians from whom they were obtained, is printed for the convenience of those who are interested in my collection. The data collected have all been filed in order, but they have become so bulky that a list like this is needed for reference. A number is given to each embryo which is entered upon all of the glass slides photographic negatives and all other records of the specimen. Sometimes the notes and illustrations of a single embryo are so numerous that they alone fill a whole album.

The figures following the names refer to the publications based wholly or in part upon this collection. According to present prospects the bibliography will be extended greatly within a few years. The collection is now almost unique and we shall prove ourselves unworthy if we do not add something to our knowledge of human embryology.

The abbreviations in parentheses are as follows:

The first figure indicates the length of the embryo from vertex to breech in millimeters.

The sign following indicates the direction of the section; + means transverse, = means sagittal, and || means coronal.

The words *good*, *fair* or *poor* indicate the quality of the series.

In case the specimen is pathological it is marked [p] in brackets.

1. (4½ + 10 poor). Dr. Gavin, Baltimore. 13, 21, 27, 40, 41.
2. (7 + 15 good). Dr. C. O. Miller, Baltimore. 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 21, 24, 27, 28, 29, 30, 32, 34, 35, 36, 39, 40, 41, 45, 46, 47, 48, 49, 50, 52, 53, 56, 58.
3. (2½ + 10 poor). Prof. His, Leipzig, Germany. 10, 30, 40.
4. (7 + 10 fair). Dr. Williams, Baltimore. 10, 30, 40, 41, 53.
5. (18½ + 20 fair). Dr. Kittredge, Nashua, N. H. 10, 13, 21, 27, 30, 40, 41.
6. (24 + 20 good). Dr. C. O. Miller, Baltimore. 4, 10, 11, 13, 15, 19, 21, 22, 27, 30, 40, 57.
7. (19½ + 40 poor). Dr. Booker, Baltimore. 30, 40, 57.
8. (17 + 40 poor). Dr. Ritter, Brooklyn, N. Y. 10, 30, 40.
9. (17½ + 20 fair). Dr. Eyeleshymer, Chicago. 10, 11, 15, 19, 22, 30, 40, 41, 57.
10. (24 + 40 fair). Dr. W. S. Miller, Madison, Wis. 10, 11, 15, 21, 30, 40, 56, 57.
11. (1½ = 10 fair [p]). Dr. Kittredge, Nashua, N. H. 3, 4, 10, 13, 21, 27, 30, 33, 40, 48.
12. (2 1/10 + 10 good). Dr. Ellis, Elkton, Md. 4, 10, 11, 12, 13, 15, 19, 21, 24, 27, 28, 30, 32, 36, 39, 40, 41, 45, 47, 48.
13. (1¾ = 10 fair [p]). Prof. His, Leipzig, Germany. 10, 21, 30, 33, 37, 40.
14. (1¾ = 10 fair [p]). Dr. Friedenwald, Baltimore. 10, 21, 30, 33, 40.
15. (6). Dr. Hoye, Richmond, Va. 10, 13, 21, 27, 40.
16. (7). Dr. Sherwood, Baltimore. 10, 13, 21, 27, 40.
17. (18 = 50 & 100 poor). Dr. Cottell, Louisville, Ky. 10, 13, 21, 27, 30, 40, 56, 57, 58.
18. (7 + 20 fair). Dr. Douglass, Nashville, Tenn. 10, 13, 19, 21, 27, 30, 40, 41, 48.
19. (5½ + 20 poor). Dr. Williams, Baltimore. 10, 13, 19, 21, 27, 30, 38, 40, 41.
20. (50 fair [p]). Dr. Williams, Baltimore. 10, 21, 37, 40.
21. (5½ + 20 fair [p]). Dr. Cullen, London, Canada. 10, 21, 30, 33, 40.
22. (20 + 50 good). Dr. Snively, Waynesboro, Penn. 10, 12, 13, 21, 25, 27, 28, 30, 32, 36, 39, 40, 41, 42, 47, 48, 52, 54, 56, 57, 58.
23. (70 + 100 good). Dr. Snively, Waynesboro, Penn. 13, 21, 27, 40, 42, 58.
24. (1 + 20 good [p]). Dr. C. O. Miller, Baltimore. 10, 21, 30, 33, 40.
25. (6 = 50 good [p]). Dr. Lord, Baltimore. 21, 33, 37, 40.
26. (25). Dr. Simon, Baltimore. 13, 21, 27, 40.
27. (23). Dr. Thayer, Baltimore. 13, 21, 27, 40.
28. (19). Dr. Sewall, Denver, Colo. 10, 13, 21, 27, 30, 40.
29. (= 50 good [p]). Dr. Booker, Baltimore. 10, 21, 33, 37, 40.
30. (60). Dr. Snively, Waynesboro, Penn. 13, 21, 27, 40.

31. (24). Dr. Ballard, Baltimore. 13, 21, 27, 40.
32. (9 = 50 good [p]). Dr. Booker, Baltimore. 10, 21, 33, 37, 40.
33. (17). Dr. Robb, Cleveland, Ohio.
34. (60 + 50 good). Dr. Ellis, Elkton, Md. 10, 11, 13, 15, 18, 21, 22, 27, 30, 40, 42, 54.
35. (13). Dr. C. O. Miller, Baltimore. 13, 21, 40.
36. (). Dr. Gould, Philadelphia.
37. (2 + 50 poor [p]). Dr. Gould, Philadelphia. 10, 21, 33, 40.
38. (58).
39. (40).
40. (22).
41. (42). Dr. Williams, Baltimore.
42. (18). Dr. Wills, Los Angeles, Cal. 10, 13, 21, 27, 30, 40.
43. (16 = 50 good). Dr. Booker, Baltimore. 10, 12, 14, 19, 24, 25, 26, 28, 30, 32, 36, 40, 41, 52, 53, 57.
44. (70 + 100 good). Dr. Snively, Waynesboro, Penn. 42, 54, 58.
45. (28 + 50 good). Dr. Douglas, Baltimore. 10, 11, 13, 15, 18, 21, 22, 27, 30, 31, 40, 41, 42, 54, 56, 57, 58.
46. (135). Dr. Taylor, Baltimore. 13, 21, 27, 40, 54.
47. (65).
48. (130 + 100 good). Dr. Wilson, Worcester, Mass. 10, 11, 15, 22, 30, 40, 41, 42, 54.
49. (70). ———— 13, 21, 27, 40.
50. (120). Dr. Cullen, Baltimore.
51. (65). Dr. Gavin, Baltimore.
52. (33). Dr. Gavin, Baltimore. 13, 21, 27, 40.
53. (16). Dr. McMorris, Belle Plaine, Ia. 10, 40.
54. (11 + 50 & 100 fair [p]). Dr. McMorris, Belle Plaine, Ia. 21, 33, 37, 40.
55. (= 50 good [p]). Dr. Watson, Baltimore. 10, 21, 33, 37, 40.
56. (24). Dr. Flexner, Baltimore.
57. (23 = 50 poor). Dr. Howard, Cleveland, Ohio. 10, 13, 21, 27, 30, 40, 41, 56, 57.
58. (6 + 50 & 100 good [p]). Dr. Howard, Cleveland, Ohio. 21, 30, 33, 40.
59. (10). Dr. Neale, Baltimore.
60. (8 = 100 fair [p]). Dr. Dobbin, Baltimore. 21, 33, 40.
61. (+ 20 fair). Dr. Williams, Baltimore.
62. (130). Dr. Gibbs, Baltimore.
63. (5 weeks). Dr. Zimmerman, Baltimore.
64. (75). Dr. Zimmerman, Baltimore. 16, 40.
65. (120). Dr. Zimmerman, Baltimore. 16, 40.
66. (130). Dr. Zimmerman, Baltimore.
67. (150). Dr. Zimmerman, Baltimore.
68. (160). Dr. Zimmerman, Baltimore.
69. (13 = 50 & 100 good [p]). Dr. Chabot, Baltimore. 21, 33, 37, 40.
70. (good [p]). Dr. Ellis, Elkton, Md. 21, 33, 37, 40.
71. (+ 20 good [p]). Dr. Whitcomb, Greenwich, N. Y. 21, 37, 40.
72. (23). Dr. Arthur, Baltimore. 13, 21, 27, 33, 40.
73. (30). Dr. Irving Miller, Baltimore.
74. (19 + 50 good). Dr. Irving Miller, Baltimore. 12, 24, 40, 41, 50, 56, 57.
75. (30 = 50 good). Dr. Ferguson, Berwick, Me. 31, 34, 40, 41, 54, 56, 57.
76. (4½ + 20 good). Dr. Mitchell, Chicago. 12, 13, 14, 21, 24, 27, 28, 32, 34, 40, 41, 48, 52, 53, 58.
77. (= 20 good [p]). Dr. Horn, Baltimore. 21, 33, 37, 40.
78. (1 = 50 fair [p]). Dr. Stoner, Harlan, Ia. 21, 33, 40.
79. (33 = 100 good [p]). Dr. Briggs, Blackville, S. C. 13, 18, 21, 27, 33, 40, 56, 57, 58.
80. (5 + 20 good). Dr. Branham, Baltimore. 13, 21, 24, 27, 28, 32, 34, 40, 41, 48, 52, 53, 58.
81. (20 = 50 + 100 fair [p]). Dr. Branham, Baltimore. 13, 21, 27, 33, 40.
82. (good [p]). Dr. Cassidy, Baltimore. 21, 33, 37, 38, 40.
83. (18). Dr. McGraw, Pittsburg, Penn.
84. (50 + 50 good). Dr. Duval, Baltimore. 41, 54, 56, 58.
85. (80). Dr. Jump, Diamond, Cal. 56.
86. (30 || 50 good). Dr. Billingslea, Baltimore. 31, 40, 41, 54, 56, 57.
87. (4 + 20 fair). Dr. Cole, Peru, Ill. 13, 21, 27, 30, 33, 40.
88. (10 + 50 & 100 poor). Dr. Brumme, Detroit. 13, 21, 27, 40, 41, 53.
89. (25). Dr. Brumme, Detroit.
90a. (36). Dr. Brumme, Detroit. 25, 40.
90b. (25). Dr. Brumme, Detroit.
90c. (22). Dr. Brumme, Detroit.
90d. (18). Dr. Brumme, Detroit.
91. (20). Dr. Haynes, Brooklyn, N. Y.
92. (70). Dr. Ballard, Baltimore. 13, 27, 40.
93. (|| 50 & 100 [p]). Dr. Cassidy, Baltimore. 21, 33, 37, 40.
94. (20 = 50 fair [p]). Dr. Knill, Detroit. 13, 21, 27, 33, 40, 57.
95. (46 = 100 good). Dr. Watson, Baltimore. 13, 21, 31, 40, 41, 54, 57.
96. (44 = 100 good). Dr. Spencer, San Francisco. 13, 21, 27, 31, 40, 41, 54, 57, 58.
97. (7 = 50 good [p]). Dr. Goldman, Baltimore. 21, 33, 40, 56.
98. (125). Dr. Atkinson, Baltimore. 13, 16, 21, 40.
99. (27). Dr. Carr, Durham, N. C. 13, 21, 27, 40.
100. (27 = 50 poor). Dr. Pole, Baltimore. 41, 57.

101. Dr. Pole, Baltimore.
102. Dr. Pole, Baltimore.
103. Dr. Pole, Baltimore.
104. (12 = 50 fair [p]). Dr. West, Bellaire, Ohio. 21, 33, 40.
105. (48). Dr. Watson, Baltimore. 13, 21, 27, 40, 41.
106. (17 + 50 good). Dr. Gardner, Baltimore. 13, 21, 27, 28, 36, 40, 41, 57, 58.
107. (fair [p]). Dr. Gibbs, Baltimore.
108. (22 = 45 fair). Dr. Sudler, Baltimore. 54, 57, 58.
109. (11 + 20 good). Dr. Cushing, Baltimore. 13, 21, 24, 25, 27, 28, 32, 34, 36, 39, 40, 41, 45, 46, 47, 50, 53, 56, 58.
110. (8 = 100 fair [p]). Dr. West, Bellaire, Ohio. 21, 38, 37, 40.
111. (1½ + 10 poor [p]). Dr. Gray, Washington.
112. (4 = 10 poor). Dr. Gray, Washington.
113. (8 = 10 fair). Dr. Gray, Washington. 24, 40, 41, 48, 53.
114. (10 = 10 fair). Dr. Gray, Washington. 24, 40, 41, 52, 53.
115. (3 + 20 good [p]). Dr. Atkinson, Baltimore. 21, 33, 37, 40.
116. (5 = 20 good). Dr. Ryan, Springfield, Ill. 13, 21, 24, 27, 40, 41, 53.
117. (100). Dr. Ballard, Baltimore. 13, 21, 27, 40.
118. (25). Dr. Booker, Baltimore. 13, 21, 27, 40, 41.
119. (50 good [p]). Dr. Biedler, Baltimore.
120. (24). Dr. Chittenden, Binghamton, N. Y.
121. (210). Dr. Ballard, Baltimore. 13, 21, 27, 40.
122. (5 = 100 good [p]). Dr. Williams, Baltimore. 21, 33, 40.
123. (2 = 20 fair [p]). Dr. Boldt, New York. 21, 30, 33, 37, 40.
124. (35 = 50 & 100 poor [p]). Dr. Cassidy, Baltimore. 21, 33, 37, 40.
125. (58). Dr. Ballard, Baltimore.
126. (125). Dr. Ballard, Baltimore.
127. (24). Dr. Gundry, Baltimore. 21, 40.
128. (20 || 50 good). Dr. Lupton, Baltimore. 21, 33, 34, 40, 54.
129. (32). Dr. Gundry, Baltimore. 21, 25, 40.
130. (4 + 20 & 100 poor [p]). Dr. Saussure, Charleston, S. C. 21, 30, 33, 37, 40.
131. (95). Dr. Watson, Baltimore.
132. (15 + 50 good [p]). Dr. Lamb, Washington. 21, 33, 37, 40.
133. (12 || 100 fair [p]). Dr. Hundley, Baltimore. 21, 33, 40.
134. (9 good [p]). Dr. Sommer, Trenton, N. J. 21, 30, 33, 37, 40.
135. (9 + 50 good [p]). Dr. Mosely, Baltimore. 21, 33, 37, 40.
136. (5 || 50 good [p]). Dr. Campbell, Halifax. 21, 24, 33, 37, 40.
137. (16 = 50 fair [p]). Dr. Watson, Baltimore. 21, 30, 33, 40.
138. (112). Dr. Watson, Baltimore. 21, 27, 40, 41.
139. (55). Dr. Boldt, New York. 41.
140. (40). Dr. Johnson, Washington.
141. (8 = 50 fair [p]). Dr. West, Bellaire, Ohio. 21, 33, 37, 40.
142. (20 = 50 good [p]). Dr. Sommers, Trenton, N. J. 21, 33, 37, 40.
143. (25 = 50 poor [p]). Dr. Stick, Glenville, Pa. 21, 30, 33, 37, 40.
144. (14 = 40 good). Dr. Watson, Baltimore. 21, 24, 26, 27, 28, 34, 36, 40, 41, 49, 50, 52, 53, 56, 57, 58.
145. (33 = 50 & 100 good). Dr. Watson, Baltimore. 21, 27, 40, 48, 50, 54, 56, 57, 58.
146. (95 + 100 fair). Dr. Watson, Baltimore. 21, 27, 40, 41.
147. (1 = 50 fair [p]). Dr. Pole, Baltimore. 21, 30, 33, 37, 40.
148. (4 3/10 + 10 good). Dr. Hoen, Baltimore. 21, 24, 27, 28, 40, 41, 43, 44, 49.
149. (130). Dr. Hoen, Baltimore. 27, 33, 40, 41.
150. (5 = 20 fair [p]). Dr. Oertel, Augusta, Ga. 21, 33, 40.
151. (52). Dr. Ramsey, Baltimore. 41.
152. (31 = 100 poor [p]). Dr. Boldt, New York. 21, 33, 40.
153. (good [p]). Dr. Stick, Glenville, Pa. 21, 33, 37, 40.
154. ([p]). Dr. Boldt, New York.
155. (15). Dr. Kerr, Ithaca, N. Y.
156. (12). Dr. Kerr, Ithaca, N. Y.
157. (). Dr. Russell, Baltimore.
158. (2 = 50 poor [p]). Dr. Howard, Cleveland. 37, 40.
159. ([p]). Dr. Golden, Elkins, W. Va. 21, 37, 40.
160. (18). Dr. MacCallum, Baltimore.
161. (10 || 50 fair [p]). Dr. Cassidy, Baltimore. 21, 33, 40.
162. (1 + 50 fair [p]). Dr. Wanstall, Baltimore. 37, 40.
163. (9 + 20 good). Dr. Lamb, Washington. 24, 25, 28, 32, 34, 36, 39, 40, 41, 45, 46, 47, 48, 50, 52, 56, 58.
164. (3½ + 20 fair). Dr. MacCallum, Baltimore. 24, 32, 34, 38, 40, 41, 52, 53.
165. (). Dr. Sampson, Cambridge, Md.
166. (2½ + 50 good [p]). Dr. Cassett, Baltimore. 37, 40.
167. (14½). Dr. Ritter, Brooklyn. 28, 40, 48.
168. (17). Dr. Lamb, Washington.
169. (52). Dr. Watson, Baltimore. 41.
170. (125 + 100 poor). Dr. Watson, Baltimore. 41.
171. (60). Dr. Irving Miller, Baltimore. 48.
172. (80 + 100 good). Dr. Watson, Baltimore. 54.
173. ([p]). Dr. Jump, Testa Mines, Cal.
174. (13 + 50 & 100 good [p]). Dr. Gibbs, Baltimore. 37, 40.
175. (13 + 20 good). Dr. Boldt, New York. 28, 36, 40, 41, 46, 48, 51, 52, 53, 56, 57, 58.

176. (38). Dr. Kerr, Ithaca, N. Y. 48.
177. (12 + 50 & 100 good [p]). Dr. Harrison, Baltimore. 37, 40.
178. (35). Dr. Cassidy, Baltimore. 57.
179. (70). Dr. Stone, Baltimore. 41.
180. (2 + 30 good [p]). Dr. Dodge, Rochester, N. Y. 37, 40.
181. ([p]). Dr. Lamb, Washington. 37, 40.
182. (50 & 100 fair [p]). Dr. Lamb, Washington. 37, 40.
183. (28). Dr. Boldt, New York.
184. (50 = 50 & 100 good). Dr. Russell, Baltimore. 48, 54, 57, 58.
185. (good [p]). Dr. Sabin, Baltimore. 37, 40.
186. (3½ + 20 good). Dr. Boldt, New York. 58.
187. (9 = 20 fair [p]). Dr. Cassidy, Baltimore. 48.
188. (17 + 100 fair [p]). Dr. Sommer, Trenton, N. J. 37, 40, 56, 57.
189. (4 + 50 good [p]). Dr. Oertel, Augusta, Ga. 37, 40.
190. ([p]). Dr. Ellis, Elkton, Md. 37, 40.
191. ([p]). Dr. Ellis, Elkton, Md. 37, 40.
192. (27). Dr. Larsen, Chicago.
193. (40). Dr. Fuchs, Loyal, Wis.
194. (21). Dr. Lamb, Washington.
195. ([p]). Dr. Lamb, Washington. 37, 40.
196. (3 || 50 fair [p]). Brödel Collection. 37, 40.
197. (6 wks., normal). Dr. Little, Baltimore.
198. (7 || 100 fair [p]). Dr. Larsen, Chicago. 37, 40.
199. (35 = 50 fair). 54, 57.
200. (14 || 50 fair [p]). Dr. Skilling, Lonaconing, Md. (Brödel Collection).
37, 40.
201. (20 + 50 good [p]). Dr. Shelly, Baltimore (Brödel Collection). 37, 40.
202. (30). Dr. Ottley, Baltimore.
203. (28). Dr. Fuchs, Loyal, Wis.
204. ([p]). Dr. Lamb, Washington. 37, 40.
205. (6 || 50 good [p]). Dr. Lamb, Washington. 37, 40.
206. (40). Dr. Lamb, Washington. 41.
207. (16 = 100 fair [p]). Dr. Horn, Baltimore (Brödel Collection). 37, 40.
57.
208. (7 = 20 poor). Dr. Dale, Lamont, Pa.
209. (3 + 50 fair). Dr. Sommer, Trenton, N. J.
210. (35). Dr. Lamb, Washington.
211. (33 = 50 & 100 good). Dr. Spencer, San Francisco. 54, 57.
212. (7 + 100 fair [p]). Dr. West, Bellaire, Ohio.
213. (37). Dr. Cassidy, Baltimore.
214. (19). Dr. Hurdon, Baltimore.
215. (15 [p]). Dr. Unger, Mercersburg, Pa. (Brödel Collection).
216. (17 + 50 & 100 good [p]). Dr. Wegefarth, Baltimore (Brödel Collection).
56, 57, 58.
217. (45). Dr. Merrill, Stillwater, Minn.
218. (42). Brödel Collection. 41.
219. (115 = 100 poor). Brödel Collection. 41.
220. (150 + 100 poor). Brödel Collection.
221. (12 = 20 fair). Dr. Perkins, Cleveland, Ohio. 52, 58.
222. ([p]). Dr. Steele, Cambridge, Md. (Brödel Collection).
223. ([p]). Dr. Wilkins, Baltimore (Brödel Collection).
224. (40 = 50 & 100 good). Dr. West, Bellaire, Ohio. 54, 57.
225. (46). Dr. Wegefarth, Baltimore (Brödel Collection). 50.
226. (25 + 50 & 100 good [p]). Dr. West, Bellaire, Ohio. 56, 57.
227. (30 = 50 & 100 good). Dr. Ingle, Baltimore. 54.
228. (3½ = 50 fair [p]). Dr. West, Bellaire, Ohio.
229. (21 = 50 good). Dr. Sandrock, Baltimore. 56, 57.
230. (60 = 50 & 100 good [p]). Dr. West, Bellaire, Ohio.
231. (13 + 100 poor). Brödel Collection.
232. (14 + 100 fair [p]). Brödel Collection.
233. ([p]). Dr. Preston Miller, Hagerstown, Md. (Brödel Collection).
234a. (80 + 50 good). Dr. Ashby, Baltimore (Brödel Collection). 50.
234b. (65). Brödel Collection. 50.
235. (59). Dr. Linthicum, Savage, Md. (Brödel Collection). 50.
236. (92). Dr. Wilson, Tilgham, Md. (Brödel Collection).
237. (48). Dr. Todd, Mt. Washington, Md. (Brödel Collection). 50.
238. (90). Dr. Smart, Baltimore. (Brödel Collection). 50.
239. (3 + 10 fair). Dr. Morse, Boston.
240. (6). Dr. West, Bellaire, Ohio.
241. (6). Dr. Sandrock, Baltimore. 58.
242. (23 + 40 fair [p]). Brödel Collection.
243. ([p]). Dr. Miller, Hagerstown, Md. (Brödel Collection).
244. (4 + 20 [p]). Dr. Kelly, Baltimore (Brödel Collection).
245. (7 + 5 poor). Dr. Irving Miller, Baltimore.
246. (3 + 20 fair [p]). Dr. Wegefarth, Baltimore (Brödel Collection).
247. (2½ + 20 fair [p]). Dr. Seymour, Trappe, Md. (Brödel Collection).
248. (4½ + 50 poor). Mr. Winternitz, Baltimore.
249. ([p]). Dr. Hektoen, Chicago.
250. (2 + 20 fair [p]). Dr. Sampson, Baltimore.
251. ([p]). Dr. Ritter, Brooklyn, N. Y.
252. (3 + 20 [p]). Dr. Lamb, Washington.
253. (3 + 20 good [p]). Brödel Collection.

BIBLIOGRAPHY.

Titles of papers based entirely or in part upon the collection of human embryos at the Anatomical Laboratory.

1. F. P. Mall.—A human embryo twenty-six days old. *Jour. of Morph.*, V, 1891.
2. F. P. Mall.—Development of the lesser peritoneal cavity in birds and mammals. *Ibid.*, V, 1891.
3. F. P. Mall.—A human embryo of the second week. *Anat. Anz.*, VIII, 1893.
4. F. P. Mall.—Early human embryos and the mode of their preservation. *Johns Hopkins Hospital Bulletin*, 1893.
5. F. P. Mall.—Coelom. *Ref. Handb. Med. Sci.*, Supplement, 1893.
6. F. P. Mall.—The heart. *Ibid.*
7. F. P. Mall.—Development of the thymus. *Ibid.*
8. F. P. Mall.—Development of the thyroid. *Ibid.*
9. F. P. Mall.—Human embryos. *Ibid.*
10. F. P. Mall.—Development of the human coelom. *Jour. of Morph.*, XII, 1897.
11. F. P. Mall.—Ueber die Entwicklung des menschlichen Darmes und seiner Lage beim Erwachsenen. *Arch. f. Anat. u. Physiol.*, Supplementband, 1897.
12. F. P. Mall.—Development of the ventral abdominal walls in man. *Jour. of Morphol.*, XIV, 1898.
13. F. P. Mall.—The value of embryological specimens. *Maryland Medical Jour.*, 1898.
14. F. P. Mall.—Development of the internal mammary and deep epigastric arteries in man. *Johns Hopkins Hospital Bulletin*, 1898.
15. F. P. Mall.—Development of the human intestine and its position in the adult. *Ibid.*
16. J. B. MacCallum.—On the histogenesis of the striated muscle fibre, and the growth of the sartorius muscle. *Ibid.*
17. W. F. Hendrickson.—The development of the bile capillaries as revealed by Golgi's method. *Ibid.*
18. F. P. Mall.—Supplementary note on the development of the intestine. *Anat. Anz.*, XVI, 1899.
19. L. F. Barker.—The nervous system. D. Appleton & Co., New York, 1899.
20. J. G. Clark.—The origin, development and degeneration of the blood-vessels of the human ovary. *Welch Festschrift*, Johns Hopkins Hospital Reports, IX, 1900.
21. F. P. Mall.—A contribution to the study of the pathology of early human embryos. *Ibid.*
22. J. M. Berry.—On the development of the villi of the human intestine. *Anat. Anz.*, XVII, 1900.
23. J. B. MacCallum.—On the muscular architecture and growth of the ventricles of the heart. *Welch Festschrift*, Johns Hopkins Hospital Reports, IX, 1900.
24. F. P. Mall.—On the development of the human diaphragm. *Johns Hopkins Hospital Bulletin*, 1901.
25. W. H. Lewis.—Observations on the pectoralis major muscle in man. *Ibid.*
26. R. G. Harrison.—On the occurrence of tails in man, with a description of a case reported by Dr. Watson. *Ibid.*
27. F. P. Mall.—Age of human embryos. *Ref. Handb. Med. Sci.*, 2nd ed., III, 1901.
28. C. B. Bardeen and W. H. Lewis.—Development of the limbs, body-wall and back in man. *Amer. Jour. of Anat.*, I, 1901.
29. F. P. Mall.—Comparative development of the coelom. *Ref. Handb. Med. Sci.*, III, 1901.
30. F. P. Mall.—Development of the human coelom. *Ibid.*
31. Margaret Long.—On the development of the nuclei pontis during the second and third months of embryonic life. *Johns Hopkins Hospital Bulletin*, 1901.
32. W. H. Lewis.—The development of the arm in man. *Amer. Jour. of Anat.*, I, 1902.
33. F. P. Mall.—Pathological human embryos. *Ref. Handb. Med. Sci.*, 2nd ed., III, 1901.
34. J. B. MacCallum.—Notes on the Wolffian body of higher mammals. *Amer. Jour. of Anat.*, I, 1902.
35. F. P. Mall.—Development of the heart. *Ref. Handb. Med. Sci.*, 2nd ed., IV, 1902.
36. M. T. Sudler.—The development of the nose and of the pharynx and its derivatives in man. *Amer. Jour. of Anat.*, I, 1902.
37. F. P. Mall.—Second contribution to the study of the pathology of early human embryos. *Contributions to Medical Research*. Dedicated to Victor C. Vaughan, Ann Arbor, 1903.
38. J. W. Williams.—Obstetrics. D. Appleton & Co., New York, 1903.
39. W. H. Lewis.—Human Embryology.—*New International Encyclopedia*, New York, 1903.
40. F. P. Mall.—Note on the collection of human embryos in the Anatomical Laboratory of Johns Hopkins University. *Johns Hopkins Hospital Bulletin*, 1903.
41. F. P. Mall.—On the transitory or artificial fissures of the human cerebrum. *Amer. Jour. of Anat.*, II, 1903.

42. R. M. Pearce.—On the development of the islands of Langerhans in the human embryo. *Amer. Jour. of Anat.*, II, 1903.
43. S. P. Gage.—Serial order of the segments in the fore-brain of three and four-weeks human embryos. *Science*, N. S., XVII, 1903.
44. S. P. Gage.—The mesonephros of a three-weeks human embryo. *Amer. Jour. of Anat.*, III, p. vi, 1904.
45. F. P. Mall.—Development of the thymus gland. *Ref. Handb. Med. Sc.* 2nd ed., VI, 1904.
46. F. P. Mall.—Development of the thyroid. *Ibid.*
47. W. H. Lewis.—Development of the foetus. *Ibid.*
48. A. W. Myers.—On the structure of the human umbilical vesicle. *Amer. Jour. of Anat.*, Vol. 3, 1904.
49. G. L. Streeter.—Peripheral development of the nerves in the occipital region of the human embryo. *Amer. Jour. of Anat.*
50. F. P. Mall.—On the development of the blood-vessels of the brain in the human embryo. *Ibid.*
51. A. G. Pohlman.—Concerning the embryology of kidney anomalies. *Amer. Med.*, 1904.
52. A. G. Pohlman.—The abnormalities in the form of the kidney and ureter dependent on the development of the renal bud. *Johns Hopkins Hospital Bulletin*.
53. A. G. Pohlman.—The development of the cloaca in human embryo. *Amer. Jour. of Anat.*
54. A. G. Pohlman.—On the development and position of Cowper's gland in human embryos. *Ibid.*
55. F. R. Sabin.—On the development of the lymph heart in the human embryo.
56. C. R. Bardeen.—The development of the spinal column and the skeleton of the posterior limb. *Amer. Jour. of Anat.*
57. C. R. Bardeen.—Vertebral variations in the human adult and embryo. *Anatom. Anzeiger*.
58. C. R. Bardeen.—Development of the thoracic vertebrae in man. *Amer. Jour. of Anatomy*.
59. W. H. Lewis.—On the early development of the human skull.
60. M. Brüdell.—On the development of the human appendix.
61. F. Hinman.—On the development of the muscles of the palate and pharynx in the human embryo.
62. W. H. Lewis.—The development of the muscles of the head.
63. F. P. Mall.—Catalogue of the collection of human embryos in the Anatomical Laboratory of the Johns Hopkins University. Baltimore, 1904.
- Note.—The references of the papers from No. 49 on are incomplete for the papers are still in press.

LANE MEDICAL LIBRARY

To avoid fine, this book should be returned on
or before the date last stamped below.

JAN 11 1957

E601
J66
JOHNS HOPKINS
ANATOMICAL LAB

E601
J66
1904
Johns Hopkins u
Anatomical lab
Collection of
EMBRYOS.

NAME

del. via
K-3-12

DATE

JAN 11 1957

98-4

42. H. M. Penese.—On the development of the islands of Langerhans in the human embryo. *Amer. Jour. of Anat.*, II, 1903.
43. R. P. Dagg.—Serial order of the segments in the fore-brain of three and four-week human embryos. *Science*, N. S., XVII, 1903.
44. R. P. Dagg.—The mesencephalon of a three-week human embryo. *Amer. Jour. of Anat.*, III, p. vi, 1904.
45. F. P. Mall.—Development of the thymus gland. *Ref. Handb. Med. Sc.* 2nd ed., VI, 1904.
46. F. P. Mall.—Development of the thyroid. *Ibid.*
47. W. H. Lewis.—Development of the foetus. *Ibid.*
48. A. W. Myers.—On the structure of the human umbilical vessels. *Amer. Jour. of Anat.*, Vol. 8, 1904.
49. G. L. Streeter.—Peripheral development of the nerves in the scapular region of the human embryo. *Amer. Jour. of Anat.*
50. F. P. Mall.—On the development of the blood-vessels of the brain in the human embryo. *Ibid.*
51. A. G. Pohlman.—Concerning the embryology of kidney anomalies. *Amer. Med.*, 1904.
52. A. G. Pohlman.—The abnormalities in the form of the kidney and ureter dependent on the development of the renal bud. *Johns Hopkins Hospital Bulletin*.
53. A. G. Pohlman.—The development of the cloaca in human embryo. *Amer. Jour. of Anat.*
54. A. G. Pohlman.—On the development and position of Cowper's gland in human embryo. *Ibid.*
55. F. R. Sabin.—On the development of the lymph heart in the human embryo.
56. C. R. Hurdson.—The development of the spinal column and the skull of the posterior limb. *Amer. Jour. of Anat.*
57. C. R. Hurdson.—Vertebral variations in the human adult and embryo. *Anatom. Anzeiger*.
58. C. R. Hurdson.—Development of the thoracic vertebrae in man. *Amer. Jour. of Anatomy*.
59. W. H. Lewis.—On the early development of the human skull.
60. M. Bissel.—On the development of the human appendix.
61. F. Homan.—On the development of the muscles of the palate and pharynx in the human embryo.
62. W. H. Lewis.—The development of the muscles of the head.
63. F. P. Mall.—Catalogue of the collection of human embryos in the Anatomical Laboratory of the Johns Hopkins University. Baltimore, 1904.
- Note.—The references of the papers from No. 49 on are incomplete for the papers are still in press.

LANE MEDICAL LIBRARY

To avoid fine, this book should be returned on
or before the date last stamped below.

JAN 11 1957

E601
J66
1904

JOHNS HOPKINS UNIV
LABORATORY
E601 Johns Hopkin
J66 Anatomical
1904 Collection

EMBRYOS.
NAME

del. sides
K-3-12

