

Catalogue of the papers and correspondence of

**Sir Alan Lloyd Hodgkin OM FRS**

(1914 - 1998)

**VOLUME 3**

Section D, Drafts and publications

Section E, Lectures and speeches

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Index of correspondents

by Simon Coleman, Peter Harper and Timothy E. Powell

NCUACS catalogue 136/1/05



**Drafts and publications**

- |          |  |                   |
|----------|--|-------------------|
| D.3-D.4  | Typescript, revised from the draft in D.2, with further manuscript and typescript revisions. Figures are included.   |                   |
|          | 2 folders.   |                   |
| D.5-D.7  | Manuscript draft (unidentified) and theoretical notes, apparently relating to this paper. Included at D.6 is a letter to Hodgkin from Rawdon Smith (December 1939) <i>re</i> experimental equipment. | c.1938-<br>c.1944 |
|          | These papers were found with the typescripts of the paper in D.2-D.4.  |                   |
|          | 3 folders.   |                   |
| D.8-D.20 | Unpublished paper: 'The theoretical relation between conduction velocity and external resistance and between velocity and diameter in non-medullated nerve fibres'.                                  | c.1938-<br>c.1944 |
| D.8      | Early manuscript draft (with the above title) and manuscript theoretical notes, contents of a file.  | c.1938-<br>c.1944 |
|          | Included is a letter to Hodgkin (1944) from William [?] <i>re</i> Hodgkin's paper etc and manuscript notes on the paper in the same hand.  |                   |
| D.9      | Later 19pp manuscript draft with revisions.  | c.1938-<br>c.1944 |
|          | A page from [?another] manuscript draft is included.   |                   |
| D.10     | Typescript and manuscript draft with extensive manuscript revisions; typescript revised version.   | c.1938-<br>c.1944 |
| D.11     | 'An account of experiments performed on the giant fibre of the squid by A.L Hodgkin and A.F. Huxley in August 1939',   | 1939              |
|          | Incomplete 13pp typescript so entitled, with manuscript revisions in Hodgkin's hand.   |                   |

**Drafts and publications**

D.12	'Resistance data', contents of a file so inscribed. Manuscript experimental data.	1938
D.13	'Resistance length', contents of a file so inscribed. Manuscript experimental data.	1938
D.14	'Preliminary resistance length', contents of a file so inscribed.	1938
D.15	'Conduction rate data', contents of a file so inscribed. Manuscript experimental data.	1938
D.16	'Resistance calculations', contents of a file so inscribed. Manuscript equations and one page of a rough manuscript draft.	c.1938
D.17-D.18	'D.C. Resistance. Data and analysis', contents of a file so inscribed. Manuscript data and theoretical notes. 2 folders.	c.1938
D.19	'Size of spikes', contents of a file so inscribed.	c.1938
D.20	Miscellaneous manuscript notes and data.	c.1938- c.1944

**Drafts and publications**

- |           |  |           |
|-----------|--|-----------|
| D.21-D.44 | 'The electrical constants of a crustacean nerve fibre', with W.A.H. Rushton, <i>Proceedings of the Royal Society B</i> 133, 1946.<br><br>Contents of a box file inscribed '1939-1945. Electrical constants, lobster data & notes for paper'. | 1939-1945 |
| D.21      | 46pp typescript and manuscript draft with manuscript revisions. Legends for figures are included.  |           |
| D.22      | Later typescript draft with manuscript revisions.  |           |
| D.23-D.24 | 'Membrane R & C. Notes and calculations'.<br><br>36pp manuscript draft of the paper; parts of other manuscript drafts and some pages of notes.<br><br>A few notes are in a hand other than Hodgkin's.<br><br>2 folders.                      |           |
| D.25      | 'May 5. Preparation 2', contents of a file so inscribed.<br><br>Manuscript experimental data.  | 1939      |
| D.26      | '15.5.39', contents of a file so inscribed.<br><br>Manuscript experimental data.   | 1939      |
| D.27      | 'May 21', contents of a file so inscribed.<br><br>Manuscript experimental data.  | 1939      |
| D.28      | 'May 31', contents of a file so inscribed.<br><br>Manuscript experimental data.  | 1939      |

**Drafts and publications**

D.29	'June 7', contents of a file so inscribed. Manuscript experimental data.	1939
D.30	'June 13', contents of a file so inscribed. Manuscript experimental data.	1939
D.31	'June 14', contents of a file so inscribed. Manuscript experimental data.	1939
D.32	'June 20', contents of a file so inscribed. Manuscript experimental data.	1939
D.33	'June 25. Axon II. End for figures', contents of a file so inscribed. Manuscript experimental data.	1939
D.34	'June 25. Axon II. Beginning of experiment (first reel)', contents of a file so inscribed. Manuscript experimental data.	1939
D.35	'June 25. Axon II reel 2. 1939', contents of a file so inscribed. Manuscript experimental data.	1939
D.36	'June 25 Axon I', contents of a file so inscribed. Manuscript experimental data.	1939
D.37	'June 27', contents of a file so inscribed. Manuscript experimental data.	1939

**Drafts and publications**

D.38	'June 29', contents of a file so inscribed.  Manuscript experimental data.	1939
D.39	'Membrane resistance & capacity', contents of a file so inscribed.  Manuscript experimental data.	1939
D.40	'Membrane R & C - spare table', contents of a file so inscribed.  Brief manuscript data.	1939
D.41	'Membrane R & C theoretical curves', contents of a file so inscribed.  Manuscript graphs.	1939
D.42	'Miscellaneous tables and information', contents of a file so inscribed.  Manuscript data etc for paper.	1939
D.43	Figures.	1939
D.44	Theoretical notes, contents of an unmarked file.	c.1939
D.45-D.65	'Potassium leakage from an active nerve fibre', with A.F. Huxley, <i>Journal of Physiology</i> 106, 1947.  Contents of a box file entitled '1946 potassium & carcinus'.	1945-c.1947
D.45	Manuscript draft; manuscript notes and data, some in A.F. Huxley's hand.	

**Drafts and publications**

- D.46 Manuscript draft.
- D.47 Typescript draft, with manuscript revisions, and figures.
- D.48 Contents of a file inscribed 'Letter to Nature'.  
  
Hodgkin and Huxley appear to have written the letter which relates to the experiments covered in this article.  
  
3pp manuscript draft of the letter entitled 'Apparent potassium leakage from an active nerve fibre'; typescript draft and typescript revised version, both with the same title as the published article.
- D.49 'March 15', contents of a file so inscribed. 1946  
  
Manuscript experimental data.
- D.50 'March 23 1946. Linearity of membrane resistance', contents of a file so inscribed. 1946  
  
Manuscript experimental data.
- D.51 'March 25th 1946. Linearity of membrane resistance', contents of a file so inscribed. 1946  
  
Manuscript experimental data.
- D.52 'Change in large volume of sea water. April 23rd, July 5th, July 9', contents of a file so inscribed. 1946  
  
Manuscript experimental data and theoretical notes.
- D.53 '27.4.46. Tetanising effect and L in oil', contents of a file so inscribed. 1946  
  
Manuscript data and analytical notes.

**Drafts and publications**

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|------|--|------|
| D.54 | 'May 1 1946. Number of impulses and $\beta$ ', contents of a file so inscribed.<br><br>Manuscript data and calculations, some in A.F. Huxley's hand. | 1946 |
| D.55 | 'May 13 & May 15. Long tetani', contents of a file so inscribed.<br><br>Manuscript experimental data, mostly in A.F. Huxley's hand.                  | 1946 |
| D.56 | 'May 20 1946. Comparison of 30mM KCl & tetanus', contents of a file so inscribed.<br><br>Manuscript experimental data, mostly in A.F. Huxley's hand. | 1946 |
| D.57 | 'May 22. KCl on C & R change', contents of a file so inscribed.<br><br>Manuscript experimental data and calculations.                                | 1946 |
| D.58 | 'May 27 1946. 1 min tetanus & 30 mM KCl', contents of a file so inscribed.<br><br>Brief manuscript experimental data in A.F. Huxley's hand.          | 1946 |
| D.59 | 'May 29 & June 3. "Dunking" in SW'.<br><br>Manuscript experimental data, mostly in A.F. Huxley's hand.   | 1946 |
| D.60 | 'July 23 1946'.<br><br>Manuscript experimental data.   | 1946 |

**Drafts and publications**

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|-----------|---|-----------------------|
| D.61-D.65 | Miscellaneous manuscript experimental data and theoretical notes etc.<br><br>Chiefly in Hodgkin's hand.<br><br>Included at D.63 is a letter from A.F. Huxley to Hodgkin <i>re</i> a mathematical formula.<br><br>5 folders. | December<br>1945-1946 |
| D.66-D.73 | '1947 Repetitive action Carcinus & K paper MS', contents of a box file so inscribed.  | 1946-1947             |
| D.66-D.67 | 'The effect of potassium on the surface membrane of an isolated axon', <i>Journal of Physiology</i> 106, 1947.  |                       |
| D.66      | Manuscript draft with manuscript notes.<br><br>Some pages appear to be disarranged; they have been kept in the order in which found.  |                       |
| D.67      | 34pp typescript draft.  |                       |
| D.68-D.71 | 'The local electric changes associated with repetitive action in a single nerve fibre', <i>Abstr. Commun. XVII int. physiol Congr. Oxford</i> , 1947.   |                       |
| D.68      | 25pp typescript draft, with manuscript revisions, and figures.  |                       |
| D.69-D.70 | Manuscript data etc.<br><br>Found with the draft in D.68.<br><br>2 folders.   |                       |
| D.71      | Figures.  |                       |



### Drafts and publications

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Included also are manuscript notes, some headed 'A.F.H.'s Notes on Conduction Velocity' with an inscription '?From 1950-1951 Notebook' (the remainder of the notes are later in date).

The draft is for a chapter of an unidentified book.

D.79 'Transverse theory. Cole etc', contents of a file so inscribed.

Manuscript theoretical notes, a few in an unidentified hand.

D.80 'Transverse impedance', contents of a file so inscribed.

Manuscript draft entitled 'Electrical measurements with transverse electric fields'.

The pages are in a partly disarranged state. Manuscript notes are included.

D.81 'Saltatory conduction etc', contents of a file so inscribed.

2 manuscript drafts, entitled 'Saltatory conduction in myelinated nerve' and 'Conduction velocity in myelinated axons', of chapters for a book (see D.78); letter from A.F. Huxley to Hodgkin; manuscript theoretical notes.

D.82 Miscellaneous manuscript theoretical notes.

D.83-D.93 'Book. MS & notes', contents of a box file so inscribed.

c.1947

Apparently unpublished. The intended titles of some sections and chapters are not always clear.

D.83 'Book MS', contents of a file so inscribed.

Manuscript drafts of various chapters.

### Drafts and publications

- D.84-D.85            'Book', contents of a file so inscribed.
- Typescript drafts, with manuscript revisions and additions, of various chapters, all headed '1st draft'; a few manuscript draft pages of figures etc.
- 2 folders.
- D.86                 'RHA', contents of a file so inscribed.
- Typescript draft of a chapter, headed '1st draft', with manuscript revisions and additions.
- See D.91 for a manuscript draft of the chapter.
- D.87                 'Chapter 1', contents of a file so inscribed.
- Manuscript draft with extensive revisions.
- D.88                 'Chapter 2', contents of a file so inscribed.
- Manuscript draft; a few pages of another manuscript draft or drafts.
- D.89                 'Ions and electrical potential difference', contents of a file so inscribed.
- Manuscript draft of a chapter or chapters, with further manuscript notes.
- D.90                 'Cable maths', contents of a file so inscribed.
- Manuscript mathematical equations.
- D.91                 'K<sup>+</sup>, Cl<sup>-</sup> and the resting potential of skeletal muscle', contents of a file so inscribed.
- Manuscript draft so entitled.
- See D.86 for typescript version.

### Drafts and publications

- D.92 'Muscle. Potential data & Donnan', contents of a file so inscribed.  
  
Chiefly manuscript theoretical notes and calculations.
- D.93 'Rough - can probably be thrown away', contents of a file so inscribed.  
  
Manuscript draft.
- D.94-D.96 'Sodium theory history', contents of a box file so inscribed. 1939-1957
- D.94 'Math. Theory. Carriers & inactivation 1948', contents of a file so inscribed. c.1947-1948  
  
21pp typescript draft entitled 'A theoretical model of nervous transmission' [with A.F. Huxley], with manuscript additions and annotations. Manuscript drafts of figures are included.  
  
On the title page is a note in Hodgkin's hand dated '17.7.70' which details the history of the paper. It was completed in March 1948 but its theories were overtaken by experimental results. Only a few calculations from it were published in the paper 'Ionic currents underlying activity in the giant axon of the squid', with A.F. Huxley and B. Katz, *Arch. Sci. Physiol. III*, 1949.
- D.95-D.96 'History Na theory etc', contents of a file so inscribed.
- D.95 'The effect of sodium ions on the electrical activity of the giant axon of the squid', with B. Katz, *Journal of Physiology* 108, 1949.  
  
2pp manuscript draft, probably incomplete.
- D.96 Three sets of manuscript theoretical notes and calculations by Hodgkin; related notes by A.F. Huxley; brief correspondence; off-print. 1939-1957

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### Drafts and publications

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This material appears to relate to an attempt by Hodgkin and A.F. Huxley in 1957 to establish the chronology of the 'sodium hypothesis' regarding the electrical activity of squid axons. The hypothesis emerged during the experiments at Plymouth, 1947.

On the first page of each of the three sets of notes is a later manuscript note by Hodgkin ?[November 1957] indicating the date, or approximate date, of writing. One of the sets includes a longer note [November 1957] giving Hodgkin's recollections of theoretical analysis (*re* the sodium hypothesis) with A.F. Huxley, c.1946-1947. Huxley's notes (November 1957) are in response to 'ALH's notes dated 6.xi' and give his recollections of the aforementioned theoretical analysis.

The correspondence is as follows: a letter from Huxley to Hodgkin, November 1945 [1946] *re* plans to continue their work (interrupted in 1939 by the outbreak of war) and S.A.S. Krogh's Croonian Lecture (1946); a letter from Hodgkin to K.S. Cole (1946) *re* Hodgkin's and Huxley's nerve experiments. Both letters are relevant to the notes described above.

- D.97-D.98 'Membrane potentials in single fibres of of the frog's *sartorius* muscle', *Journal of Physiology* 108, 1948 [sic - *Biographical Memoirs of Fellows of the Royal Society* vol.46].
- D.97 25pp manuscript draft (and parts of further manuscript drafts); a few pages of typescript drafts; correspondence (1948-1949) with scientific colleagues and publishers in the USA mostly *re* the paper and related experimental work (found with the drafts). c.1948-1949
- D.98 Rough manuscript draft, probably of the article in D.97, with rough notes.
- D.99-D.108 'Sodium & electrical activity 1947-1948 & temp curvature & Ca axoplasm', contents of a box file so inscribed.
- D.99-D.107 'The Effect of sodium ions on the electrical activity of the giant axon of the squid', with B. Katz, *Journal of Physiology* 108, 1949.

**Drafts and publications**

- D.99-D.100            48pp manuscript draft, with figure legends etc.  
2 folders.
- D.101-D.102           Typescript draft with manuscript revisions.  
2 folders.
- D.103-D.107           Manuscript experimental data and calculations etc.            1947-1949  
  
Some papers are in the hand of B. Katz. Included at D.104 are letters (1948-1949) from Katz to Hodgkin re the paper, research work and general matters.
- D.108                   'The effect of calcium on the axoplasm of giant nerve fibres', with B. Katz, *Journal of Experimental Biology* 26, 1949.  
  
6pp typescript draft with manuscript revisions.
- D.109-D.113           'The ionic basis of electrical activity in nerve and muscle', *Biological Review*, 1951.
- D.109                   Incomplete rough manuscript draft (or drafts) in a disarranged state.
- D.110                   'Review calculations", contents of a file so inscribed.            1948  
  
Manuscript calculations etc.
- D.111                   Correspondence (including draft letters by Hodgkin) with various scientists chiefly re the paper etc.            1950-1951, 1955, nd
- D.112                   Manuscript calculations and data.            c.1948-1951  
  
Contents of an unmarked file.

**Drafts and publications**

- D.113 Further manuscript calculations and data, with a few pages of a manuscript draft. c.1948-1951  
Contents of an unmarked file.
- D.114-D.124 'Voltage clamp. Photographs. Figs (spare). MS (prelim). 1948 anal. AFH's numerical calculations (taken 18.9.55 AFH)', contents of a boxfile so inscribed. c.1948-  
c.1952
- D.114-D.116 'A quantitative description of membrane current and its application to conduction and excitation in nerve', with A.F. Huxley, *Journal of Physiology* 117, 1952. c.1952
- D.114-D.115 52pp manuscript draft, with figure legends, tables etc.  
A few pages are in the hand of A.F Huxley. Included at D.115 is a letter (1952) from Huxley to Hodgkin *re* the publication.  
2 folders.
- D.116 Figures with typescript legends.
- D.117 Contents of a file inscribed 'Before 4.8.48'. 1948  
Manuscript graphs and equations.
- D.118 Contents of a file inscribed '4.8.48'. 1948  
Manuscript graphs and calculations.
- D.119 Contents of a file inscribed '11.8.48'.  
Manuscript calculations and graphs.
- D.120-D.121 Manuscript experimental data and theoretical notes. 1948  
Some papers are in A.F. Huxley's hand.  
2 folders.

**Drafts and publications**

- D.122                    'Permeability changes Part II. The time course of the sodium current', contents of a file so inscribed.
- 17pp manuscript draft entitled 'II The time course of the sodium current', with figures.
- D.123                    'Permeability changes Part III. The sodium conductance', contents of a file so inscribed.
- 17pp manuscript draft entitled "III The sodium conductance".
- D.124                    Material for figures etc and a few pages of a manuscript draft.
- The material may relate to the draft in D.114-D.116 or to another publication.
- D.125-D.132            'Mobility 1949-1952. K transport & current. 1950-52',            1949-1952  
contents of a box file so inscribed.
- D.125                    'The mobility and diffusion coefficient of potassium in giant axons from *sepia*', with R.D. Keynes, *Journal of Physiology* 119, 1953.
- 20pp manuscript draft with figure legends.
- D.126-D.128            'Mobilities 1949 & 1950', contents of a file so inscribed.            1949-1952
- Manuscript data and calculations.
- 3 folders.
- D.129                    'Mobility', contents of a file so inscribed.
- Manuscript theoretical notes.

**Drafts and publications**

- D.130-D.131      'Membrane current & flux of K', contents of a file so inscribed.      1949-1950
- Manuscript experimental data and calculations. In D.130 are a few pages of a manuscript draft. In D.131 are a few pages of a manuscript draft lecture.
- A few pages are in A.F. Huxley's hand.
- 2 folders.
- D.132      'Spare figures', contents of a file so inscribed.
- D.132A      Untitled manuscript and typescript drafts of a paper (or papers); correspondence *re* publication (*Journal of Physiology*).      1954
- D.133-D.150      'After-effects. Active transport', contents of a file so inscribed.      c.1949-  
c.1956
- The papers in these folders appear to all relate to the two publications described in D.133-D.138. The material in D.139-D.150 appears to have been used in the preparation of one or both of the publications.
- D.133-D.137      'The after-effects of impulses in the giant nerve fibres of *Loligo*', with B. Frankenhaeuser, *Journal of Physiology* 131, 1956.
- D.133-D.134      50pp manuscript draft with figure legends (a few typescript) etc.
- 2 folders.
- D.135-D.136      Typescript draft with manuscript revisions and inserts.
- 2 folders.

**Drafts and publications**

- D.137                    'After-effects misc', contents of a file so inscribed.                    1955  
  
Brief correspondence *re* the paper and related research,  
1955; pages of a manuscript draft or drafts.
- D.138                    'Active transport of cations in giant axons from *sepia* and  
*loligo*', with R.D. Keynes, *Journal of Physiology* 128,  
1955.  
  
45pp manuscript draft (untitled) of the paper.
- D.139-D.142            'Sodium outflux Oct. 1951', contents of a file so inscribed.            1951-1954  
  
Manuscript experimental data and calculations etc.  
Included are a few pages of manuscript and typescript  
drafts.  
  
4 folders.
- D.143                    '4.XI.55 K calib etc', contents of a file so inscribed.                    1954-1955  
  
Manuscript experimental data.
- D.144                    'Physiology. R.D. Keynes', contents of a file so inscribed.                    1952  
  
Typescript summaries of experimental results.
- D.145-D.150            Miscellaneous data, calculations, theoretical notes and            c.1949-1954  
drafts for tables and figures.  
  
6 folders.
- D.151-D.177            Contents of two box files inscribed respectively  
'Calcium voltage clamps with Frankenhaeuser. 1954  
exp.' [1]  
'Ca 45 etc. Microinjection. Ca unpublished records. Ca  
- voltage clamps (overflow)'. [2]

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**Drafts and publications**

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These two box files have been listed together as a large part of their contents relates to Hodgkin's paper with Frankenhaeuser (see D.151-D.167 below). For convenience they are referred to as [1] and [2].

The material in D.169-D.177 almost certainly relates to one or both of the two publications described in these folders.

- |             |  |           |
|-------------|--|-----------|
| D.151-D.167 | 'The action of calcium on the electrical properties of squid axons', with B. Frankenhaeuser, <i>Journal of Physiology</i> 137, 1957.   | 1954-1957 |
| D.151       | 39pp manuscript draft.<br><br>Found in box file [2].   |           |
| D.152       | Typescript draft with manuscript revisions, some in an unidentified hand.<br><br>Found in box file [1].  |           |
| D.153       | Typescript draft with further manuscript revisions.<br><br>Found in box file [2].  |           |
| D.154-D.155 | Correspondence between Hodgkin and Frankenhaeuser, chiefly <i>re</i> the work on their paper.<br><br>Included is a small amount of other correspondence <i>re</i> the paper's publication.<br><br>2 folders.<br><br>Found in box file [1]. | 1954-1957 |
| D.156-D.159 | 'Before 13.X.54', contents of a file so inscribed.<br><br>Manuscript experimental data and theoretical notes.<br><br>4 folders.<br><br>Found in box file [1].  | 1954      |

**Drafts and publications**

- D.160-D.161      Contents of a file inscribed with several dates in 1954      1954-1955  
followed by '& summary'.  
  
Manuscript experimental data.  
  
2 folders.  
  
Found in box file [1].
- D.162-D.164      Manuscript experimental data.      1954  
  
Found loose in box file [1].  
  
3 folders.
- D.165      Proof of the paper with manuscript revisions.  
  
Found in box file [2].
- D.166-D.167      Miscellaneous papers including a few pages of a rough      c.1954  
manuscript draft, data, graph tracings and material for  
figures.  
  
Found in box file [1].  
  
2 folders.
- D.168      'Movements of labelled calcium in squid giant axons',      1957  
with R.D. Keynes, *Journal of Physiology* 138, 1957.  
  
Proof with manuscript revisions.  
  
Found in box file [2].
- D.169      Manuscript pages of data and notes or drafts.  
  
Found loose in box file [2].

**Drafts and publications**

D.170-D.176	Photographs, contents of an envelope inscribed 'Microinjection photographs Plymouth 1954'.  The photographs were contained in further small envelopes, the inscriptions on which are reproduced below.	1954
D.170	'Microinjection 23.ix.53. Axon 1: injection of aniline blue, photographed h.p.'	1953
D.171	'Microinjection 23.ix Eosin into Axon 2 h.p. (2nd series of prints)'.	1953
D.172	'Microinjection 23.ix.53 Reel 2: injected with methylene blue photographed h.p.'	1953
D.173	'Microinjection 25.ix.53 Axon 3 injected with methylene blue: photographed l.p.'	1953
D.174	'Microinjection. Low power pictures: 2nd lot of prints'.	1953 or 1954
D.175	'Microinjection of the blue'.	1953
D.176	Loose photographs.	
D.177	Figures.	
D.178-D.192	'-P. [ $\mu$ ] injection partial inhibition. Caldwell, Hodgkin, Keynes, Shaw. Diffusion calcm', contents of a box file so inscribed.	1958-1964

**Drafts and publications**

- D.178                    'The link between metabolism and ionic movements in giant nerve fibres. An account of recent experiments by P.C. Caldwell, R.D. Keynes, T.I. Shaw and the author', *Abstr. Symp. XXI International Physiological Congress, Buenos Aires, 1959.*
- 12pp typescript draft with manuscript revisions.
- D.179                    'Injections of compounds containing 'energy-rich' phosphate bonds into giant nerve fibres', with P.C. Caldwell and T.I. Shaw, *Journal of Physiology* 147, 1959.                    1958
- Three pages of an incomplete typescript draft with manuscript revisions; correspondence (1958) chiefly *re* the paper and related research, found with the draft.
- D.180                    Various manuscript notes and draft pages etc.
- Found with the draft and correspondence in D.179.
- D.181                    'The effects of injecting 'energy-rich' phosphate compounds on the active transport of ions in the giant axons of *Loligo*', with P.C. Caldwell, R.D. Keynes and T.I. Shaw, *Journal of Physiology* 152, 1960.
- Proof with manuscript revisions and manuscript draft of abstract.
- D.182                    'Partial inhibition of the active transport of cations in the giant axons of *Loligo*', with P.C. Caldwell, R.D. Keynes and T.I. Shaw, *Journal of Physiology* 152, 1960.                    1960
- Incomplete typescript draft with manuscript revisions and inserts; proof with manuscript revisions; brief correspondence *re* the proof, 1960.
- D.183-D.184            '1958 injection', contents of a file so inscribed.
- The following correspondence and papers relate to some, or all, of the publications described in D.178-D.182.
- D.183                    Correspondence with P.C. Caldwell *re* preparation of manuscripts for publication and related research.                    1959-1960

**Drafts and publications**

- |             |   |             |
|-------------|---|-------------|
| D.184       | Manuscript data for use in publications.  | c.1958-1959 |
| D.185-D.186 | Photographs and letter to Hodgkin from T.I. Shaw (1960).<br><br>Contents of a file inscribed 'Photographs of chromatograms (1959)'.<br><br>2 folders.   | 1959-1960   |
| D.187-D.188 | 'The rate of formation and turnover of phosphorus compounds in squid giant axons', with P.C. Caldwell, R.D. Keynes and T.I. Shaw, <i>Journal of Physiology</i> 171, 1964.   |             |
| D.187       | 17pp typescript draft with manuscript revisions in P.C. Caldwell's hand; manuscript theoretical notes; draft letter (undated) from Hodgkin to Caldwell.<br><br>The title of the draft is 'Studies on the rate of formation and turnover of phosphorus compounds in squid giant axons'.<br><br>Contents of a file. |             |
| D.188       | Letters (1964) to Hodgkin from P.C. Caldwell <i>re</i> preparation of the manuscript; manuscript theoretical notes and calculations.  | 1964        |
| D.189       | 'The effect of metabolic inhibitors on the fluxes of sodium and potassium in the giant axons of <i>loligo</i> '.<br><br>Typescript draft of the [?abstract] of the paper.<br><br>No evidence of publication.  |             |
| D.190-D.191 | Manuscript data, figures etc relating to some of the publications described in D.178-D.189.<br><br>The material could not be identified as relating to a particular publication or publications.  |             |



**Drafts and publications**

- |             |   |             |
|-------------|---|-------------|
| D.198       | Correspondence <i>re</i> preparation of the manuscript.   | 1959        |
| D.199       | Incomplete (untitled) typescript draft with manuscript revisions; a few pages of data.  |             |
| D.200-D.202 | Incomplete manuscript draft (D.202); manuscript data and notes <i>re</i> the paper.<br><br>Contents of an unmarked file.<br><br>3 folders.  | 1958-1959   |
| D.203       | Miscellaneous data and notes apparently relating to this paper.<br><br>Contents of an unmarked file.  | 1956-c.1959 |
| D.204-D.205 | Manuscript data and notes etc probably relating to one of the papers described in D.193-D.203.<br><br>Some papers in the hand of P. Horowicz. Included at D.204 are a few drafts of related letters (1957, undated) by Hodgkin.<br><br>Contents of a file inscribed 'Tracer data'.<br><br>2 folders.    | 1957        |
| D.206-D.207 | Data, mostly manuscript, for figures etc.<br><br>2 folders.   | c.1957-1959 |
| D.207A      | 'The effect of sudden changes in ionic concentration on the membrane potential of single muscle fibres', with P. Horowicz, <i>Journal of Physiology</i> 153, 1960.<br><br>21pp typescript draft, with manuscript corrections, and figure legends; draft (undated) of a letter from Hodgkin to Horowicz. | c.1960      |

**Drafts and publications**

- D.208-D.221 'Perfusion. 1961-2. Baker Hodgkin Shaw 1962', 1961-c.1962  
contents of a box file so inscribed.
- D.208-D.210 'Replacement of the axoplasm of giant nerve fibres with  
artificial solutions', with P.F. Baker and T.I. Shaw, *Journal  
of Physiology* 164, 1962.
- D.208 'Replacement of axoplasm. Top copy 1st draft', contents  
of a file so inscribed.
- Manuscript and typescript draft pages (found in a  
disarranged state and not *re*-arranged.
- Some pages in an unidentified hand.
- D.209 45pp typescript draft with manuscript revisions.
- D.210 Proof with manuscript revisions.
- D.211-D.212 'The effects of changes in internal ionic concentrations on  
the electrical properties of perfused giant axons', with  
P.F. Baker and T.I. Shaw, *Journal of Physiology* 164,  
1962.
- D.211 23pp typescript draft, with manuscript revisions, and draft  
tables.
- D.212 Proof with manuscript revisions.
- D.213 'Replacement of the protoplasm of a giant nerve fibre  
with artificial solutions', with P.F. Baker and T.I. Shaw,  
*Nature* 190, 1961.
- Proof with manuscript revisions and related letter (1961).

**Drafts and publications**

- D.214-D.216      'Perfusion. Measurement', contents of a file so inscribed.      1961-c.1962  
  
Chiefly manuscript experimental data and notes. An incomplete (untitled) manuscript draft is at D.216.  
  
3 folders.
- D.217      'Perfusion data', contents of a file so inscribed.      1961  
  
Manuscript experimental data.
- D.218      'Perfusion', contents of a file so inscribed.      1961  
  
Manuscript experimental data.
- D.219      '19.12.61. 4 & 6', contents of a file so inscribed.      1961  
  
Manuscript experimental data.
- D.220      '19 & 20.12.61. For print', contents of a file so inscribed.      1961  
  
Manuscript experimental data.
- D.221      Miscellaneous manuscript data, notes and figures relating to one or more of the papers D.208-D.213.      c.1961-1962
- D.222-D.238      'Squid ~P injection. 1958-1959 data', contents of a file so inscribed.      1962-c.1964
- D.222      'Internal potassium concentration and the action potential of giant axons of *Loligo*', with P.F. Baker and H. Meves, *Journal of Physiology* 167, 1963.  
  
2 pages of a manuscript draft; typescript draft with manuscript revisions in an unidentified hand.
- D.223-D.228      'The effect of diluting the internal solution on the electrical properties of a perfused giant axon', with P.F. Baker and H. Meves, *Journal of Physiology* 170, 1964.



**Drafts and publications**

- D.233 'Perfusion paper', contents of a file so inscribed. 1962  
Manuscript experimental data and notes in the hand of [?H. Meves]; draft letter from Hodgkin to Meves [?1962].
- D.234 'Resting potential', contents of a file so inscribed. c.1962  
Manuscript experimental data chiefly in the hand of [?H. Meves].
- D.235 'Index', contents of a file so inscribed. c.1962  
Manuscript notes *re* experiments in the hand of [?H. Meves].
- D.236 'Figures', contents of a file so inscribed. c.1962  
Manuscript notes *re* figures etc.
- D.237 Letter to Hodgkin from H. Meves enclosing a manuscript of a paper (in German) by the latter, with Hodgkin's reply. 1963
- D.238 Miscellaneous papers.
- D.239-D.255 Contents of two box files inscribed respectively 1962-1964  
'Limulus MSS figures. Some expts' [1]  
'1959 Misc. EDSAC & vision & reprints' [2].  
These boxfiles have been listed together because most of their contents relate to Hodgkin's paper with M.G.F. Fuortes described in D.239-D.249. They are referred to as [1] and [2] for convenience.  
The collaboration between Hodgkin and Fuortes on *limulus* took place at The Marine Biological Laboratory, Woods Hole, Massachusetts, in the summer of 1962, during Hodgkin's visit to the USA.

**Drafts and publications**

- D.239-D.249      'Changes in time scale and sensitivity in *Limulus ommatidia*', with M.G.F. Fuortes, *Docum. Ophthalmol. XVIII*, 1964.  
  
See C.242-C.263 for related material.
- D.239              Incomplete (untitled) manuscript draft; manuscript draft entitled 'The effect of adaptation to light on the generator potentials in the ommatidia of *Limulus*' (alternative title of the paper).  
  
Found in box file [2].
- D.240              Correspondence between Hodgkin and Fuortes              March-  
concerning preparations for, and immediately arising      August 1962  
from, their joint research.  
  
Included are related pages of manuscript experimental data.  
  
Found in box file [2].
- D.241              Early typescript and manuscript draft with manuscript revisions; typescript draft with manuscript revisions.  
  
Found in box file [1].
- D.242              Typescript draft with manuscript revisions; later 25pp typescript draft with further manuscript revisions; a few manuscript and typescript pages from other drafts.  
  
Contents of an unmarked file.  
  
Found in box file [1].
- D.243-D.244      Correspondence *re* preparation of the manuscript.              1963-1964  
  
Mostly 1963.  
  
2 folders.  
  
Found in box file [1].

**Drafts and publications**

- D.245 Further correspondence, notes and data *re* the paper. 1963-1964  
Contents of a file inscribed 'Letters and information from Mike Fuortes'.  
Found in box file [2].
- D.246 Manuscript and typescript experimental data, with letter from Fuortes (1963). 1963  
Found in box file [1].
- D.247-D.248 Material for figures.  
2 folders.  
Found in box file [1].
- D.249 Manuscript data for the paper.  
Contents of a file.
- D.250 'The relation between stimulus and response in a photoreceptor: an attempt at a quantitative description'. 1963  
10pp manuscript draft of a paper (Hodgkin and Fuortes). On the first page is the following note: 'First draft of Theory paper which will not be published in this form'. Also inscribed is the date 'March 1963'.  
Found in box file [2].
- D.251 'August 1st 1960', contents of a file so inscribed. 1960  
Manuscript experimental data.
- D.252 'August 3 1960', contents of a file so inscribed. 1960  
Manuscript experimental data.

**Drafts and publications**

- |             |   |           |
|-------------|---|-----------|
| D.253       | 'DeVoe. Tracings etc'.<br><br>Manuscript experimental data and brief related correspondence (1962).   | 1962      |
| D.254       | 'Rushton. Vision', contents of a file so inscribed.<br><br>Manuscript theoretical notes.  |           |
| D.255       | 'Amsterdam meeting 1963. Paper with M.G.F Fuortes', contents of a file so inscribed.<br><br>4pp typescript entitled 'Changes in time scale and sensitivity in <i>Limulus ommatidia</i> '; proof with manuscript corrections; letter <i>re</i> publication (1963).   | 1963      |
| D.256-D.263 | 'Weidman paper with Chandler shifts anion paper', contents of a box file so inscribed.  | 1964-1965 |
| D.256       | 'The effect of internal sodium on the action potential in the presence of different internal anions', with W.K. Chandler, <i>Journal of Physiology</i> 181, 1965.<br><br>34pp typescript draft with manuscript revisions; proof with manuscript corrections.  |           |
| D.257       | 'Effect of changes in ionic strength on inactivation and threshold in perfused nerve fibres of <i>Loligo</i> (abstract)'. Publication details unknown.<br><br>3pp typescript draft so entitled (the names of co-authors W.K. Chandler and H. Meves have been crossed out); shortened typescript version; manuscript data and calculations; letter from H. Meves (1964).<br><br>Contents of a file inscribed 'Chandler Hodgkin & Meves. Theory'. | c.1964    |
| D.258       | 'Plymouth 1964 data', contents of a file so inscribed.<br><br>Manuscript experimental data.   | 1964      |

**Drafts and publications**

- D.259-D.262 'Weidmann paper', contents of a file so inscribed.
- This material relates to the paper 'The diffusion of radio-potassium across intercalated discs of mammalian cardiac muscle', by S. Weidmann, *Journal of Physiology* 187, 1966. Hodgkin wrote the appendix.
- D.259 Typescript draft of the paper.
- A few pages have annotations in Hodgkin's hand.
- D.260 Correspondence between Hodgkin and Weidmann (1965); manuscript drafts by Hodgkin of [?appendix]. 1965
- D.261-D.262 Theoretical notes in Hodgkin's hand; figures and notes by Weidmann. 1965
- 2 folders.
- D.263 A few pages of an unidentified manuscript draft and manuscript data. All in Hodgkin's hand.
- Found loose in the box file.
- D.264-D.290 'Chandler', contents of a box so inscribed. 1966-c.1972
- D.264 'Voltage clamp experiments in skeletal muscle fibres', with R.H. Adrian and W.K. Chandler, *Journal of Physiology* 186, 1966. 1966
- 'Adrian Chandler Hodgkin Voltage Clamp I - Action potentials for reprod'n', contents of a file so inscribed.
- 1p manuscript draft with manuscript data and figures.
- D.265-D.269 'Point control of membrane potential in muscle', with R.H. Adrian and W.K. Chandler. Publication details unknown.
- D.265 25pp manuscript draft (with the above title) with figure legends etc; manuscript theoretical notes.

**Drafts and publications**

- D.266-D.268      'Muscle MS & calculations', contents of a file so inscribed.
- Chiefly manuscript theoretical notes, with an incomplete and untitled manuscript draft of the paper (D.266).
- 3 folders.
- D.269              Typescript draft with manuscript revisions.
- D.270              'The kinetics of mechanical activation in frog muscle', with R.H. Adrian and W.K. Chandler, *Journal of Physiology* 204, 1969.      1968-1969
- Incomplete typescript draft, with manuscript revisions and inserts, and figures etc; later 18pp typescript draft; correspondence with Chandler (1969); a few manuscript notes.
- D.271-D.274      'Voltage clamp experiments in striated muscle fibres', with R.H. Adrian and W.K. Chandler, *Journal of Physiology* 208, 1970.
- See C.370-C.371 for related papers.
- D.271              Typescript draft with manuscript revisions.
- D.272              Revised 23pp typescript.
- D.273              Manuscript and typescript drafts of tables, figure legends and other parts of the paper.
- D.274              Proof with manuscript revisions.
- Included is a copy of a letter by Hodgkin (1970) and a few manuscript notes.

**Drafts and publications**

- D.275-D.279 'Slow changes in potassium permeability in skeletal muscle', with R.H. Adrian and W.K. Chandler, *Journal of Physiology* 208, 1970.
- D.275 20pp manuscript draft; parts of an earlier manuscript draft (or drafts).
- D.276 Typescript draft, with drafts of figure legends.
- D.277-D.278 Manuscript data for the paper with further manuscript draft pages in D.278.  
  
2 folders.  
  
Contents of a file inscribed 'Slow changes'.
- D.279 Proof with manuscript revisions.
- D.280-D.281 'An extension of Cole's Theorem and its application to muscle', with R.H. Adrian and W.K. Chandler, pp. 299-309 in *Perspectives in Membrane Biophysics*, ed. D.P. Agin, London 1972.
- D.280 Manuscript and typescript draft; revised 9pp manuscript draft; data etc for figures.
- D.281 Photocopy of a typescript draft.
- D.282 Miscellaneous fragments (typescript and manuscript) of drafts for the papers described in D.271-D.281.  
  
Contents of an unmarked file.

**Drafts and publications**

- D.283-D.286      Correspondence between Hodgkin and W.K. Chandler concerning some, or all, the papers described in D.264-D.282.      1969
- Included are a few letters from Chandler to R.H. Adrian.
- 4 folders.
- D.287-D.288      Manuscript data and notes relating to one, possibly more, of the papers described in D.264-D.282.
- Chiefly in a hand other than Hodgkin's.
- 2 folders.
- D.289      Manuscript drafts of figure legends for one or more of the papers described in D.264-D.282.
- Contents of an unmarked file.
- D.290      Fragments of manuscript drafts, manuscript notes and data relating to some of the papers described in D.264-D.282.
- D.291-D.303      'Misc 1970-71. Ca in flux data 1968. Nakajima & H drafts', contents of a box file so inscribed.      1965-c.1972
- D.291-D.292      'The effect of sodium concentration on calcium movements in giant axons of *Loligo forbesi*', with P.F. Baker, M.P. Blaustein and R.A. Steinhardt, *Journal of Physiology* 192, 1967.
- D.291      3 manuscript drafts, one headed 'rough'.
- D.292      Manuscript data and notes.
- D.293-D.294      'The effect of diameter on the electrical constants of frog skeletal muscle fibres', with S. Nakajima, *Nature* 227, 1970.

**Drafts and publications**

- D.293                    7pp manuscript draft; typescript draft with letter from Hodgkin to Nakajima (1970); proof with manuscript revisions.
- D.294                    28pp typescript draft, with manuscript revisions, and figures. A few manuscript notes and a letter from Nakajima (1971) are included.
- This draft has the same title as those in D.293 but varies greatly in text and length.
- D.295                    'The early phase of calcium entry in giant axons of *Loligo*', with P.F. Baker and E.B. Ridgway, *Journal of Physiology* 214, 1971.
- 3pp typescript draft, with manuscript revisions, and figures; off-print.
- D.296                    'Analysis of the membrane capacity in frog muscle', with S. Nakajima, *Journal of Physiology* 221, 1972.
- Two typescript drafts with manuscript revisions, one including tables, figures etc; letter from S. Nakajima (1971); proof with manuscript revisions.
- D.297-D.298            Correspondence between Hodgkin and Nakajima *re* 1970-1971 preparation of the papers.
- Included are a few related letters by others and two typescript drafts (publication details unknown) with the following titles: 'The electrical constants of the frog's muscle fibre' (D.297) and 'Capacitance of the skeletal muscle fibre of the frog' (D.298). Some pages of manuscript data are also included.
- 2 folders.

**Drafts and publications**

- D.299-D.300      'Theory - Ca:Na efflux', contents of a file so inscribed.  
  
14pp unidentified typescript draft entitled 'Ca Influx', with manuscript revisions in an unidentified hand (D.296); manuscript data, notes and calculations chiefly in Hodgkin's hand.  
  
2 folders.
- D.301              'Image form cal'cn', contents of a file so inscribed.  
  
Manuscript equations and calculations.
- D.302              'Rectification models', contents of a file so inscribed.      1965-1966  
  
Manuscript notes and experimental data.
- D.303              Miscellaneous manuscript notes and data with a few      1966-c.1970  
pages of an unidentified typescript draft.
- D.304-D.306      'Nerve theory 1966-1977. Opt. no. sites. Ca45 squid.      1966-1967  
Diffusion theory. AFH Laplace soln', contents of a box  
file so inscribed.
- D.304              'Plymouth 1966-7. Ca45 calculations'.      1966  
  
Manuscript calculations, some in an unidentified hand.
- D.305              'Ca flux theory', contents of a file so inscribed.  
  
Manuscript theoretical notes.
- D.306              Contents of a file inscribed 'Jaffé'.  
  
Manuscript theoretical notes, some in an unidentified  
hand.

**Drafts and publications**

- D.307-D.314 'Aequorin paper. Diffusion calc'n. Radial diffusion. Radial electrical spread 1971-2', contents of a file so inscribed. c.1971-1972
- The material, or most of it, probably relates chiefly to one or more of the three papers by Hodgkin, P.F. Baker and E.B. Ridgway on calcium entry in squid axons, published in the *Journal of Physiology*, 1970-1971 (listed as no.s 99, 101, 102 in *Biographical Memoirs of Fellows of the Royal Society* vol.46).
- D.307-D.308 'Ridge Aequorin MS. Methods', contents of a file so inscribed.
- Parts of a draft or drafts, mostly manuscript, with manuscript notes (some in an unidentified hand).
- 2 folders.
- D.309 'Cc aequorin. Misc calculations', contents of a file so inscribed'.
- Brief manuscript theoretical notes; letter (undated) from R.H. Adrian to Hodgkin *re* computation of data.
- D.310 'Subtangent correction. Aequorin kinetics. Blinks et al', contents of a file so inscribed.
- Brief theoretical notes.
- D.311 'RHA Radiation boundary condition etc', contents of a file so inscribed.
- Letter (undated) to Hodgkin from R.H. Adrian, with theoretical notes by the latter enclosed.
- D.312 'Appendix. RHA computations', contents of a file so inscribed.
- Manuscript data etc; letter (undated) from R.H. Adrian to Hodgkin.

**Drafts and publications**

- D.313 'Aequorin. Appendix & computations', contents of a file so inscribed.  
  
Typescript draft headed 'Appendix' with manuscript revisions.
- D.314 'Speculation theory', contents of a file so inscribed.  
  
Brief manuscript theoretical notes.
- D.315-D.315B Correspondence and papers relating to publications of 1974. December 1973-1974  
  
This material was found together and appears to relate to three papers by Hodgkin, D.A. Baylor and B.J. Nunn (one without Nunn) on vision of turtles.
- D.315-D.315A Correspondence (November 1973-1974) between Hodgkin and various scientific colleagues *re* the preparation of the papers; manuscript notes in various hands; a few typescript draft pages. 1973-1974  
  
2 folders.  
  
Contents of a file inscribed 'Correspondence - 1974 papers'.
- D.315B Material for figures.  
  
Contents of a file inscribed 'Figs - papers 1-3'.
- D.316-D.323 'Vision. Misc. correspondence & theory. 1970-77', contents of a box file so inscribed. 1970-1977
- D.316-D.317 'Spontaneous voltage fluctuations in retinal cones and bipolar cells', with E.J. Simon and T.D. Lamb, *Nature* 256, 1975.
- D.316 Manuscript draft, possibly incomplete; 4pp typescript draft with manuscript revisions.

**Drafts and publications**

- D.317                    Brief correspondence and various notes etc *re* the paper.  
  
                             Contents of a file inscribed 'Nature'.
- D.318                    'Transmission from photoreceptors to ganglion cells in  
                             turtle retinae', contents of a file so inscribed.  
  
                             Draft (undated) of a personal letter by Hodgkin; 2pp  
                             rough manuscript notes; typescript draft of a paper  
                             entitled, as above, by D.A. Baylor and R. Fettiplace.
- D.319                    Letters to Hodgkin from D.A. Baylor (1975); 2pp                    1975  
                             typescript notes by Hodgkin on the manuscript by Baylor  
                             and Fettiplace (see D.318).
- D.320                    'Baylor & Fettiplace 2', contents of a file so inscribed.                    1976  
  
                             Letter (1976) to Hodgkin from D.A. Baylor; typescript draft  
                             of a paper headed 'Paper 2'; brief manuscript  
                             calculations.
- D.321                    'Spectra and temperature', contents of a file so inscribed.  
  
                             Manuscript calculations and theoretical notes; letter  
                             (1973) to Hodgkin from an unidentified scientist.
- D.322                    'Mach bands', contents of a file so inscribed.  
  
                             Manuscript theoretical notes.
- D.323                    Miscellaneous manuscript theoretical notes etc.
- D.324-D.336A           'ERP 1975-1977. With Paul O'Bryan', contents of a box  
                             file so inscribed.

**Drafts and publications**

- D.324-D.325      'The optimum density of sodium channels in an unmyelinated nerve', *Phil. Trans. Roy. Soc. B* 270, 1975.  
  
This published paper was delivered at a Royal Society meeting.
- D.324              7pp manuscript draft of the oral paper, with further draft pages, manuscript notes and figures; letter to Hodgkin from R.H. Adrian (1974).  
  
Contents of an unmarked file.
- D.325              Two typescript drafts [?one of the published version], with manuscript revisions, and letter from Hodgkin to A.F. Huxley (1974); a few pages of manuscript notes etc.
- D.326-D.335      'Internal recording of the early receptor potential in turtle cones', with P.M. O'Bryan, *Journal of Physiology* 267, 1977.      1975-1977
- D.326-D.327      'ERP paper - notes & MS', contents of a file so inscribed.
- D.326              Manuscript draft, with manuscript notes.
- D.327              24pp typescript draft with manuscript revisions.
- D.328              'Notes for MS - ERP', contents of a file so inscribed.  
  
Manuscript draft tables for the paper with one page of manuscript draft text; data.
- D.329              'ERG [sic] paper with Paul O'Bryan', contents of a file so inscribed.      1975-1976  
  
Manuscript notes on the paper (chiefly comments) in various hands; letter to Hodgkin from O'Bryan (1976).

**Drafts and publications**

- D.330 'ERP rough check and final checks', contents of a file so inscribed.  
  
Manuscript theoretical notes.
- D.331 Correspondence with O'Bryan and other scientists *re* the preparation of the paper, (1975-1977), with manuscript notes. A few pages of a typescript draft and figures are included. 1975-1977
- D.332 Manuscript drafts of figure legends; a few manuscript draft pages; data and calculations.
- D.333 Brief correspondence (1975) *re* the paper; material relating to figures; data.  
  
Contents of an unmarked file.
- D.334-D.335 'Absorption of light by cones 1975', contents of a file so inscribed.  
  
Manuscript theoretical notes, probably relating to the paper.  
  
2 folders.
- D.336 'Gating currents. Foot of AP', contents of a file so inscribed.  
  
Manuscript theoretical notes, probably relating to one of the two papers described in D.324-D.335.
- D.336A 'The early years of Anglo-American co-operation in science', *Interdisciplinary Science Reviews* 1, 1976.  
  
28pp typescript; corrected proof; correspondence *re* publication, 1975-1976.
- D.337-D.344 'A surprising property of electrical spread in the network of rods in the turtle's retina', with P.B. Detwiler and P.A. McNaughton, *Nature* 274, 1978. 1977-1978

**Drafts and publications**

- D.337                      Untitled manuscript draft (or parts of different drafts);  
10pp typescript draft with manuscript revisions;  
manuscript notes etc.  
  
                              Contents of a file inscribed with the title of the paper.
- D.338-D.339              3 typescript drafts with revisions; correspondence              1978  
between the authors.  
  
                              2 folders.
- D.340                      Further correspondence between authors etc.                      1978  
  
                              Contents of a file inscribed 'Proofs - Nature'.
- D.341-D.344              Manuscript data, notes and figures etc.  
  
                              Included at D.342 is a letter from Hodgkin to Detwiler  
(1977); and at D.343 a letter from Detwiler to Hodgkin  
(1978).  
  
                              4 folders.
- D.345-D.346              Contents of a file inscribed 'Rod paper 2'.                      c.1978  
  
                              Various manuscript drafts entitled 'The desensitization of  
turtle rods by light'; manuscript notes and data.  
  
                              This paper appears to have been the follow-up to the one  
described in D.337-D.344. No evidence for its publication  
was found.  
  
                              2 folders.
- D.347-D.359              'Electrical coupling between cones in turtle retina', with              1976-1979,  
P.B. Detwiler, *Journal of Physiology* 291, 1979.              nd  
  
                              Contents of a box file inscribed '1977-9. Detwiler and  
Hodgkin - Cone coupling. Data, theory and  
correspondence. Lamb's computer tables'.

**Drafts and publications**

- D.347                    28pp manuscript draft; related letter from Hodgkin to Detwiler (1978); typescript draft with manuscript revisions.                    1978
- D.348                    'Rejected parts of cone MS', contents of a file so inscribed.  
  
Letters from Detwiler to Hodgkin (1978); typescript draft of part of the paper, with figures.
- D.349                    Draft figure legends etc.
- D.350                    'Peter Detwiler's data', contents of a file so inscribed.                    1976-1977  
  
Letters (1977) from Detwiler to Hodgkin *re* the paper; manuscript experimental data in Detwiler's hand.
- D.351                    Letter from Detwiler to Hodgkin (1977), with manuscript analyses of experimental data in the former's hand.                    1976-1977
- D.352                    'Cone theory', contents of a file so inscribed.                    c.1976  
  
Manuscript data and calculations, chiefly in Detwiler's hand.
- D.353                    'Gaussian', contents of a file so inscribed.  
  
Brief data and notes.
- D.354                    'Hexagonal grid time course (analytical) & distributes', contents of a file so inscribed.  
  
Manuscript theoretical notes.
- D.355                    'TDL & ALH. Rise of potential', contents of a file so inscribed.  
  
Manuscript data and notes, some in Hodgkin's hand.

**Drafts and publications**

- D.356 'Equations in cone paper', contents of a file so inscribed.  
Manuscript theoretical notes.
- D.357-D.358 Miscellaneous manuscript theoretical notes.  
Included at D.358 is a letter to Hodgkin from P. McNaughton (undated).  
2 folders.
- D.359 Correspondence etc *re* refereeing of the paper; papers *re* 1978, nd  
grant application for the research.
- D.360-D.370 'Detwiler, Hodgkin. McNaughton Rod MS 1 & bipolar 1978-c.1984  
note', contents of a box file so inscribed.
- D.360-D.368 'Temporal and spatial characteristics of the voltage  
response of rods in the retina of the snapping turtle', with  
P.B. Detwiler and P.A. McNaughton, *Journal of  
Physiology* 300, 1980.
- D.360 20pp manuscript draft, with manuscript calculations.
- D.361 Typescript and manuscript draft with manuscript  
revisions.
- D.362-D.363 Manuscript and typescript parts of a further draft, or  
drafts, with figure legends, notes etc.  
Some notes etc in [?P. McNaughton's] hand.  
Contents of an unmarked file.  
2 folders.

**Drafts and publications**

- D.364-D.365      Brief correspondence between the authors and others (1979-1980); later typescript draft with manuscript revisions; manuscript and typescript comments on the paper in various hands; photocopy of proof with manuscript revisions.  
  
2 folders.
- D.366              'P.McN misc. theory', contents of a file so inscribed.  
  
Photocopies of papers in the hand of P. McNaughton: letter to P.B. Detwiler (1978), a draft of a talk and theoretical notes.
- D.367              'Peter McN. Maths of arrays', contents of a file so inscribed.  
  
Photocopies of theoretical notes in McNaughton's hand.
- D.368              Miscellaneous material, chiefly *re* figures and tables.
- D.369-D.370      'A note on the synaptic events in hyperpolarising bipolar cells of the turtle's retina', with P.B. Detwiler and T.D. Lamb, in *Photoreceptors*, ed. A. Borsellino & L. Cervetto, London 1984.      1980-c.1984
- D.369              Incomplete manuscript and typescript drafts; brief correspondence between Hodgkin and P.B. Detwiler (1980); material for figures and tables.
- D.370              14pp typescript draft with manuscript revisions; revised version; brief scientific correspondence (1982).
- D.371-D.372      'Effect of ions on the light-sensitive current in retinal rods', with P.A. McNaughton and K.-W. Yau, *Nature* 292, 1981.      1981
- D.371              Two typescript drafts with manuscript revisions; 11pp typescript, inscribed 'top copy', with figure legends.

**Drafts and publications**

- D.372 Correspondence *re* publication (1981); manuscript and typescript notes *re* 'Trevor Lamb's comments' on the paper; corrected proof.
- D.373 'Some recollections of William Rushton and his contributions to neurophysiology (1925-52)', *Vision Research* 22, 1982. 1981  
Correspondence *re* publication with photocopied typescript of the article.
- D.374-D.378 'Effect of ions on retinal rods from *Bufo marinus*', with P.A. McNaughton, B.J. Nunn and K.-W. Yau, *Journal of Physiology* 350, 1984. 1983-1984
- D.374 36pp typescript draft, with manuscript revisions and inserts, and figure legends.
- D.375 Two further typescript drafts (one incomplete).
- D.376-D.377 Manuscript comments by various individuals and correspondence *re* the preparation of the paper. 1983  
2 folders.
- D.378 Correspondence *re* preparation of the manuscript, with photocopy of corrected proof.
- D.378A 'The effect of light adaptation on the response of the light-sensitive current of toad rods to changes of Ca and Na', *Journal of Physiology* 351, 1984.  
1p typescript draft with copy of corrected proof; 1p manuscript experimental data (in a hand other than Hodgkin's).

**Drafts and publications**

- D.379 'Rapid change of solutions bathing a toad rod outer segment', with R.H. Cook, P.A. McNaughton and B.J. Nunn, *Journal of Physiology* 357, 1984.  
1p typescript draft.
- D.380 'Comparisons between the effects of flashes of light and brief pulses of calcium on the current of toad and salamander rods', with P.A. McNaughton and B.J. Nunn, *Journal of Physiology* 357, 1984.  
Photocopy of 1p manuscript draft; typescript with figure.
- D.381-D.385 'Activation MS', contents of 2 files so inscribed. 1984  
'Activation of the light-sensitive current in toad and salamander rods by changes in external calcium and sodium', with P.A. McNaughton, B.J. Nunn and K.-W. Yau. No evidence of eventual publication found.
- D.381-D.383 Various manuscript and typescript drafts (one entitled as above, the others with very similar titles), two dated July, August 1984; manuscript and typescript notes on the paper. The manuscript draft pages are not in Hodgkin's hand.  
3 folders.
- D.384 Correspondence between the authors. 1984
- D.385 Drafts of figure legends, with a few pages of a further typescript draft.
- D.386-D.391 'Mode of action of Ca and Na', contents of 2 files so inscribed. 1983-c.1984  
Material relating to various papers on toad and salamander rods (c.1984) which appear to be closely related to the paper described in D.381-D.385. Those whose authorship is given are by the same authors. The drafts described below may have been combined into one paper. No evidence of eventual publication for any has been found.

**Drafts and publications**

- D.386 'Two components of light-sensitive current in the rods of toads and salamanders', with P.A. McNaughton, B.J. Nunn and K.-W. Yau.  
  
Photocopy of a 4pp manuscript draft so entitled; typescript revised version.
- D.387 'The mode of action of calcium and sodium on light-sensitive currents in toad rods', authors as in D.386.  
  
2 typescript drafts so entitled, one also inscribed 'Part 1'; manuscript draft of introductory pages.
- D.388 'The rapid effects of varying external calcium and sodium on light-sensitive currents in toad rods'.  
  
3pp manuscript draft (possibly incomplete) so entitled. The authors' names are not given.
- D.389 'Activation of light-sensitive current by decreasing Ca<sup>0</sup> or increasing Na<sup>0</sup>: experiments in low calcium'.  
  
3pp manuscript draft (possibly incomplete) so entitled. Much of the text is almost identical to parts of the draft in D.388.
- D.390 'Skeleton of new 1 $\mu$  - Ca paper', contents of an internal file so inscribed.  
  
Figures and manuscript notes.
- D.391 'March 1983 Figures from Brian's folders', contents of an internal file so inscribed.  
  
Manuscript draft figure legends and experimental notes (in an unidentified hand).
- D.392-D.401 'The ionic selectivity and calcium dependence of the light-sensitive pathway in toad rods', with P.A. McNaughton and B.J. Nunn, *Journal of Physiology* 358, 1985. 1982-c.1985

**Drafts and publications**

- D.392-D.394      Various incomplete manuscript drafts chiefly in Hodgkin's hand; manuscript notes, data and figures.  
  
3 folders.
- D.395      Typescript draft, with manuscript revisions, and manuscript tables.
- D.396      Typescript draft with manuscript revisions; manuscript notes on the paper in an unidentified hand (April 1984).
- D.397      30pp typescript draft.
- D.398      Further typescript draft dated '6 Aug. '84'.
- D.399-D.400      Correspondence chiefly *re* publication.      1982-1984  
  
Almost all 1984.  
  
Included are a referee's report, manuscript notes on the paper by various individuals and a copy of a corrected proof.  
  
2 folders.
- D.401      Miscellaneous scientific correspondence etc *re* matters connected with the topics covered by the paper.      1983-1984
- D.402      'Oscillations paper', contents of a file so inscribed.      1984-c.1987  
  
No publication details for this paper could be found.  
  
Rough manuscript draft entitled 'Damped oscillations in retinal rods from salamander', with P.A. McNaughton and the late B.J. Nunn; manuscript experimental data and notes.

### Drafts and publications

- D.403 'Figures & legends for oscillatory paper, 1984-87', contents of a file so inscribed.
- This material possibly relates to the same paper as that in D.402.
- Material for figures, including manuscript draft legends.
- D.404 'Measurement of sodium-calcium exchange in salamander rods', with P.A. McNaughton and B.J. Nunn, *Journal of Physiology* 391, 1987.
- 51pp typescript with figures; photocopy of corrected proof.
- D.405-D.407 'The effect of ions on sodium-calcium exchange in salamander rods', with B.J. Nunn, *Journal of Physiology* 191, 1987.
- D.405-D.406 Manuscript draft, with manuscript notes and a few pages of a typescript draft intercalated. Some pages appear to be disarranged.
- 2 folders.
- D.407 54pp typescript draft with figures etc; photocopy of corrected proof.
- D.408 Correspondence *re* publication of the two papers described in D.404-D.407. 1986-1987
- D.409-D.414 'Ca pumping'.
- The following files were found together and appear to relate to a manuscript on 'Ca pumping', c.1986-1987. No publication details were found. The material possibly relates to one or both of the papers in D.404-D.407.

**Drafts and publications**

- D.409 'Ca pumping MS. First draft 24 Feb 1986', contents of a file so inscribed.
- Manuscript draft entitled 'The sodium-calcium exchange mechanism in salamander'; a few pages of a typescript draft.
- D.410-D.411 'Ca pumping. Theory file 3. 2 buffers etc. 1986', contents of a file so inscribed.
- Manuscript theoretical notes and data.
- 2 folders.
- D.412 'Ca pumping. Theory section', contents of a file so inscribed.
- Manuscript draft and data.
- D.413 'Draft 0. Discussion theory Ca pumping. 24 Feb. 86', contents of a file so inscribed.
- 14pp typescript revised draft of the manuscript draft in D.411, with further manuscript revisions. Figures are included.
- D.414 'Ca pulses on response. Notes for MS. June 1987', contents of a file so inscribed.
- Material for figures.
- D.415 'Control of light-sensitive current in salamander rods', with the late B.J. Nunn, *Journal of Physiology* 403, 1988.
- Photocopy of typescript draft with manuscript revisions and inserts.
- D.416-D.431 Various files, the contents of which could not be definitely identified with known publications. c.1953-1985, nd
- Titles of the files are given below.

**Drafts and publications**

- |             |   |             |
|-------------|---|-------------|
| D.416       | 'Diffusion'.<br>Manuscript theoretical notes.   | c.1953      |
| D.417       | 'Laplace solns'.<br>Manuscript theoretical notes, some in Hodgkin's hand.   | c.1960-1965 |
| D.418-D.419 | 'E.N. Fox. Calculations. Diffusion & chemical reaction'.<br>Manuscript data and notes, chiefly in Hodgkin's hand.<br>2 folders.   | c.1967      |
| D.420       | 'Emission of photons'.<br>File inscribed '1973'.<br>Manuscript data and notes.  | 1973        |
| D.421       | 'Trevor Lamb. Dark adaptation curves'.<br>Typescript draft of a paper by Lamb entitled 'An analysis of human dark adaptation curves'; letter to Hodgkin (1979); brief data. | 1979        |
| D.422       | 'Dark adaptation 3rd draft + diffusion theory'.<br>Manuscript notes, some by Hodgkin, on the paper described in D.421.  | 1979        |
| D.423-D.425 | 'Carrier theory and other theory. Asymmetrics in Na on/off'.<br>Manuscript theoretical notes.<br>3 folders.   | 1981-1985   |

**Drafts and publications**

D.426-D.427	'Diffusion'.  Manuscript theoretical notes.  2 folders.	Nd
D.428	'Paper to neurol [?]'.  Manuscript draft entitled 'Possible applications of electrical technique in biology and medicine'; brief manuscript notes.	Nd
D.429	'Feedback. Circuits. Nakajima clamp'.  Photocopies of manuscript electrical circuit diagrams.	Nd
D.430	'Radial diffusion Ca. Radial cable spread - TTS capacity'.  Manuscript theoretical notes.	Nd
D.431	'Fast Gx MS'.  Part of an untitled manuscript draft; figures and calculations.	Nd
D.432-D.437	Miscellaneous papers relating to publications by Hodgkin (and possibly to publications by others).  Manuscript notes, data, figures etc.	1971-1984, nd
D.432-D.433	1971-1984.  2 folders.	
D.434-D.437	Undated.  4 folders.	

**Drafts and publications**

**D.438-D.463                      EDITORIAL CORRESPONDENCE                      1960-1986**

Inscriptions on files are given below.

D.438                      'Chamber's Encyclopedia'.                      1960

Brief correspondence *re* a request to revise an article on the human nervous system.

D.439-D.440                      'Journal of Physiology'.                      1962-1965

Correspondence chiefly *re* publication of papers by Hodgkin and Hodgkin's refereeing of papers by others.

2 folders.

D.441                      'Encyclopedia Britannica. Chicago, USA'.                      1964, 1969

Correspondence *re* various articles, including a short biography of Hodgkin and a request for a longer article on the nerve impulse.

D.442                      'Encyclopedia Americana'.                      1964-1969

Correspondence *re* a biographical article on A.F. Huxley by Hodgkin, with a typescript draft etc; and *re* a request for an article on 'nervous system conduction'.

D.443                      'Encyclopedia Britannica International Ltd, London'.                      1967-1972

Correspondence chiefly *re* Hodgkin's article 'Nerve Conduction'.

D.444                      'Encyclopedia Japan'.                      1969

Brief correspondence *re* a request to write an article on nervous conduction.

**Drafts and publications**

- |             |   |           |
|-------------|---|-----------|
| D.445       | 'Encyclopedia Britannica. Educational Corporation'.<br><br>Correspondence chiefly <i>re</i> a request for photographs to be included in a film, <i>The Nerve Impulse</i> .  | 1969-1970 |
| D.446-D.447 | Correspondence, with cuttings of press reviews and royalty statements, <i>re</i> publication etc of 'The Pursuit of Nature', <i>Cambridge University Press</i> , 1976.<br><br>Chiefly 1976-1979.<br><br>2 folders.  | 1976-1985 |
| D.448       | 'Bertrand, Fuortes & Pochobradsky [authors of a paper on turtle retina]'.<br><br>Manuscript draft and revised typescript versions of comments by Hodgkin on the paper; comments by another referee; correspondence (1977); typescript of the paper.   | 1977      |
| D.449-D.450 | 'Crawford & Fettiplace [authors of a paper on cochlear hair cells of terrapin]'.<br><br>Correspondence <i>re</i> Hodgkin's assistance in refereeing the paper, with theoretical notes by another; manuscript theoretical notes by Hodgkin; typescript of the paper.<br><br>2 folders.   | 1978      |
| D.451-D.452 | 'ISI - Hodgkin & Huxley'.<br><br>Correspondence with the Institute for Scientific Information (USA) <i>re</i> the inclusion of a commentary on Hodgkin and A.F. Huxley's paper in <i>Journal of Physiology</i> 117 (1952) in the ISI's 'Current Contents', and correspondence arising. Included is correspondence between Hodgkin and Huxley.<br><br>2 folders. | 1978-1985 |

**Drafts and publications**

- |             |   |           |
|-------------|---|-----------|
| D.453       | 'R.D.K[eynes] article'.<br><br>A few letters from Keynes to Hodgkin <i>re</i> a paper by the former on sodium gating in squid axon with G.C. Malachowski and D.F. Van Helden; typescript of the paper.                  | 1979      |
| D.454       | 'Baylor, Matthews & Yau [authors of a paper on 'dark light']'.<br><br>Brief correspondence with Baylor <i>re</i> the paper, including Hodgkin's comments on it; typescript of the paper with further notes by Hodgkin.  | 1979      |
| D.455       | 'Torre and Owen [authors of a paper on toad rods] 1981'.<br><br>Brief correspondence <i>re</i> refereeing with typescript of the paper.   | 1980      |
| D.456       | 'C.U.P. Collection of 1952 papers'.<br><br>Correspondence <i>re</i> plans for the <i>re</i> -publication (by the Physiological Society) of Hodgkin and A.F. Huxley's 1952 papers on the voltage clamp.                  | 1985-1986 |
| D.457       | 'Torre, Matthews & Lamb [authors of a paper on phototransduction in retinal rods]'.<br><br>Hodgkin submitted the paper for publication.<br><br>Correspondence etc <i>re</i> refereeing, with a typescript of the paper. | 1986      |
| D.458-D.463 | Miscellaneous correspondence.<br><br><i>Re</i> publication of some of Hodgkin's papers, requests for contributions, refereeing of papers and other matters.   |           |
| D.458-D.460 | 1961-1973.<br><br>3 folders.  |           |



**SECTION E**                      **LECTURES AND SPEECHES, E.1-E.226**                      **1950-1987,  
nd**

A chronological sequence of papers relating to Hodgkin's public and academic lectures and other speeches and addresses delivered at various occasions. In a number of cases where there was only draft material present in an original file, the details concerning the particular lecture or speech (title, occasion and date) have been provided by inscriptions on the file.

See also Section A, Biographical (A.174- A.187).

- |         |   |      |
|---------|---|------|
| E.1-E.2 | 'Conduction of Nervous Impulse. British Assoc.n 1950', contents of a file so inscribed.   | 1950 |
| E.1     | 14pp untitled manuscript draft.   |      |
| E.2     | 20pp draft (pagination incomplete) consisting of manuscript and typescript pages, with revisions; a few loose typescript pages, apparently from another draft.  |      |
| E.3     | 'Ionic Exchange and Electrical Activity in Nerve and Muscle', XVIII International Physiological Congress, Copenhagen, 15-18 August 1950.<br><br>12pp typescript draft so entitled, with manuscript revisions, and abstract; letter from the American Embassy, London, 1950.<br><br>See J.95 for related material. | 1950 |
| E.4-E.5 | 'Hardy Club 1950. Nerve', contents of a file so inscribed.<br><br>Untitled manuscript draft with further pages of notes and data (some pages possibly out of sequence).<br><br>2 folders.   | 1950 |
| E.6     | 'Cold Spring Harbour [June] 1952. Movements of Na & K during nervous activity', contents of a file so inscribed.<br><br>Cold Spring Harbour symposium on the neuron.<br><br>Untitled 18pp typescript draft with manuscript revisions.   | 1952 |

**Lectures and speeches**

- |           |  |              |
|-----------|--|--------------|
| E.7       | 'R.S. Discussion 1952. Propagation of electric signals along nerve fibres', contents of a file so inscribed.<br><br>Untitled 15pp typescript.  | 1952         |
| E.8       | 'The Conduction of the Nervous Impulse', Newcastle, c.1953.<br><br>19pp typescript draft, so entitled, with manuscript revisions.  | c.1953       |
| E.9       | 'Foster Club 1954. Recovery in Nerve', contents of a file so inscribed.<br><br>Untitled manuscript draft (pagination incomplete).  | 1954         |
| E.10      | 'Berne Nov. 1955', contents of a file so inscribed.<br><br>Untitled 12pp manuscript draft.<br><br>The lecture discusses experiments on changes in the permeability of squid nerve fibres to sodium and potassium ions.   | 1955         |
| E.11      | 'Paris 1955', contents of a file so inscribed.<br><br>Untitled 11p manuscript draft of a lecture, the topic of which is similar to that of the lecture in E.10.  | 1955         |
| E.12      | 'Conduction and Recovery in Giant Axons', Stockholm, Sweden, June 1955 or 1956.<br><br>Incomplete 13pp typescript draft so entitled, with manuscript revisions.<br><br>The cover of the file is inscribed 'Stockholm Lecture June 1956'. There is a further inscription inside the file: 'Stockholm 1955'. | 1955 or 1956 |
| E.13-E.15 | 'Grad. Sci. Club 1956. Tracers & another lecture London', contents of a file so inscribed.   | 1956         |

### Lectures and speeches

- E.13                    'Applications of the Isotope Technique in Studies of Nervous Conduction'.  
  
13pp typescript draft so entitled with manuscript revisions.
- E.14                    12pp untitled manuscript draft of a lecture.  
  
This lecture is different to the one in E.13 but is on the same topic.
- E.15                    Manuscript notes and draft pages relating to either one or both of the drafts in E.13 and E.14.
- E.16-E.29            'Ionic Movements and Electrical Activity in Giant Nerve Fibres', The Croonian Lecture, Royal Society, 16 May 1957.                    1957
- E.16                    Incomplete manuscript draft.
- E.17-E.18            Further incomplete manuscript draft, or drafts, with pages of notes intercalated.  
  
A number of pages are possibly out of sequence.  
  
2 folders.
- E.19                    Typescript draft with manuscript revisions.
- E.20-E.22            Typescript draft with extensive manuscript revisions.  
  
This appears to be a draft of the later published version.  
  
3 folders.
- E.23                    Parts of other typescript drafts, some with manuscript revisions.

**Lectures and speeches**

- E.24-E.26                      Typescript and manuscript pages of references and data,  
with figures.  
  
3 folders.
- E.27                              Corrected proof of the lecture and related letter.
- E.28-E.29                      Correspondence with various scientists before and after  
Hodgkin's Croonian lecture, with reprint of the lecture.                      1957  
  
Chiefly *re* points of detail with reference to the lecture  
itself or to the published paper which followed.  
  
2 folders.
- E.30                              'Harvard 1958. Conduction & recovery in giant nerve  
fibres', contents of a file so inscribed.                      1958  
  
15pp of a manuscript draft or drafts.
- E.31-E.32                      'The Link between Electrical and Mechanical Events in  
Muscle. MIT 1958', contents of a file so inscribed.                      1958
- E.31                              27pp manuscript draft entitled 'The Link between  
Electrical and Mechanical Events in Muscle', with a few  
manuscript pages of notes and fragments of another  
draft.
- E.32                              Typescript revised version of the lecture with further  
manuscript revisions.  
  
On a preceding title page is a note 'Biophysics  
Conference MIT & Rockefeller Inst.'
- E.33                              'Muscle. NIH 1958', contents of a file so inscribed.                      1958  
  
13pp incomplete typescript draft entitled 'The Link  
between Electrical and Mechanical Events in Muscle';  
first page of a manuscript draft of the same lecture  
headed 'Washington Bethesda NIH'.  
  
/...

**Lectures and speeches**

/...

This draft has the same title as those in E.31-E.32 and appears to be the revised version of the draft in E.31.

- |      |  |      |
|------|--|------|
| E.34 | <p>'Electrical Activation of Muscle. Hardy Club 1958', contents of a file so inscribed.</p> <p>Untitled 25pp manuscript and typescript draft; 4pp manuscript notes.</p>  | 1958 |
| E.35 | <p>'1958 Misc. muscle notes. Also nerves', contents of a file so inscribed.</p> <p>Untitled and incomplete manuscript drafts of lectures (possibly up to 3 different lectures).</p>  | 1958 |
| E.36 | <p>'Propagation of Electrical Signals along Nerve Fibres', Institution of Electrical Engineers, 5 May 1959.</p> <p>16pp typescript draft, so entitled, with manuscript revisions; 1p manuscript notes for the lecture.</p>                               | 1959 |
| E.37 | <p>'The Mechanism of Nervous Conduction', delivered at a 'Biophysics meeting', Cambridge, July 1959.</p> <p>13pp manuscript draft so entitled and 5pp manuscript notes.</p>  | 1959 |
| E.38 | <p>'Gordon Conference USA 1959. Link between chemical &amp; physical events in nerve (injection ~ p) (Meriden New Hampshire)', contents of a file so inscribed.</p> <p>Untitled 13pp manuscript draft; typescript revised version; one page of data.</p> | 1959 |
| E.39 | <p>'Cambridge. Biochemical Tea Club 1959. Link between biochemical and electrical events', contents of a file so inscribed.</p> <p>Untitled and incomplete 4pp manuscript draft; 4pp manuscript notes.</p>   | 1959 |

**Lectures and speeches**

- |           |   |      |
|-----------|---|------|
| E.40      | 'Buenos Aires 1959. Energy rich phosphate. Link between chemical & electrical events in nerve', contents of a file so inscribed.<br><br>Manuscript draft of first page; untitled 15pp typescript draft with manuscript revisions; manuscript and typescript notes and data. | 1959 |
| E.41      | 'Carpologists 1959. Electrophysiology past & present (mainly historical)', contents of a file so inscribed.<br><br>14pp manuscript draft entitled 'Electrophysiology, past and present'; 3pp manuscript notes.  | 1959 |
| E.42-E.47 | 'The Physics and Chemistry of Nervous Conduction', Royal Society Tercentenary Lecture, 1960.  | 1960 |
| E.42-E.46 | 'Early notes & ms for Tercentenary Lecture', contents of a file so inscribed.   |      |
| E.42      | 5pp manuscript draft of abstract and typescript revised version; 8pp manuscript notes.  |      |
| E.43      | 20pp manuscript draft of the lecture;   |      |
| E.44      | Typescript revised version of the draft in E.43 with further manuscript revisions.  |      |
| E.45      | Later typescript draft with manuscript revisions.   |      |
| E.46      | Various material, including brief correspondence, sent to Hodgkin to assist him with the historical background to his lecture.  |      |

**Lectures and speeches**

- E.47                      Contents of a file inscribed with the title of the lecture.  
  
Further typescript draft of the lecture with manuscript revisions.
- E.48-E.62                'The Conduction of the Nervous Impulse', Sherrington                1958-1963  
Lectures, University of Liverpool, [? 2, 3 March] 1961.  
  
The two lectures were published as the 'The Conduction of the Nervous Impulse' (*Liverpool University Press*).  
  
The material in E.54-E.62 concerns the publication of the lecture only.
- E.48-E.49                'Sherrington Lectures MS', contents of a file so inscribed.  
  
49pp manuscript draft, or drafts, and 2pp notes.  
  
2 folders.
- E.50                      'Lecture I'.  
  
25pp typescript draft so entitled, with manuscript revisions; 4pp manuscript notes.
- E.51-E.52                'Lecture II'.
- E.51                      19pp manuscript draft.
- E.52                      Incomplete 18pp revised typescript draft, entitled as above, with further manuscript revisions; manuscript notes relating to either 'Lecture I' or 'Lecture II'.
- E.53                      Correspondence chiefly *re* arrangements for the lecture                1958-1961  
and plans for its publication.
- E.54-E.55                Correspondence *re* publication with corrected proofs.                1962-1963  
  
2 folders.

**Lectures and speeches**

- E.56                      Manuscript draft of Appendix with a few pages of corrected proofs etc.  
  
                                 Contents of a file inscribed 'Chapter V and Appendix'.
- E.57-E.60                Figures with draft legends etc.  
  
                                 4 folders.
- E.61                      Manuscript notes on figures, tables and calculations.
- E.62                      Miscellaneous draft material.
- E.63                      'Nervous Conduction (?Title). Notes for lecture in Cavendish 1961', contents of a file so inscribed.                      1961  
  
                                 Manuscript notes and first page of a manuscript draft (untitled).
- E.64                      'Biological Membrane. Carphologists. Also notes for Woods Hole lecture not given. May 1962', contents of a file so inscribed.                      1962  
  
                                 6pp manuscript notes on small cards entitled 'Biological Membranes'; 10pp manuscript draft headed 'Woods Hole Lectures. Notes. Carphologists'.  
  
                                 See E.65-E.68 for drafts of the Woods Hole Lectures.
- E.65-E.68                'Woods Hole Lectures 1962', contents of 3 files so inscribed.                      1962  
  
                                 See also E.64.
- E.65-E.66                Contents of first file, also inscribed 'Nerve. Conduction of impulses in nerve & muscle (no muscle). Based on Sherrington'.

**Lectures and speeches**

- E.65                    'Lecture 1'.  
  
Incomplete 18pp manuscript and typescript draft so entitled.
- E.66                    'Lecture 2'.
- 21pp manuscript and typescript draft so entitled; 2pp manuscript notes relating to 'Lecture 1' or 'Lecture 2'.
- E.67                    Contents of 2nd file, also inscribed 'Electrophysiology seminar. Perfusion'.  
  
Untitled 13pp manuscript draft.
- E.68                    Contents of 3rd file, also inscribed 'Muscle activation. Fragment not given'.  
  
2 manuscript drafts, one headed 'Muscle'.
- E.69                    'Some experiments with perfused nerve fibres from *Loligo forbesi*, Symposium on Biophysics of Peripheral Nerve, XXII International Congress of Physiological Sciences, Leiden, The Netherlands, 10-17 September 1962.                    1962  
  
Copy of 5pp typescript conference paper, co-authored by P.F Baker and T.I. Shaw, entitled as above.
- E.70                    'Perfusion. Foster Club. Oct. 1962', contents of a file so inscribed.                    1962  
  
8pp manuscript draft and 4pp manuscript notes.
- E.71-E.80              Nobel Prize Lecture and acceptance speech, Stockholm, 1963.                    1963-1964
- E.71                    Acceptance speech.  
  
4pp typescript and manuscript draft with manuscript revisions.

**Lectures and speeches**

E.72-E.73	'The Ionic Basis of Nervous Conduction', Nobel Lecture, 11 December 1963.	1963
E.72	Early 19pp manuscript draft, possibly incomplete; parts of other manuscript drafts.	
E.73	18pp typescript draft with manuscript revisions; revised typescript draft with manuscript revisions.  Contents of a file inscribed 'Nobel Lecture oral'.	
E.74-E.80	Contents of a file inscribed 'written version'.	
E.74	16pp manuscript draft with extensive revisions.	
E.75	19pp typescript draft with extensive manuscript revisions; manuscript drafts of figure legends and references.	
E.76	Typescript draft (revised from the one in E.75), with manuscript revisions.	
E.77	A few manuscript and typescript pages from other drafts; a few pages of manuscript notes.	
E.78	Typescript short autobiographical account and other information requested for publication.	
E.79	Proof of German translation of the lecture, with covering letter and figures.	1964
E.80	Miscellaneous figures etc.	
E.81-E.83	'Recent Experiments with Giant Nerve Fibres', Review Lecture, Royal Society, 20 February 1964.	1964

Lectures and speeches

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|------|---|-----------|
| E.81 | Correspondence <i>re</i> arrangements and arising, with summary of the lecture.   | 1963-1964 |
| E.82 | 15pp manuscript draft of the lecture; 15pp manuscript notes.  |           |
| E.83 | 19pp typescript draft with manuscript revisions, with one page of another typescript draft and 1p manuscript notes for slides.  |           |
| E.84 | 'Paris 1964', contents of a file so inscribed.<br><br>Incomplete 12pp typescript and manuscript draft entitled 'Recent experiments on Giant Nerve Fibres', with manuscript revisions.<br><br>The draft appears to be a revised version of the lecture in E.81-E.83.   | 1964      |
| E.85 | 'The present status of the ionic theory in perfused nerve fibres', Symposium on Biophysics of Excitable Membrane of Nerve, Tokyo, Japan, 9 September 1965.<br><br>11pp manuscript draft entitled as above; typescript draft with manuscript revisions; 4pp manuscript notes; copy of symposium programme.<br><br>An abstract of the lecture is in E.87. | 1965      |
| E.86 | 'Washington 1965', contents of a file so inscribed.<br><br>18pp typescript draft entitled 'Giant nerve fibres', with manuscript revisions.  | 1965      |
| E.87 | 'Miami Lecture 1965', contents of a file so inscribed.<br><br>Untitled 14pp typescript draft with manuscript revisions; typescript abstract of the lecture in E.85 found with the draft.  | 1965      |

**Lectures and speeches**

E.88	'Activation of muscle. Grad Sci 1965', contents of a file so inscribed.  3pp incomplete manuscript draft entitled 'Activation of muscle'.	1965
E.89-E.90	'Calcium Genoa [Norwich crossed out] 1967', contents of a file so inscribed.	1967
E.89	13pp manuscript draft entitled 'Calcium movements in giant nerve fibres'; 2pp manuscript notes; typescript revised version.	
E.90	16pp typescript and manuscript draft, entitled as in E.89, with manuscript revisions.  This draft appears to be an expanded version of the ones in E.89.	
E.91-E.94	'USSR 1967', contents of 2 files so inscribed.	1967
E.91-E.92	Contents of first file, also inscribed 'Lecture 1'.	
E.91	Incomplete 24pp manuscript draft entitled 'Perfusion of giant nerve fibres'.	
E.92	Typescript revised version with further manuscript revisions; a few pages of another manuscript draft or drafts and 1p manuscript notes.	
E.93-E.94	Contents of second file, also inscribed 'Lecture 2'.	
E.93	17pp manuscript and typescript draft, headed 'Lecture 2', with manuscript revisions.	
E.94	Typescript draft entitled 'Permeability changes and active transport in giant nerve fibres', with manuscript revisions; 1p manuscript notes.	

**Lectures and speeches**

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|-------------|--|------|
| E.95        | <p>'Calcium. USA 1968', contents of a file so inscribed.</p> <p>13pp manuscript draft entitled 'Movements of calcium in giant nerve fibres'; incomplete untitled typescript draft with manuscript revisions; first page of another manuscript draft; 5pp manuscript notes.</p>                                   | 1968 |
| E.96        | <p>'The Relation between Electrical and Mechanical Events in Muscle', Hester Adrian Memorial Lecture, Rockefeller Institute, New York, USA, ?January 1969 [Hodgkin's question mark].</p> <p>27pp typescript draft so entitled, with manuscript revisions; 3pp information on a film about muscle activation.</p> | 1969 |
| E.97        | <p>'Foster Club May 1969', contents of a file so inscribed.</p> <p>Untitled 10pp manuscript draft; 3pp manuscript notes.</p>   | 1969 |
| E.98        | <p>'Oxford Ca. Physiol Soc 1969', contents of a file so inscribed.</p> <p>Untitled 3pp manuscript draft.</p>   | 1969 |
| E.99        | <p>'Foster Club 14 May 1970. March 1971 - India', contents of a file so inscribed.</p> <p>Two incomplete manuscript drafts (3pp and 4pp), one headed 'Introduction. Foster Club 14 May 1970', with copied pages from the draft in E.101.</p> <p>The original sequence of pages has been preserved.</p>           | 1970 |
| E.100       | <p>Speech [?Anniversary Address] delivered as incoming President, Royal Society, 30 November 1970.</p> <p>8pp typescript draft with manuscript revisions.</p>  | 1970 |
| E.101-E.104 | <p>'Japan 1970', contents of 2 files so inscribed.</p>   | 1970 |

**Lectures and speeches**

- E.101-E.102            'Calcium movements in giant nerve fibres'.
- E.101                    18pp manuscript draft so entitled; 3pp manuscript notes.
- E.102                    Typescript revised version with further manuscript revisions.
- E.103-E.104            'Electrical properties and activation of vertebrate skeletal muscle'.
- E.103                    19pp manuscript and typescript draft so entitled; 3pp manuscript notes.
- Possibly incomplete. There are changes to the pagination, possibly indicating that there are parts of more than one draft present.
- E.104                    Typescript revised version with figures; 3 manuscript pages headed 'Not used'.
- E.105                    Addresses at graduation ceremonies, University of Leicester, 16 July 1971.                    1971
- 2 typescripts (1p and 2pp) of addresses.
- E.106                    'Schools - post conversazione. RS 1971 (Oct?)', contents of an envelope so inscribed.                    1971
- 2pp manuscript draft; 1p brief manuscript notes; brief correspondence *re* a quotation for use in the speech.
- E.107                    'IEE Centenary 1971', contents of a file so inscribed.                    1971
- 4pp manuscript draft of a congratulatory speech (on the occasion of the IEE's centenary) entitled 'The Royal Society of London to the Institution of Electrical Engineers'.
- Hodgkin was President of the Royal Society at this time and spoke on the Society's behalf.

**Lectures and speeches**

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|-------------|--|------|
| E.108-E.110 | 'The Physical Basis of Nervous Conduction', Institution of Electrical Engineers, 1971.   | 1971 |
| E.108       | 23pp manuscript draft so entitled, with references.  |      |
| E.109       | 22pp typescript draft with manuscript revisions and inserted manuscript pages.<br><br>Title page is inscribed 'IEE 1971. Published 1971'.  |      |
| E.110       | Corrected proof.   |      |
| E.111       | Speech at the Rutherford Centenary Dinner, Trinity College, Cambridge.<br><br>Untitled 5pp manuscript draft; copy of a letter by W.L. Bragg (1971) containing an anecdote about Ernest Rutherford used by Hodgkin in his speech. | 1971 |
| E.112-E.113 | Speech given at the annual meeting of the British Association for the Advancement of Science, Leicester, 5 September 1972.<br><br>Hodgkin's speech was in response to the Presidential Address given by Sir Vivian Fuchs.        | 1972 |
| E.112       | Correspondence etc <i>re</i> invitation and arrangements.<br><br>Included is an advance copy of Fuchs's speech.  |      |
| E.113       | 3pp manuscript draft of Hodgkin's speech; typescript revised version.  |      |

**Lectures and speeches**

- E.114                      Speech at Imperial College, London, 26 October 1972.                      1972
- Hodgkin gave the speech on being made a Fellow of the College at a ceremony commemorating the centenary of the death of HRH Prince Albert, the Prince Consort.
- 12pp manuscript draft and typescript revised version (the date is inscribed on the first page). Both drafts are untitled.
- E.115                      Speech at the Royal Society Anniversary Dinner.                      1972
- 11pp manuscript draft headed 'Anniversary Dinner'; typescript revised version.
- E.116-E.118              Anniversary Address, Royal Society, 30 November 1973.              1973
- E.116                      6pp manuscript draft entitled 'Anniversary Address 1973' concerning general Royal Society business; 14pp manuscript draft entitled 'Thomas Young and his contribution to the understanding of colour' (this formed part of the Address).
- E.117                      Several pages of manuscript drafts and notes headed 'Notes for Anniv. Address' on first page; drafts of figure legends.
- E.118                      Corrected proof of the Address; correspondence, chiefly              October 1973  
letters to Hodgkin from various scientists to whom he sent drafts of the Address for comment.
- E.119                      'RS Anniversary Dinner 1973 [? November or                      1973  
December]', contents of a file so inscribed.
- 8pp manuscript draft; typescript revised version headed 'First draft'.

Lectures and speeches

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|-------------|--|------|
| E.120       | <p>'Recent Research on Visual Mechanisms', Trevor Shaw Memorial Lecture, 20 February 1974.</p> <p>Incomplete 15pp manuscript draft so entitled; typescript revised version.</p>  | 1974 |
| E.121       | <p>'Electrical Analysis of Light Reception in Turtle Cones', 'NIH', June 1974.</p> <p>5pp manuscript draft and typescript revised version, entitled as above; 17pp expanded manuscript draft, also with the above title.</p>   | 1974 |
| E.122       | <p>'Compton Institute [for Research on Animal Diseases]. June 1974', contents of an envelope so entitled.</p> <p>Hodgkin was Guest of Honour on the Institute's first Open Day.</p> <p>7pp manuscript draft and typescript revised version.</p>                                    | 1974 |
| E.123       | <p>Speech at the opening ceremony of Centenary Celebrations, the Society for Analytical Chemistry, 16 July, 1974.</p> <p>Hodgkin was Guest of Honour.</p> <p>Brief correspondence <i>re</i> arrangements; 6pp manuscript draft of Hodgkin's speech and later typescript draft.</p> | 1974 |
| E.124       | <p>Addresses on Graduation Day, University of Leicester, July 1974.</p> <p>2 typescripts (both 2pp) of addresses.</p>  | 1974 |
| E.125-E.127 | <p>'Recent work on visual mechanisms. Delhi 1974', contents of an envelope so inscribed.</p>   | 1974 |
| E.125       | <p>26pp manuscript and typescript draft, entitled 'Recent work on visual mechanisms', with manuscript revisions</p>  |      |

**Lectures and speeches**

- E.126                      5pp manuscript notes; revised typescript draft with further manuscript revisions, inscribed '21.10.74' on first page.
- E.127                      Further typescript version, inscribed 'oral version', with figures.
- E.128-E.129                Royal Society Anniversary Address, 30 November 1974.                      1974
- E.128                      10pp manuscript draft headed 'MS Anniv. Address'; 6pp further manuscript draft pages; 1p manuscript draft of legends for slides.
- E.129                      11pp manuscript draft entitled 'Sir John Pringle PRS and the origin of the Anniversary Address'; correspondence with various scientists concerning matters covered in the Address.
- E.129A                      Address delivered at The Royal College of Surgeons of England, 8 January 1975.                      1974-1975
- The address was to new diplomates.
- Correspondence *re* arrangements with a typescript draft of the address.
- E.130-E.141                Royal Society Anniversary Address, 1975.                      1975
- Contents of a box file.
- See G.226-G.227 for related papers.
- E.130-E.133                'Anniv. Address original MS', contents of a file so inscribed.
- E.130                      10pp manuscript draft headed 'Anniversary Address'.

**Lectures and speeches**

- E.131                    'Some consequences of the 1972 White Paper "A Framework for Government Research and Development (Command 5046)" '                    1975
- 15pp manuscript draft so entitled, with a further manuscript draft of the first page.
- E.132                    4pp manuscript draft headed 'Draft - do not use'.
- E.133                    Miscellaneous manuscript draft pages and notes.
- E.134-E.140            Correspondence etc with various scientists concerning Hodgkin's Anniversary Address.                    1975
- Hodgkin sought advice from a number of colleagues in the scientific community concerning the organisation of science in the UK, a topic covered in his address. The correspondence arises from this and also includes more general comments on the address.
- Included at E.140 are 2 typescript drafts, with manuscript revisions, of the Address which were found with the correspondence.
- 7 folders.
- E.141                    'Anniv. Address - further papers', contents of a file so inscribed.                    1975
- Correspondence and papers *re* Dutch Elm Disease.
- E.142                    'After lunch' speech at a Royal Society function.                    ?1975
- 7pp typescript draft entitled 'The Role of the Royal Society in Supporting Arts and Sciences', with manuscript revisions; brief data etc.
- E.143                    'Leicester Medical Society'.                    1976
- 7pp typescript of a speech (possibly an after-dinner speech) so entitled, also inscribed '11.11.76'.

Lectures and speeches

- E.144 'Early Receptor Potential in Turtle Cones. Foster Club. 18 Nov. 1976', contents of an envelope so inscribed. 1976  
12pp manuscript draft headed 'E.R.P' and manuscript notes; typescript revised version.
- E.145-E.146 'Dunham Lectures 1976', contents of two envelopes so entitled. 1976
- E.145 'Axonology past and present', first lecture.  
25pp manuscript draft so entitled.
- E.146 'The Study of Excitable Membranes', second lecture.  
23pp manuscript draft so entitled.
- E.147 'Electrical Analysis of Light Reception in the Turtle Retina', Halliburton Lecture in Physiology, King's College London, 24 February 1977. 1975-1977  
Correspondence *re* arrangements and a previous invitation to give the lecture.
- E.148-E.149 Addresses in memory of Lord Adrian. 1977
- E.148 'Address at the memorial service for Lord Adrian OM, FRS at Westminster Abbey on 18 October 1977'.  
5pp typescript so entitled.
- E.149 'Lord Adrian: Gt. St. Mary's, Cambridge, 29 October 1977'.  
9pp typescript draft of an address; typescript corrected version entitled as above.

**Lectures and speeches**

- E.150-E.152      Speeches made by Hodgkin in connection with his Chancellorship of the University of Leicester, 8 December 1977. 1977  
The speeches are all inscribed '8.12.77'.
- E.150      Speech inviting Sir Cyril Clarke to open the Medical Sciences Building at the University of Leicester.  
Untitled 4pp typescript.
- E.151      'Joint University / AHA Charitable Trust Inaugural Meeting, 8 December 1977'.  
1p typescript draft with manuscript revisions.
- E.152      'Portrait'.  
2pp typescript draft of a speech, so entitled, presenting a portrait to Sir Fraser Noble, former Vice-Chancellor of the University.
- E.153-E.154      Dinner held on Hodgkin's admission as Master of Trinity College Cambridge, 5 October 1978. 1978  
Hodgkin made the following two speeches at the dinner:
- E.153      'Reply to Vice-Master. Admission of Master - dinner'.  
10pp typescript so entitled.
- E.154      'Admission of new fellows'.  
6pp typescript so entitled.
- E.155      'Matriculation Dinner [at Trinity College Cambridge]. 20th October 1978'. 1978  
4pp typescript draft, with manuscript revisions, so entitled.

**Lectures and speeches**

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|-------|---|------|
| E.156 | Untitled 1p typescript of a short introductory speech for the [Andrew] Marvell Tercentenary Lecture, Trinity College Cambridge.<br><br>Inscribed '18th November 1978'.  | 1978 |
| E.157 | 'The Alpine Club [at Trinity College Cambridge], 12th December 1978'.<br><br>5pp typescript draft, so entitled, with manuscript revisions.  | 1978 |
| E.158 | 'A surprising property of the rod network in the turtle retina', Foster Club, 1978.<br><br>18pp manuscript draft so entitled; 1p manuscript notes.<br><br>Contents of an envelope inscribed 'Foster Club 1978'.   | 1978 |
| E.159 | 'Lees Knowles Lectures - 1979 (Lord Carver)'.<br><br>Manuscript drafts, written on 2 small cards, of speeches introducing and concluding a lecture by Lord Carver, probably given at Trinity College Cambridge. Inscribed 'Feb 1979'.<br><br>The cards were stapled to a page with the above title. | 1979 |
| E.160 | 'Past Masters: Trinity. 1st March 1979'.<br><br>16pp typescript of a speech, so entitled, about the life and work of Lord Adrian.   | 1979 |
| E.161 | 'Stagnation and reform in nineteenth century Cambridge'.<br><br>17pp manuscript and typescript draft, so entitled, with manuscript revisions, also inscribed 'BA Society 9 March 1979'; later typescript draft with manuscript revisions and additions.   | 1979 |

**Lectures and speeches**

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|-------|--|------|
| E.162 | 'Camberwell Dinner 28 April 1979'.<br><br>3pp typescript draft, so entitled, with manuscript revisions.  | 1979 |
| E.163 | '99 Club [University of Cambridge]. May 4 1979'.<br><br>3pp typescript draft, so entitled, with manuscript revisions.  | 1979 |
| E.164 | 'Graduation Dinner [at Trinity College Cambridge], 21st June 1979'.<br><br>6pp typescript draft, so entitled, with manuscript revisions.   | 1979 |
| E.165 | 'Annual Gathering [at Trinity College Cambridge], 26th June 1979: for years 1935-1938'.<br><br>8pp typescript draft, so entitled, with manuscript revisions.   | 1979 |
| E.166 | Speech welcoming HRH The Prince of Wales to Trinity College Cambridge, 1 August 1979.<br><br>Untitled 2pp typescript draft with manuscript revisions. The above date is inscribed on the first page. | 1979 |
| E.167 | 'Annual Gathering [at Trinity College Cambridge] year 1966-1967. 25th September 1979'.<br><br>7pp typescript draft, so entitled, with manuscript revisions.  | 1979 |
| E.168 | 'Boat Club Dinner [at Trinity College Cambridge]: 4th October 1979'.<br><br>2pp typescript draft, so entitled, with manuscript revisions.  | 1979 |

**Lectures and speeches**

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|-------|--|------|
| E.169 | 'Fellowship Admission Dinner [at Trinity College Cambridge]: Tuesday 9th October 1979'.<br><br>8pp typescript draft, so entitled, with manuscript revisions.   | 1979 |
| E.170 | 'Matriculation Dinner [at Trinity College Cambridge]: 26th October 1979'.<br><br>7pp typescript draft, so entitled, with manuscript revisions.   | 1979 |
| E.171 | 'Birkbeck Lecture [Trinity College Cambridge] 28th November 1979'.<br><br>Typescripts of short introductory and concluding speeches for the Birkbeck Lecture which was given by E.R. Norman, Dean of Peterhouse. | 1979 |
| E.172 | 'Commemoration [Trinity College Cambridge] 1979'.<br><br>12pp typescript draft, so entitled, with manuscript revisions; brief manuscript note relating to the event.   | 1979 |
| E.173 | '6th Form Conference [at Trinity College Cambridge] 1979'.<br><br>5pp typescript draft so entitled.  | 1979 |
| E.174 | 'Clark Lecture [Trinity College Cambridge] 1980'.<br><br>Typescript on one small card, so entitled. Inscribed '8th February 1980' on back.   | 1980 |
| E.175 | Speech in tribute to a former Trinity College classical scholar, John Smith.<br><br>Untitled 6pp typescript draft with manuscript revisions, headed 'April-May 1980'.  | 1980 |

**Lectures and speeches**

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|-------|--|------|
| E.176 | 'Graduation Dinner [Trinity College Cambridge] June 1980'.<br><br>6pp typescript draft, so entitled, with manuscript revisions.                            | 1980 |
| E.177 | 'Annual Gathering [at Trinity College Cambridge] June 1980'.<br><br>6pp typescript draft, so entitled, with manuscript revisions.                          | 1980 |
| E.178 | 'Leicester 1980 - Science, Social Science, Medicine'.<br><br>3pp typescript, so entitled, of an address at a graduation ceremony, University of Leicester. | 1980 |
| E.179 | 'Leicester 1980 - Arts, Law, Medicine'.<br><br>2pp typescript of an address at a graduation ceremony, University of Leicester.                             | 1980 |
| E.180 | 'Annual Gathering [at Trinity College Cambridge] 23rd September 1980'.<br><br>6pp typescript draft, so entitled, with manuscript revisions.                | 1980 |
| E.181 | 'Fellowship Admission Dinner [Trinity College Cambridge] - 7th October 1980'.<br><br>8pp typescript draft, so entitled, with manuscript revisions.         | 1980 |
| E.182 | 'Napp Ground-Breaking Ceremony [at Trinity College Cambridge], 20th October 1980'.<br><br>1p typescript so entitled.                                       | 1980 |

**Lectures and speeches**

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|-------------|---|------|
| E.183       | 'Matriculation Dinner - 24th October 1980'.<br><br>6pp typescript draft, so entitled, with manuscript revisions.              | 1980 |
| E.184       | 'Tree planting ceremony - 26th Nov 1980'.<br><br>1p typescript, so entitled, possibly incomplete.                             | 1980 |
| E.185-E.187 | 'The Physical Basis of Vision', Royal Institution, November 1980.   | 1981 |
| E.185       | Correspondence <i>re</i> the publication of the lecture.  | 1981 |
| E.186       | 28pp typescript and manuscript draft of the published version of the lecture with manuscript revisions.                       |      |
| E.187       | Typescript of published version, revised from the version in E.186.   |      |
| E.188       | 'Staff dinner [at Trinity College Cambridge], 20 Dec-80'.<br><br>4pp manuscript draft so entitled.                            | 1980 |
| E.189       | 'Commemoration 1980'.<br><br>11pp typescript draft, so entitled, with manuscript revisions.                                   | 1980 |
| E.190       | Untitled 4pp typescript of a speech.<br><br>The speech was in tribute to Wilhelm Feldberg just before his eightieth birthday. | 1980 |

**Lectures and speeches**

- E.190A-B.190B      Contents of a ring binder inscribed 'ALH's speeches 1981-1982'.      1981-1982
- Typescripts and typescript drafts of speeches made by Hodgkin in connection with his Mastership of Trinity College Cambridge and Chancellorship of the University of Leicester.
- Most of the speeches appear to have been delivered at various Trinity College functions. A number of these are welcoming or introductory speeches. Those concerning the University of Leicester chiefly comprise speeches delivered at graduation ceremonies, 1981 and 1982.
- 2 folders.
- E.191      'Leicester Lecture, 2 March 1982', contents of an envelope so inscribed.      1982
- 29pp manuscript draft, with typescript inserted pages, entitled 'Neurobiology - past & present'.
- E.192-E.195      Lecture given at the Foster Club, 1 December 1982.      1981-1982
- E.192      Untitled 17pp manuscript and typescript draft with manuscript revisions, including drafts for figures.
- E.193      Untitled typescript, revised from the draft in E.192.
- E.194-E.195      Contents of a file inscribed 'Notes for MS'.      1981-1982
- Various papers and correspondence, chiefly photocopies of papers by others. There are further pages of a manuscript draft, in Hodgkin's hand, at E.194.
- 2 folders.
- E.195A      Fuortes Memorial Lecture, 12 December 1983.      1983
- 23pp typescript draft of an Address by Hodgkin in memory of M.G.F. Fuortes entitled 'Attempting to understand vision'.

**Lectures and speeches**

E.196-E.206	Contents of a box file inscribed 'unpublished MSS and talks'.	1985-1987, nd
E.196-E.197	'Ionic Processes in Phototransduction', with P.A. McNaughton and B.J. Nunn', 12 September 1985.	1985
E.196	10pp typescript draft, so entitled, with manuscript revisions; manuscript notes.	
E.197	Figures.	
E.198	'Pisa 2-v-86'.  Incomplete 1p manuscript draft of a speech or lecture, so entitled.	1986
E.199-E.200	'Control of light-sensitive currents in retinal rods', Foster Club, 11 March 1977.	1977
E.199	17pp manuscript draft so entitled; 5pp manuscript notes.	
E.200	Typescript draft, revised from the draft in E.199, with further manuscript revisions.	
E.201	'Control of light-sensitive currents in retinal rods. Viareggio 1987 Nov'.  Incomplete 6pp manuscript draft, so entitled, and one page of a typescript draft; 4pp manuscript notes headed 'Viareggio &/or Fidia' (see E.202 for an apparently related lecture).	1987
E.202	Incomplete 3pp manuscript draft headed 'For Fidia - not used'.  See E.201 for an apparently related lecture.	nd

**Lectures and speeches**

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|-------------|--|-----------|
| E.203       | 'Requirements for a Model of Na / Ca Exchange on Vertebrate Rods'.<br><br>Incomplete 7pp typescript draft, so entitled, with manuscript revisions; figures etc for slides. | nd        |
| E.204       | 'Peter Baker', a speech by Hodgkin in tribute to a former colleague.<br><br>Photocopy of 14pp manuscript draft so entitled.  | nd        |
| E.205-E.206 | 'Helmerich Lecture', contents of a file so inscribed.  | nd        |
| E.205       | 'Modulation of ionic currents in vertebrate photoreceptors'.<br><br>31pp manuscript draft (pagination incomplete) so entitled.   |           |
| E.206       | Typescript draft, revised from the draft in E.205, with further manuscript revisions.<br><br>Transparancies are included.  |           |
| E.207-E.214 | Undated speeches delivered during Hodgkin's Presidency of the Royal Society, 1970-1975.  | 1970-1975 |
| E.207       | Speech in tribute to Lord Blackett delivered at a meeting of the Royal Society.<br><br>3pp typescript.   |           |
| E.208       | Speech delivered at the Science Museum, London, to open an exhibition entitled 'George Ravenscroft and 300 years of lead glass'.<br><br>3pp typescript.                    |           |

**Lectures and speeches**

- E.209                      Speech congratulating new diplomates of the Royal College of Surgeons.  
  
6pp typescript.
- E.210                      Royal Society [?Anniversary Address].  
  
18pp typescript of a probable Royal Society Anniversary Address, with references etc.
- E.211                      Speech covering general Royal Society business, possibly part of a Presidential Address.  
  
7pp typescript.
- E.212                      Speech covering general Royal Society business, possibly part of a Presidential Address.  
  
Incomplete 6pp manuscript draft.
- E.213                      Speech opening the Cambridge Science Park.
- E.214                      Speech introducing the 40th Parsons Memorial Lecture.  
  
2pp typescript.
- E.215-E.226              Undated lectures and speeches
- E.215                      'The Optimum Density of Sodium Channels in an Unmyelinated Nerve'.                      nd  
  
8pp typescript including references etc.
- E.216                      'Eldridge-Green Lecture', contents of a file so inscribed.                      nd  
  
Incomplete 9pp manuscript draft; incomplete typescript version. Both untitled.

**Lectures and speeches**

E.217-E.218	'MIT Lecture. MS of Na paper', contents of a file so inscribed.	nd
E.217	First page of a manuscript draft entitled 'Effect of internal sodium ions on the light-sensitive current in toad rods'; 5pp manuscript notes.	
E.218	'MIT Lecture'.  24pp typescript so entitled.	
E.219	'Fuortes & Hodgkin. Amsterdam Lecture', contents of a file so inscribed.  Untitled 13pp manuscript draft; 7pp manuscript notes.	nd
E.220	'Bryanston', contents of a file so inscribed.  Untitled 7pp manuscript draft and 1p manuscript notes.	nd
E.221	Speech to open a new laboratory building at the University of Oxford.  7pp manuscript draft and typescript revised version.	nd
E.222	Speech proposing the toast of the Institution of Electrical Engineers.  5pp typescript.	nd
E.223	'Luke Howard', a short talk on an ancestor of Hodgkin.  3pp typescript.	nd
E.224	Speech opening new buildings at a school.  11pp manuscript draft.	nd

**Lectures and speeches**

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|-------|---|----|
| E.225 | Short speech introducing a lecture on Sir Charles Tennyson, probably at Trinity College Cambridge.<br><br>2pp manuscript draft on a small card. | nd |
| E.226 | Brief typescript note of an announcement for a social event at Trinity College Cambridge.   | nd |

**SECTION F**                      **VISITS AND CONFERENCES, F.1-F.61**                      **1961-1998**

Arranged chronologically.

F.1-F.2                      Visit to the USA, June-July 1962.                      1961-1962

Hodgkin was appointed the Alexander Forbes Lecturer (sponsored by the Grass Foundation) at the Marine Biological Laboratory, Woods Hole, Massachusetts for 1962. He delivered two lectures, 'Conduction of impulses in nerve and muscle, I and II', on 6 and 9 July.

Correspondence, chiefly *re* arrangements.

2 folders.

F.2A                      Twenty-second International Congress of Physiological Sciences, Leiden, Netherlands, 10-17 September 1962.                      1962

Hodgkin, with P.F. Baker and T.I. Shaw, presented a paper entitled 'Some experiments with perfused nerve fibres from *Loligo forbesi*' at a symposium on 'Biophysics of Peripheral Nerve'.

Abstract of the lecture with a letter from Baker to Hodgkin.

F.3                      'Neurophysiology - 1924-1964', a meeting at the University of Cambridge, 16-20 March 1964.                      1963

The meeting, at which Lord Adrian was Guest of Honour, was supported by The Royal Society and the International Brain Research Organisation. Hodgkin attended but did not give a paper.

Brief correspondence etc *re* arrangements.

F.4                      Meeting of the International Organisation of Pure and Applied Biophysics, Paris, 22-26 June 1964.                      1963-1964

Hodgkin gave a lecture entitled 'Some Recent Experiments on Giant Nerve Fibres'.

Correspondence *re* invitation and arrangements, with abstract of Hodgkin's paper.

Visits and conferences

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|-----------|---|-----------|
| F.5       | Visit to the USA, January 1965.<br><br>Hodgkin attended a conference on squid axons, Miami, USA, 8-11 January and also gave a lecture at the 'NIH' on 13 January.<br><br>Correspondence <i>re</i> arrangements and the later publication of an article entitled 'Effects of changes in ionic strength on inactivation and threshold in perfused nerve fibres of "Loligo"', with W.K Chandler, published in a supplement to 'The Journal of General Physiology', 49, May 1965. A corrected proof of the paper is included. | 1964-1965 |
| F.6       | 23rd International Congress of Physiological Sciences, Tokyo, Japan, 2-9 September 1965.<br><br>Hodgkin delivered a lecture.<br><br>Press cutting; published volume of abstracts of lectures (mostly in Japanese).  | 1965      |
| F.7-F.11  | Visit to the Soviet Union, 3-21 May 1967.<br><br>In connection with a programme of scientific exchanges agreed between the Royal Society and the USSR Academy of Sciences Hodgkin visited Moscow, Leningrad, Kiev and Tbilisi and gave a series of lectures on perfused nerve fibres.   | 1965-1968 |
| F.7       | Correspondence <i>re</i> arrangements.  | 1965-1967 |
| F.8-F.9   | Correspondence with scientists whom Hodgkin met during his visit.<br><br>2 folders.   | 1967      |
| F.10-F.11 | Correspondence with the Royal Society <i>re</i> its request to Hodgkin to write a report on the visit.<br><br>2 folders.  | 1967-1968 |

**Visits and conferences**

- F.12-F.13                      Visit to the USA, 15-22 January 1968.                      1967-1968
- Hodgkin delivered the first Hester Adrian Memorial Lecture, Rockefeller University, New York, USA, 17 January. The lecture was entitled 'The Relation between Electrical and Mechanical Events in Muscle'. He also visited other medical institutions and gave an informal talk at Cornell University Medical College on 18 January.
- Correspondence chiefly *re* arrangements for the lecture and the other visits.
- 2 folders.
- F.14                              Conference on ion flow in nerve membranes, Alabama, USA, 5-9 April 1971.                      1970-1971
- The conference was under the auspices of the University of Alabama.
- Brief correspondence etc *re* arrangements and arising.
- F.15                              25th International Congress of Physiological Sciences, Munich, Germany, 25-31 July 1971.                      1969, 1971
- Brief correspondence *re* initial plans for the congress and arrangements.
- F.16-F.18                      Visit to China, 20-30 May 1972.                      1972
- Hodgkin was a member of a Royal Society delegation whose other members were Sir Kingsley Dunham and Sir David Martin. The delegation visited the Peking National University and scientific institutes of the Academia Sinica, assessing the prospects of scientific exchanges between the UK and China.
- F.16                              Typescript reports of visits to scientific establishments and typescript trip diary, all by Hodgkin.
- F.17                              Royal Society report on the visit and photographs taken during the trip.
- The photographs show Hodgkin meeting Chinese hosts during various visits.

Visits and conferences

- F.18                      9pp manuscript draft of speech or article entitled 'Initial interest in nerve conduction'.  
  
                              Inscribed 'from ?China file' on first page.
- F.19                      Harden Conference on Neurobiology, Wye College, Kent,                      1971  
                              ?1972.  
  
                              Brief correspondence *re* early arrangements.
- F.20                      'Light and sight' symposium, Amsterdam, 2-3 May 1973.                      1973  
  
                              A joint United Kingdom/Netherlands symposium celebrating cultural contributions by the two countries. Hodgkin appears to have attended in his capacity as President of the Royal Society.  
  
                              List of participants and information.
- F.21                      Visit to the Agricultural Research Council's Institute for                      1974  
                              Research on Animal Diseases, Compton, [?] June, 1974.  
  
                              Hodgkin was Guest of Honour on the Institute's first open day and made a speech.  
  
                              Brief correspondence, chiefly arising from the open day.
- F.22-F.23                European Molecular Biology Organisation: workshop on                      1974  
                              'Quantitive Concepts in Neurophysiology', Max-Planck-Institut für biologische Kybernetik, Tübingen, Germany, 2-6 September 1974.  
  
                              Hodgkin delivered a lecture entitled 'Analysis and Reconstruction of the Electrical Responses of Turtle Cones' and chaired a session on invertebrate vision.  
  
                              Correspondence etc *re* arrangements.  
  
                              2 folders.

**Visits and conferences**

- |           |   |           |
|-----------|---|-----------|
| F.24      | <p>Opening ceremony for the new headquarters of the Royal Meteorological Society, Bracknell, 26 September 1974.</p> <p>Hodgkin, as President of the Royal Society, laid the foundation stone and made a speech.</p> <p>Correspondence <i>re</i> arrangements and typescript draft of Hodgkin's speech.</p>  | 1974      |
| F.25-F.26 | <p>Visit to Australia, 12-18 October 1974.</p> <p>Hodgkin, as President of the Royal Society, accepted an invitation to the inauguration of the Anglo-Australian Telescope at Siding Spring Observatory, New South Wales, on 16th October. He also made a trip to the Snowy Mountains and visited the Medical School at the National University of Australia, Canberra.</p> <p>Correspondence etc <i>re</i> arrangements and arising.</p> <p>2 folders.</p> | 1974      |
| F.27-F.31 | <p>26th International Congress of Physiological Sciences, New Delhi, India, 20-26 October 1974.</p> <p>Hodgkin gave a lecture entitled 'Recent work on visual mechanisms' and chaired a session. He flew to India immediately after concluding his Australian visit (see F.25-F.26).</p> <p>Correspondence mostly <i>re</i> arrangements.</p> <p>4 folders.</p>   | 1972-1974 |
| F.32      | <p>Visit to Ireland, 10-11 February 1975.</p> <p>Hodgkin made the visit in his capacity as President of the Royal Society and was the guest of the President of the Royal Irish Academy.</p>  | 1974-1975 |

### Visits and conferences

- F.33 'Virtual Mechanisms', British Photobiology Symposium, University of East Anglia, Norwich, 10-11 April 1975. 1974-1975
- Hodgkin was only present on 11 April. His paper 'Reconstruction of electrical responses of turtle cones', with D.A. Baylor and T.D. Lamb, was delivered on 10 April.
- Correspondence etc *re* arrangements.
- F.34-F.37 Visit to the USA and Canada, 23 May-10 June 1975. 1974-1975
- The main purpose of Hodgkin's trip was to attend, as guest of honour, the annual meeting of the Royal Society of Canada, Edmonton, Alberta, 2-4 June, where he gave a lecture on 'Electrical analysis of light reception in the turtle's retina'. He then attended part of the Cold Spring Harbour 40th Symposium on Quantitative Biology (entitled 'The Synapse'), New York, 3-10 June and chaired a session. Before travelling to Edmonton, Hodgkin visited scientific colleagues in California and gave a seminar at Stanford University Medical Center on May 29.
- Correspondence etc chiefly *re* arrangements.
- 4 folders.
- F.38 'Postsynaptic Actions of Neurotransmitters', Sir Henry Dale Centennial Symposium, Babbage Lecture Theatre, Cambridge, 17-19 September 1975. 1975
- Letter of invitation and reply.
- Hodgkin indicated that he wished to attend.
- F.39-F.41 Visit to Kenya, 4-20 December 1975. 1975-1978
- Following an invitation from the Governing Board of the International Centre for Insect Physiology and Ecology, Hodgkin visited the ICIPE centre in Nairobi to view its work, to hold discussions with its scientists and to deliver a lecture. He also travelled to other parts of Kenya, including Lakes Naivasha and Rudolf, the latter trip in the company of Richard Leakey, Director of the Kenya National Museum. He made a report on the whole visit to the Royal Society.

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### Visits and conferences

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See G.228-G.234 for further correspondence and papers relating to this visit.

- F.39                      6pp incomplete manuscript diary of the trip and later typescript draft of the same.  
  
A final typescript version of the diary is in G.228.
- F.40                      Ring-bound notebook used during the Kenya trip.  
  
Mostly in Hodgkin's hand.  
  
Contains diary entries and rough notes from scientific discussions.
- F.41                      Brief correspondence arising from the visit and later correspondence concerning the foundation of the Kenya Academy of Sciences.                      1976-1978
- F.42-F.44                Visit to the USA, 13-26 March 1976.                      1974-1976  
  
Hodgkin was appointed Dunham Lecturer at the Harvard Medical School, Boston, Massachusetts, for 1975-1976. He delivered a series of three lectures under the title 'The Initiation and Conduction of Impulses in the Nervous System'.  
  
Correspondence chiefly *re* arrangements, with abstracts of the lectures.  
  
3 folders.
- F.45-F.49                Visit to Iran, 15-22 May 1976.                      1975-1977  
  
Hodgkin and Lord Todd, President of the Royal Society, visited Teheran to attend a meeting concerning the newly established Imperial Academy of Sciences of Iran. He also travelled to other parts of Iran for sightseeing.
- F.45-F.46                Correspondence *re* arrangements and arising.                      1975-1977  
  
2 folders.

**Visits and conferences**

- F.47-F.49                      Various papers providing background information for the visit.  
  
3 folders.
- F.50                              International Symposium on 'Photoreception' (sponsored by the Rank Prize Funds), Royal Society, London, 2-3 September 1976.                      1975-1976  
  
Hodgkin chaired a session.  
  
Correspondence *re* arrangements and arising.
- F.51                              Visit to the USA, 28 February-5 March 1977.                      1969-1970,  
1976-1977  
  
Hodgkin was appointed Murlin Lecturer at the University of Rochester, New York, giving a lecture entitled 'Electrical analysis of light reception in the retina'. He also attended a number of social engagements at the university.  
  
Correspondence *re* arrangements. Included is correspondence concerning an earlier invitation to be Murlin Lecturer.
- F.52-F.55                      Round Table Symposium on 'Transduction and distal mechanisms of coding' at the 27th International Congress of Physiological Sciences, Paris, 18-23 July 1977.                      1976-1977  
  
Hodgkin chaired the symposium.  
  
Correspondence etc *re* arrangements.  
  
4 folders.
- F.56                              28th International Congress of Physiological Sciences, Budapest, Hungary, 13-19 July 1980.                      1980  
  
Conference programme.  
  
There is no definite evidence of Hodgkin's participation.

**Visits and conferences**

- |           |   |                    |
|-----------|---|--------------------|
| F.57-F.58 | 8th International Biophysics Congress, Bristol, 29 July-4 August 1984.<br><br>Hodgkin chaired the Symposium on Photo and Auditory Receptors.<br><br>Correspondence etc chiefly <i>re</i> arrangements.<br><br>2 folders.  | 1983-1984          |
| F.58A     | Unidentified conference, September 1985.<br><br>Manuscript draft, with typescript revised version, entitled 'Ionic precursors in phototransduction', with P.A. McNaughton and B.J. Nunn. The date '12 September 1985' is inscribed on the drafts.<br><br>Included is a page of manuscript data headed '1 May 1985'. | 1985               |
| F.59-F.61 | Correspondence etc concerning conferences which Hodgkin did not attend.<br><br>3 folders.   | 1971-1984,<br>1998 |

**SECTION G                      SOCIETIES AND ORGANISATIONS, G.1-G.237                      1938-1989**

- G.1-G.7                      CAMBRIDGE GRADUATES' SCIENCE CLUB
- G.8-G.13                      GEORGE HENRY LEWES STUDENTSHIP FUND
- G.14                      GRESHAM'S SCHOOL
- G.15-G.25                      LEVERHULME RESEARCH AWARDS ADVISORY  
COMMITTEE
- G.26-G.103                      MARINE BIOLOGICAL ASSOCIATION OF THE UNITED  
KINGDOM (MBA)
- G.104-G.120                      MEDICAL RESEARCH COUNCIL (MRC)
- G.121-G.132                      NUFFIELD FOUNDATION
- G.133-G.148                      PHYSIOLOGICAL SOCIETY
- G.149-G.151                      ROYAL COMMISSION ON MEDICAL EVIDENCE
- G.152-G.237                      ROYAL SOCIETY

**Societies and organisations**

G.1-G.7	CAMBRIDGE GRADUATES' SCIENCE CLUB	1938-1960
	Hodgkin was elected a member in 1947. The Club included scientists such as E.V Appleton, E.D. Adrian and G.I. Taylor.	
G.1-G.5	Contents of a file inscribed 'CGSC - lectures, letters, attendance'.	1938-1952
G.1-G.2	Papers and correspondence <i>re</i> meetings, lectures and general business.  2 folders.	1938-1952
G.3	'Letters '39-45', bundle stapled together with a piece of paper so inscribed.  Correspondence between various Club members (not including Hodgkin) concerning general business.	1939-1945
G.4	'Letters 1946', bundle stapled together with a piece of paper so entitled.  Correspondence between various Club members (not including Hodgkin) concerning general business.	1946
G.5	'Letters 1947', bundle stapled together  Correspondence between various Club members (including one letter by Hodgkin) <i>re</i> the annual dinner and other matters.	1947



**Societies and organisations**

G.15-G.19	General correspondence, minutes of meetings and other papers.  5 folders.	1977-1979
G.20	'Leverhulme: Emeritus Fellowships', contents of a file so inscribed.  Correspondence and papers <i>re</i> applications.	1977-1978
G.21	'Leverhulme: Fellowships and grants', contents of a file so inscribed.  Correspondence and papers <i>re</i> applications.	1977-1978
G.22	'Leverhulme: European studentships', contents of a file so inscribed.  Papers <i>re</i> applications.	1978
G.23	'Leverhulme: Overseas studentships', contents of a file so inscribed.  Correspondence and papers <i>re</i> applications.	1978
G.24	'Leverhulme: Senior studentships', contents of a file so inscribed.  Correspondence and papers <i>re</i> applications.	1978
G.25	Summaries of shortlisted applications.	1978



**Societies and organisations**

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The correspondence covers a range of matters concerning the activities of the MBA, in particular the running of the Plymouth laboratory.

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|-----------|--|-----------|
| G.36-G.39 | 1959-1967.<br>4 folders.   |           |
| G.40-G.45 | 1968-1973.<br>6 folders.   |           |
| G.46-G.50 | 1974-1976.<br>5 folders.   |           |
| G.51-G.52 | 1977-1984.<br>2 folders.   |           |
| G.53      | 'Dr J.E. Smith FRS', contents of a separate file so inscribed.<br><br>Correspondence etc relating to Smith's tenure of the post of Director of the MBA's Plymouth laboratory.      | 1964-1975 |
| G.54-G.55 | Contents of a separate file concerning the vacant post of Director of the Laboratory of the MBA, Plymouth.<br><br>Papers (photocopies), chiefly curricula vitae.<br><br>2 folders. | 1973      |
| G.56-G.57 | Correspondence, with minutes of meetings etc, contents of a file.<br><br><i>Re</i> general business.<br><br>2 folders.   | 1966-1977 |

**Societies and organisations**

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|-----------|--|-----------|
| G.58-G.68 | <p>'West Hoe site', contents of 3 files so inscribed.</p> <p>Papers and correspondence relating to a proposed joint laboratory development at this site in Plymouth between the MBA and the Natural Environment Research Council (NERC).</p> <p>Included are minutes of meetings and various reports.</p> <p>11 folders.</p> | 1968-1972 |
| G.69-G.71 | <p>Correspondence etc <i>re</i> possible arrangements regarding research between the NERC, the Science Research Council and the MBA; and general matters.</p> <p>3 folders.</p>  | 1974-1976 |
| G.72      | <p>'Squid film', contents of a file so inscribed.</p> <p>The film, made with Hodgkin's assistance [? in 1976], was entitled 'The Squid and its Giant Nerve Fibre'.</p> <p>Letter to Hodgkin with draft script synopsis; later correspondence arising.</p>  | 1974-1977 |
| G.73-G.77 | <p>'MBA current. Grant-aided status etc', contents of a file so inscribed.</p> <p>Correspondence and papers concerning the status of grant-aided bodies in NERC (with reference to the MBA) and related matters.</p> <p>5 folders.</p>   | 1975      |
| G.78-G.80 | <p>'MBA applications to DFG and CNRS', contents of a file so inscribed.</p> <p>Correspondence <i>re</i> applications by the MBA to the Centre National de la Recherche Scientifique (CNRS), France, and the Deutsche Forschungsgemeinschaft (DFG), West Germany, for financial support.</p> <p>3 folders.</p>                | 1975-1977 |

**Societies and organisations**

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|--------------------|--|--------------------|
| G.81-G.103         | MBA Council papers.<br><br>Minutes of meetings, reports, memoranda etc. with related correspondence.   | 1969-1980,<br>1987 |
| G.81-G.91          | 1969-1973.<br><br>11 folders.  |                    |
| G.92-G.103         | 1974-1980, 1987.<br><br>12 folders.  |                    |
| <b>G.104-G.120</b> | <b>MEDICAL RESEARCH COUNCIL (MRC)</b><br><br>Hodgkin was a Member of the Council, 1959-1963.   | <b>1960-1978</b>   |
| G.104-G.114        | Correspondence and papers <i>re</i> Hodgkin's refereeing of research grant applications to the MRC.<br><br>11 folders.   | 1960-1966          |
| G.115-G.116        | Correspondence <i>re</i> Hodgkin's assistance in assessing applications (in the field of physiology and cell biophysics) to the MRC's Training Awards Committee.<br><br>The applications were by research departments for numerical allocations of scholarships.<br><br>2 folders. | 1970               |
| G.117              | 'Appointments and Grants Committee', contents of a file so inscribed.<br><br>Brief correspondence <i>re</i> refereeing project grant applications.   | 1971-1972          |

**Societies and organisations**

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|--------------------|---|------------------|
| G.118-G.120        | <p>'[Ad hoc] MRC Vision Working Party', contents of a file so inscribed.</p> <p>Hodgkin was a member of the Working Party which was set up in 1976 to assess the future research capabilities of the MRC Vision Unit.</p> <p>Correspondence and papers.</p> <p>3 folders.</p> | 1976-1978        |
| <b>G.121-G.132</b> | <b>NUFFIELD FOUNDATION</b>  | <b>1962-1968</b> |
|                    | <p>Hodgkin served on the Biological Scholarships and Bursaries Selection Committee from 1962.</p>   |                  |
| G.121-G.128        | <p>Correspondence and papers <i>re</i> Hodgkin's refereeing of research grant applications.</p> <p>Photocopies of applications are included.</p> <p>8 folders.</p>  | 1962-1968        |
| G.129-G.132        | <p>Further photocopies of grant applications.</p> <p>4 folders.</p>   | 1964             |
| <b>G.133-G.148</b> | <b>PHYSIOLOGICAL SOCIETY</b>  | <b>1951-1979</b> |
|                    | <p>Hodgkin was a member of the Society. He became a member of the Society's Monographs Sub-committee in 1951.</p>   |                  |
| G.133-G.142        | <p>Correspondence etc concerning the Monographs Sub-committee's work on the publication of physiological monographs.</p> <p>10 folders.</p>   | 1951-1961        |

**Societies and organisations**

- |             |   |           |
|-------------|---|-----------|
| G.143-G.147 | Correspondence and papers <i>re</i> the general business of the Society.<br><br>5 folders.  | 1961-1979 |
| G.148       | Correspondence chiefly <i>re</i> Hodgkin's Review Lecture delivered at the Centenary Meeting of the Society, Cambridge, 2-3 July 1976.  | 1975-1976 |
| G.149-G.151 | <b>ROYAL COMMISSION ON MEDICAL EVIDENCE</b><br><br>Hodgkin was one of four representatives of the Physiological Society who gave evidence to the Commission.<br><br>Correspondence etc <i>re</i> the Physiological Society's evidence to the Commission.<br><br>3 folders.  | 1965-1967 |
| G.152-G.237 | <b>ROYAL SOCIETY</b><br><br>Hodgkin was President of The Royal Society, 1970-1975. He was awarded the Copley Medal in 1965.   | 1953-1989 |
| G.152-G.180 | Contents of 3 files labelled 'I', 'II' and 'III'.<br><br>Correspondence and papers <i>re</i> general Royal Society business associated with Hodgkin, and business covering the period of his Presidency. The material covers matters such as conferences, meetings, foreign visits and exchanges, awards, grants, publications and refereeing papers. | 1958-1977 |
| G.152-G.159 | Contents of file 'I', also labelled 'Correspondence 1960-65'.<br><br>8 folders.   | 1958-1966 |

**Societies and organisations**

G.160-G.166	Contents of file 'II', also labelled 'Correspondence 1966-69'.  7 folders.	1961-1977
G.167-G.178	Contents of file 'III', also inscribed 'Correspondence 1970 - [sic]'.  12 folders.	1969-1977
G.179-G.180	'Royal Society - personal', contents of a file so inscribed.  This file was found within file 'III' (see G.167-G.178).  Included is correspondence <i>re</i> Hodgkin's drafting of his Anniversary Address (as incoming President), 30 November 1970; and a typescript draft of the Address (at G.180), with manuscript revisions.  2 folders.	1970-1971
G.181-G.188	'RS copy letters', contents of a file so inscribed.  Correspondence (mostly photocopies) and papers concerning Society business during Hodgkin's term as President.  8 folders.	1970-1977
G.189-G.196	Contents of files relating to the candidatures of various scientists for Fellowship of the Royal Society.	1953-1988
G.189	1953.	
G.190	1967.	
G.191	1967-1968.	
G.192	1967-1970.	

**Societies and organisations**

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|-------------|---|-----------|
| G.193       | 1969.   |           |
| G.194       | 1976.   |           |
| G.195-G.196 | 1983-1988.<br>2 folders.  |           |
| G.197-G.203 | Miscellaneous correspondence etc.<br>Chiefly concerning candidatures for election to Fellowship of the Royal Society; a few letters and papers relate to candidatures for Foreign Membership.<br>7 folders. | 1960-1988 |
| G.204-G.206 | Correspondence and papers <i>re</i> meetings etc of the International Union of Physiological Sciences, contents of an unmarked file.<br>3 folders.  | 1960-1966 |
| G.207-G.213 | Contents of files <i>re</i> candidatures for Royal Society Research Professorships.<br>Correspondence etc.<br>Hodgkin was a member of the Royal Society Research Professorships 'B side' Committee.         | 1964-1969 |
| G.207       | 1964.   |           |
| G.208       | 1964.   |           |
| G.209       | 1967-1969.  |           |
| G.210       | 1969.   |           |

**Societies and organisations**

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|-------------|--|-------------------------|
| G.211-G.213 | Miscellaneous papers and correspondence <i>re</i> the candidatures of various scientists for Research Fellowships.<br><br>3 folders.   | 1964-1965               |
| G.214       | 'Officers' correspondence', contents of a file so inscribed.<br><br>Correspondence between officers of the Royal Society concerning various grant applications for research etc.     | 1970-1971               |
| G.215-G.218 | Papers relating to the running of the Royal Society Club.<br><br>Hodgkin was a member of the Club and President for the year 1973-1974 and, possibly, other years.<br><br>4 folders. | 1961-1962,<br>1971-1985 |
| G.219       | Visit of the Emperor of Japan to the Royal Society, 6 October 1971.<br><br>Brief correspondence with programme etc.  | 1971                    |
| G.220       | Correspondence concerning arrangements for an official portrait of Hodgkin, as President of the Royal Society, and correspondence arising.   | 1974-1978               |
| G.221-G.225 | 'Royal Society Appeal', contents of a file so inscribed.<br><br>Correspondence, chiefly letters requesting donations to the Society's 1974 Appeal and replies.<br><br>5 folders.     | 1974-1975               |
| G.226-G.227 | Anniversary Dinner and Address, 1975, contents of a file.<br><br>See E.130-E.141 for related papers.   | 1975-1976               |
| G.226       | Copies of letters by Hodgkin to various scientists <i>re</i> the drafting of his Anniversary Address.  | 1975-1976               |

**Societies and organisations**

- G.227                      Typescript draft of Hodgkin's Address and corrected proof.
- G.228-G.234              'ICIPE', contents of a file so inscribed.                      1975-1980
- Hodgkin was a member of the British National Committee for the International Centre of Insect Physiology and Ecology.
- Committee papers and correspondence. The correspondence chiefly relates to Hodgkin's visit to the ICIPE Centre in Nairobi, Kenya, December 1975. Included at G.228 is a 17pp typescript by Hodgkin entitled 'Notes on a visit to the International Centre for Insect Physiology and Ecology, Nairobi, and some other places of scientific interest in Kenya. 4th-20th December 1975'.
- 7 folders.
- G.234A                      Correspondence *re* an appointment to a Foulerton Research Professorship.                      1975-1977
- G.235                      Correspondence etc *re* arrangements for Royal Society soirees.                      1976-1978
- Chiefly *re* soirees in June 1977, which included an exhibition to commemorate the Queen's Silver Jubilee, and a Royal Society Jubilee publication.
- Hodgkin was involved in the organisation of the 1977 exhibition and contributed to the Jubilee publication.
- G.236-G.237              Miscellaneous correspondence.                      1960-1989
- Re* general Society business.
- G.236                      1960-1978.
- G.237                      1984-1989.

**SECTION H                      CORRESPONDENCE-H.1-H.158                      1945-1990**

H.1-H.24      'SCIENTIFIC CORRESPONDENCE  
1945-1950'

H.25-H.36      CORRESPONDENCE 1945-1957

H.37-H.93      'OLD LETTERS'

H.94-H.152      'GENERAL FILES'

H.153-H.158      MISCELLANEOUS

**H.1-H.24                      'SCIENTIFIC CORRESPONDENCE 1945-1950'                      1945-1954,  
nd**

A chronological sequence of correspondence with  
colleagues about research, publications, visits etc.

H.1                      1945 February

H.2                      1945 March

H.3                      1945 April, May  
Includes photograph of 'Tess' Rothschild.

H.4                      1945 June  
Includes patent specification.

H.5                      1945 July, October  
Includes undated papers found with 1945 material.

H.6                      1946

H.7                      1947 February - June

**Correspondence**

- |      |   |
|------|---|
| H.8  | 1947 September - December   |
| H.9  | 1948 January, February  |
| H.10 | 1948 March-May  |
| H.11 | 1948 July, August   |
| H.12 | 1948 September  |
| H.13 | 1948 October - December   |
| H.14 | 1949 January - April  |
| H.15 | 1949 June (1)   |
| H.16 | 1949 June (2)<br>Includes 'Report on A.F. Huxley's Qualifications for a Title B Fellowship' by Hodgkin, 10 June 1949. |
| H.17 | 1949 July - September   |
| H.18 | 1949 October - December<br>Includes undated papers found with 1949 material.  |
| H.19 | 1950  |
| H.20 | 1951  |

**Correspondence**

H.21 1952

H.22 1953

H.23 1954

H.24 Nd

Includes manuscript drafts of Hodgkin's letters.

**H.25-H.36**

**CORRESPONDENCE 1945-1957**

**1945-1957,  
nd**

Contents of an untitled folder.

Chronological sequence of scientific correspondence complementary to the preceding. Includes correspondence *re* equipment and supplies.

H.25 1945

H.26 1946 January - March

H.27 1946 April - June

H.28 1946 July - December

Includes undated papers found with 1946 materials.

H.29 1947

H.30 1948 January - March

**Correspondence**

H.31	1948 April - June	
H.32	1948 July - December	
H.33	1949	
H.34	1950	
H.35	1954, 1957	
H.36	Nd	
<b>H.37-H.93</b>	<b>'OLD LETTERS'</b>	<b>1947-1959</b>
	Contents of two box folders so inscribed: alphabetical sequence of correspondence with colleagues about research, publications, visits, equipment, etc.	
H.37	Abbott - Adrian	1950-1959
H.38	Agricultural Research Council See also H.82	1956, 1959
H.39	Baker - Bergman	1954-1959
H.40	Biophysics - Boyd	1953-1959
H.41	Bragg - Brown	1952-1959

**Correspondence**

H.42	Buchtal - Butler	1956-1959
H.43	Caldwell - Causey	1948-1958
H.44	Chadwick - Chase	1950-1956
H.45	Cole, K.S.	1951-1956
H.46	Conway - Cruickshank	1953-1957
H.47	Dainty - Davies	1950-1958
H.48	Dawson, G.D.	1952
H.48A	Delbruck - Dunham	1951-1956
H.49	Eccles, J.C.	1951-1953
H.50	Eggleton - Evans	1952-1956
H.51	Feldberg - Frankenhaeuser	1949-1957
H.52	General Electric Company - Grundfest	1947-1957
H.53	Hall - Hallpike	1953, 1955
H.54	Harris, E.J.	1950-1953

Correspondence

H.55	Harwell - Hilger & Watts Ltd	1951, 1955
H.56	Hill, A.V. and D.K.	1953-1957
H.57	Hope, A.B.	1955
H.58-H.59	Horowicz, P. 2 folders.	1955-1957
H.60	Hoyt - Ilford Ltd	1952-1953
H.61	Jackson - Jung	1947-1955
H.62	Katz, B  Includes draft statement by Hodgkin on Katz's 'outstanding contribution to neurophysiology', July 1950.	1950-1958
H.63	Kavaler - Kernan	1953-1957
H.64	Keynes, R.D.  Includes list of publications.	1951-1956
H.65	Kirschner - Kuwabara	1952-1956
H.66	Leaf - Luttgau	1949-1956
H.67	McCulloch - McLardy	1950-1952

**Correspondence**

H.68	Magoun - Marconi Instruments Ltd	1947-1957
H.69	Martin - Miller	1952-1958
H.70	Mommaerts - Murphy	1955-1958
H.71	Nachmansohn - Nastuk	1952-1958
H.72	National Academy of Sciences	1955
H.73	<i>Nature</i>	1953-1956
H.74	Oster, G.	1952
H.75	Palmer - Paton	1951-1956
H.76	Penguin Science News - Photophone Ltd	1950-1952
H.77	Plymouth - Pringle Includes abstracts of papers by Hodgkin found in alphabetical sequence at 'P'.	1950-1956
H.78	R.C.A. - Russell	1951-1957
H.79	Sato - Seifriz	1950-1955
H.80	Shanes - Sinclair	1949-1958

Correspondence

H.81	Singer Instrument Company Ltd	1948-1955
H.82	Slater, W.K.  Slater was Secretary of the Agricultural Research Council. See also H.2.	1958
H.83	Smith - Spyropoulos  Includes correspondence with Ruskin Spear <i>re</i> portrait of E.D. Adrian, 1953.	1952-1958
H.84	Stampfli, R.	1952-1957
H.85	Steinbach - Szabuniewicz	1950-1958
H.86	Tasaki - Tobias	1950-1959
H.87	Tosteson, D.C.  Includes research report.	1954-1956
H.88	Tozer - Troshin	1949-1959
H.89	Umrath - Vogel	1952-1957
H.90	Wald - Weddell	1950-1955
H.91-H.92	Weidmann, S.  2 folders.	1950-1957
H.93	Weinberg - Woodbury	1950-1955

Correspondence

H.94-H.152                    'GENERAL FILES'                    1954-1969

Contents of box folders so inscribed: an alphabetical sequence of correspondence A-K with colleagues about research, publications, visits, etc . Files L-Z were not found.

H.94                    Abelson - Adair                    1966, nd

H.95                    Adelman, Jr, W.J.                    1964-1965

H.96                    Adrian - Ames                    1960-1968

H.97                    Andersen - Awan                    1962-1967

H.98                    Bachofer - Barlow                    1961-1967

H.99                    Barnes - Baumann                    1965-1968

H.100                    Beigelman - Bennett                    1961-1968

H.101                    Bennett-Clark - Bettenson                    1962-1966

H.102                    Bianchi - Blum                    1965-1968

H.103                    Boden - Botre                    1960-1967

H.104                    Bouckaert - Boyd                    1959-1966

**Correspondence**

H.105	Bragg - Brewer	1963-1967
H.106	Brinley - British Museum	1962-1966
H.107	Britton, H.G.	1960-1968
H.108	Brookhart - Brundrett	1962-1968
H.109	Buchtal - Buxton	1959-1967
H.110	Cadoret - Calvin	1963-1967
H.111	Canberra Conference - Castagnino	1960-1968
H.112	Central Office of Information - Chance	1959-1968
H.113	Chapman - Cimpenu	1963-1968
H.114	Clark - Claude Bernard Symposium	1965-1967
H.115	Cochrane - Cordeau	1960-1968
H.116	Cosslett - Coxon	1961-1966
H.117	Cragg - Currie	1961-1967
H.118	Dainty - Desmedt	1960-1966

**Correspondence**

H.119	Devi - Dun	1961-1967
H.120	Eakin - Edsall	1960-1966
H.121	Eichholtz - Eisenman	1960-1968
H.122	Elbe - Elul	1959-1966
H.123	EMBO - Engler	1962-1966
H.124	Etchevehere - Eyring	1965-1967
H.125	Faber - Fatt	1954-1962, nd
H.126	Federation - Fenn	1961-1969
H.127	Finger - Florey	1959-1968
H.128	Fogg - Foulks	1962-1968
H.129	Frank - Fulton	1959-1965
H.130	Gaddum - Ganong	1957-1964
H.131	Gelfan - Glynn	1960-1967
H.132	George, E.P.	1959-1967

**Correspondence**

H.133	Goldman - Gotte	1959-1965
H.134	Graduate Science Club - Grenell	1960-1967
H.135	Griffin - Grossberg	1960-1965
H.136	Grundfest - Guthe	1954-1969
H.137	Hackett - Hamburg	1962-1967
H.138	Hampel - Hartline	1959-1965
H.139	Heath - Hendrix	1960-1968
H.140	Hickman - Hinke	1962-1968
H.141	Hoar - Horridge	1959-1967
H.142	Hoskin - Hyman	1958-1968
H.143	l'Anson - Imai	1956-1969
H.144	Ing - Izquierdo	1961-1967
H.145	Jabbur - Jardetzky	1960-1966
H.146	Jena - Johns	1959-1966

**Correspondence**

H.147	Johnson - Joy	1960-1968
H.148	Kaldor - Katsuki	1962-1967
H.149	Keeton - Kersey	1960-1968
H.150	Kikuchi - Kleinzeller	1959-1966
H.151	Koelle - Koffler	1960-1966
H.152	Kormondy - Kunov	1960-1967
<b>H.153-H.158</b>	<b>MISCELLANEOUS</b>	<b>1947-1990, nd</b>
H.153	Correspondence and papers <i>re</i> visit to the UK of R.D. Evans (MIT) and J.G. Hamilton (Berkeley).  The visit was arranged by the Medical Research Council. The correspondent in Cambridge is E.D. Adrian.	1947
H.154	Correspondence <i>re</i> publications, research etc.	1958-1974
H.155	Correspondence <i>re</i> history of science, publication etc.	1983, 1990, nd
H.156-H.157	'File under Stampfli Keep'  Contents of folder so inscribed: correspondence and papers <i>re</i> biographical article about A.F. Huxley written by R. Stampfli in 1970. At H.157 is letter from Hodgkin to Stampfli with Stampfli's reply, April 1947.  2 folders.	1947-1974

**Correspondence**

H.158

'ALH-LETT.DOC'

1947-1952

Contents of envelope so inscribed: photocopies of Hodgkin's correspondence, 1947-1952, with some wordprocessed copies.

Hodgkin's correspondents are K.S. Cole and V. Rothschild.

**SECTION J**                      **NON-TEXTUAL MATERIAL, J.1-J.121**                      **1937-1972,  
nd**

- J.1-J.82              PHOTOGRAPHIC FILMS
- J.83-J.104          PHOTOGRAPHIC SLIDES
- J.105-J.118        PHOTOGRAPHIC PRINTS
- J.119-J.121        OUTSIZE MATERIAL

**J.1-J.82**                      **PHOTOGRAPHIC FILMS**                      **1937-1963**

Safety Films 35 m/m . Many identified either by strips of paper or ink inscriptions on the film itself or both. As well as container.

Card film boxes of single film, metal film cansisters with from one to films, card.

Some films are composed of more than one piece and have been stapled together.

- J.1                      Card film canister inscribed on lid 'Nov 13th Axon 1. Growth of LR Refractory P'.                      1937  
  
1 film.
- J.2                      Card film canister inscribed on lid 'Nov 13th. Polarisability during spike'.                      1937  
  
1 film.
- J.3                      Metal Safety film box labelled on lid 'Tuesday Nov 23rd Supernormal Phase Reproduction Development of LR'                      1937  
  
2 films.
- J.4                      Card film canister inscribed on lid 'Monday December 6th. Polarisability during spike...'                      1937  
  
1 film.

**Non-textual material**

- |      |  |      |
|------|--|------|
| J.5  | Metal Safety film box labelled on lid 'Tuesday Dec 7[...]<br>2 films.  | 1937 |
| J.6  | Metal Safety film box labelled on lid 'Wednesday<br>December 8 [...]<br>3 films.   | 1937 |
| J.7  | Metal Safety film box labelled on lid 'December 9 [...]<br>1 film.<br>Includes loose label inside box 'Supernormal Phase.<br>Refractory Period'. | 1937 |
| J.8  | Metal Safety film box labelled on lid 'Friday Dec 10.<br>Development [...]<br>5 films.   | 1937 |
| J.9  | Metal Safety film box labelled on lid 'Wed Dec 15 + Dec<br>22'<br>4 films.<br>Box also contains manuscript notes and label.                      | 1937 |
| J.10 | Metal Safety film box labelled on lid 'Friday Dec 17 [...]<br>5 films.<br>Box also contains manuscript notes.                                    | 1937 |
| J.11 | Metal Safety film box labelled on lid 'Sat Dec 18 [...]<br>2 films.  | 1937 |

**Non-textual material**

- |      |  |      |
|------|--|------|
| F.12 | Metal Safety film box labelled on lid 'Ref P Control [...]<br>Dec 21'      | 1937 |
|      | 3 films  |      |
| J.13 | Metal Safety film box labelled on lid 'Jan 4 [...]                         | 1938 |
|      | 3 films.   |      |
|      | Box also contains manuscript notes.  |      |
| J.14 | Metal Safety film box labelled on lid 'Jan 12th Abs Ref<br>[...]           | 1938 |
|      | 2 films.   |      |
|      | Box also contains manuscript notes.  |      |
| J.15 | Metal Safety film box labelled on lid 'Jan 14'                             | 1938 |
|      | 1 film.  |      |
|      | Box also contains manuscript notes.  |      |
| J.16 | Metal Safety film box labelled on lid 'Jan 19 [...]                        | 1938 |
|      | 2 films.   |      |
|      | Box also contains manuscript notes.  |      |
| J.17 | Metal Safety film box labelled on lid 'Jan 21 [...]<br>Refractory P. Good' | 1938 |
|      | 2 films.   |      |
|      | Box also contains manuscript notes.  |      |

**Non-textual material**

- |      |  |      |
|------|--|------|
| J.18 | Metal Safety film box labelled on lid 'Jan 25 LR and Excitability' [...]'<br><br>2 films.<br><br>Box also contains manuscript notes. | 1938 |
| J.19 | Card film canister inscribed on lid 'Jan 27 play + excit'<br><br>1 film.   | 1938 |
| J.20 | Metal Safety film box labelled on lid 'LR + Excit. 2 shocks good. Jan 28 1938'.<br><br>2 films.                                      | 1938 |
| J.21 | Metal Safety film box labelled on lid 'Feb 1st LR [...]'<br><br>2 films.<br><br>Box also contains manuscript notes.                  | 1938 |
| J.22 | Metal Safety film box labelled on lid 'Feb 2 [...]'<br><br>5 films.  | 1938 |
| J.23 | Card film canister inscribed on lid 'Feb 6th 1938'<br><br>1 film.  | 1938 |
| J.24 | Card film canister inscribed on lid 'Feb 10th [...] Calibrat.'<br><br>1 film.  | 1938 |
| J.25 | Metal Safety film box labelled on lid 'May 10 Conduction rate'<br><br>1 film.  | 1938 |

**Non-textual material**

- |      |   |      |
|------|---|------|
| J.26 | Metal Safety film box labelled on lid 'May 11 Axons 1'<br><br>2 films.  | 1938 |
| J.27 | Metal Safety film box labelled on lid 'May 12'<br><br>1 film.   | 1938 |
| J.28 | Metal Safety film box labelled on lid 'May 15 1938<br>Conduction Rate'<br><br>2 films.<br><br>Box also contains manuscript notes. | 1938 |
| J.29 | Metal Safety film box labelled on lid 'May 16 Conduction<br>rates'<br><br>4 films.<br><br>Box also contains manuscript notes.     | 1938 |
| J.30 | Metal Safety film box labelled on lid ' May 19 [...]<br><br>2 films.<br><br>Box also contains manuscript notes.                   | 1938 |
| J.31 | Metal Safety film box labelled on lid 'May 21'<br><br>1 film.<br><br>Box also contains manuscript notes.                          | 1938 |
| J.32 | Card film canister inscribed on lid 'May 21'<br><br>1 film.   | 1938 |

**Non-textual material**

- |      |   |      |
|------|---|------|
| J.33 | Metal Safety film box labelled on lid 'May 23'<br><br>1 film.<br><br>Box also contains manuscript notes.            | 1938 |
| J.34 | Metal Safety film box labelled on lid 'May 24'<br><br>1 film.<br><br>Box also contains manuscript notes.            | 1938 |
| J.35 | Metal Safety film box labelled on lid 'May 25 1938 [...]'<br><br>1 film.<br><br>Box also contains manuscript notes. | 1938 |
| J.36 | Card box inscribed on lid 'May 26 1938'<br><br>1 film.<br><br>Box also contains manuscript notes.                   | 1938 |
| J.37 | Metal Safety film box labelled on lid 'Friday May 27'<br><br>1 film.  | 1938 |
| J.38 | Metal Safety film box labelled on lid 'May 30'<br><br>4 films.<br><br>Box also contains manuscript notes.           | 1938 |
| J.39 | Card film canister inscribed on lid 'Squid June 17 Axon 1'<br><br>1 film.   | 1938 |

**Non-textual material**

J.40	Card film canister inscribed on lid 'June 17 Axon 2' 1 film.	1938
J.41	Card film canister inscribed on lid 'June 18 Impedance [...]' 1 film.	1938
J.42	Card film canister inscribed on lid 'June 18' 1 film.	1938
J.43	Card film canister inscribed on lid 'June 20th Monday' 1 film.	1938
J.44	Card film canister inscribed on lid 'Tuesday June 21st' 1 film.	1938
J.45	Card film canister inscribed on lid 'June 25 Axon II Reel I Beginning' 1 film.	1938
J.46	Card film canister inscribed on lid 'June 25 Axon II End Reel 2' 1 film.	1938
J.47	Card film canister inscribed on lid 'June 25' 1 film.	1938
J.48	Card film canister inscribed on lid 'June 27' 1 film.	1938

**Non-textual material**

J.49	Card box inscribed on lid 'Nov 17 1938' 2 films. Box also contains manuscript notes.	1938
J.50	Card box inscribed on lid 'Feb 15 Alcohol + [...] 1939' 2 films.	1939
J.51	Card film canister inscribed on lid '22.5.39' 1 film.	1939
J.52	Card film canister inscribed on lid '31.5.39' 1 film.	1939
J.53	Card film canister inscribed on lid '6.6.39' 2 films.	1939
J.54	Card film canister inscribed on lid '7.6.39 Lobster' 1 film.	1939
J.55	Card film canister inscribed on lid '13.6.39' 1 film.	1939
J.56	Card film canister inscribed on lid '14.6.39. Two parts' 2 films.	1939
J.57	Card film canister inscribed on lid '20.6.39 Reel I' 1 film.	1939

**Non-textual material**

J.58	Card film canister inscribed on lid '20.6.39 Reel II' 1 film.	1939
J.59	Card film canister inscribed on lid '20.6.39 Reel III'	1939
J.60	Card film canister inscribed on lid 'June 21. 39' 1 film.	1939
J.61	Card film canister inscribed on lid 'June 22 1939' 2 films.	1939
J.62	Card film canister inscribed on lid 'June 29 [...]' 1 film.	1939
J.63	Card film canister inscribed on lid 'June 29th 1939' 1 film.	1969
J.64	Card film canister inscribed on lid 'Aug 15 1939' 2 films.	1939
J.65	Card film canister inscribed on lid 'Aug 16 1939' 1 film.	1939
J.66	Card film canister inscribed on lid 'Aug 23. 1939' 1 film.	1939

**Non-textual material**

- |      |  |            |
|------|--|------------|
| J.67 | Card film canister inscribed on bottom 'Aug 23rd'<br>1 film.   | 1939       |
| J.68 | Card film canister inscribed on lid 'Aug 24 calibrations<br>Aug 25'<br>2 films.                        | 1939       |
| J.69 | Card box inscribed on lid 'Dec 20 [...] 1939'<br>3 films.<br>Box also contains manuscript notes.       | 1939       |
| J.70 | Card box inscribed on lid 'Jan 18 Spare RP'<br>2 films.  | late 1930s |
| J.71 | Card film canister inscribed on lid '[?Thursday] Nov 12th.<br>Refractory period LR'<br>1 film.         | late 1930s |
| J.72 | Card film canister illegible inscription on lid<br>1 film.<br>Canister also contains manuscript notes. | late 1930s |
| J.73 | Card film canister no inscription<br>1 film.<br>Canister also contains manuscript notes.               | late 1930s |
| J.74 | Card box inscribed on lid 'May 1947 [...]'<br>3 films.   | 1947       |

**Non-textual material**

- |      |   |            |
|------|---|------------|
| J.75 | Card box inscribed on lid 'Films Hodgkin sept 1952'<br><br>10 films.  | 1952       |
| J.76 | Card box inscribed on lid 'Alan. Extra set of Film copies. Voltage Clamp 1954 and original films for Aug & Sept 1954'<br><br>32 films.  | 1954       |
| J.77 | Card box inscribed on lid 'Alan. FILMS Oct 1954 ca voltage clamp'<br><br>22 films.  | 1954       |
| J.78 | Card box inscribed on lid 'FILMS. RECORDS FOR PRINTS. Autumn 1954 After effects'<br><br>14 films.<br><br>Box also contains manuscript notes dated December 1961.  | 1954, 1961 |
| J.79 | Card box inscribed on lid 'FILMS 1960-61', with earlier inscription 'Instruments A.L. Hodgkin Physiological Laboratory Cambridge'<br><br>33 films.<br><br>Box also contains photographic negatives, envelopes of photographic enlargements of giant-nerve fibre of squid and other photographic material, and manuscript notes. | 1960-1961  |
| J.80 | Card box labelled on lid 'FILMS Oct-Dec 1961'<br><br>23 films.<br><br>Box also contains envelopes of photographic prints.   | 1961       |

**Non-textual material**

J.81	Card box inscribed on lid 'PFB + HM Oct 15-Nov 8 1962' and 'All to be kept A.L.H.'	1962
	7 films in metal canisters.	
	Films dated between 16 October-8 November.	
J.82	Card box labelled on lid 'ALH + HM November 19 1962-January 4 1963'	1962-1963
	19 films, 10 in metal canisters.	
	Films in canisters dated between 19 November-13 December 1962.	
J.83-J.104	<b>PHOTOGRAPHIC SLIDES</b>	<b>1939-1951, nd</b>
	A few used to illustrate identified lectures, cross-referenced where possible.	
J.83	Card box of plate glass slides inscribed on side of lid '1939'	1939
J.84	Card box of plate glass slides inscribed on side of lid '1946 Carcinus'	1946
J.85	Larger format card box of plate glass slides inscribed on side of lid 'Repet 1947'	1947
J.86	Card box of plate glass slides inscribed on lid 'Mr Hodgkin. 28/4/47'	1947
J.87	Card box of plate glass slides inscribed on side of lid 'Paris 1948'	1948

**Non-textual material**

- |      |   |         |
|------|---|---------|
| J.88 | Card box of plate glass slides inscribed on side of lid '[U<br>C] Electron Microscope 1948'<br><br>Includes some manuscript notes on index cards. | 1948    |
| J.89 | Card box of plate glass slides inscribed on side of lid<br>'Muscle etc 1948'  | 1948    |
| J.90 | Card box of plate glass slides inscribed on side of lid<br>'1948 Squid Na+'   | 1948    |
| J.91 | Card box of plate glass slides inscribed on side of lid<br>'1948 Unpublished Theory'  | 1948    |
| J.92 | Card box of plate glass slides. No inscription<br><br>Two slides dated 1948.  | ca 1948 |
| J.93 | Card box of plate glass slides inscribed on side of lid<br>'1949 Paris'   | 1949    |
| J.94 | Card box of plate glass slides inscribed on side of lid<br>'1949 Muscle'  | 1949    |
| J.95 | Card box of plate glass slides inscribed on side of lid<br>'1950 Copenhagen'<br><br>See also E.3.   | 1950    |
| J.96 | Larger format card box of plate glass slides inscribed on<br>side of lid '1950'   | 1950    |
| J.97 | Card box of plate glass slides inscribed on side of lid 'Mr<br>Hodgkin 1950'  | 1950    |

**Non-textual material**

J.98	Card box of plate glass slides inscribed on side of lid 'Mr Hodgkin Jan 1951' and 'Review 1951'	1951
J.99	Larger format card box of plate glass slides inscribed on lid 'Mr Hodgkin Feb 1951'	1951
J.100	Card box of plate glass slides inscribed on side of lid '1951 Mobility'	1951
J.101-J.103	Slides from Physiological Laboratory Cambridge  Numbered slides (5cm sq), mostly in sets of sequences, identified as from the Physiological Laboratory Cambridge.  3 boxes.	Nd
J.104	Miscellaneous slides.  5cm sq. Unidentified.  1 box.	Nd
J.105-J.118	<b>PHOTOGRAPHIC PRINTS</b>  Photographic prints, mostly found in inscribed envelopes.	1971-1972, nd
J.105	'20 Sept '71 Biomac H-cell Feed back'	1971
J.106	'30 Oct '71 H-bipolar Noise [down arrow] Surround antagonism'	1971
J.107	'12 Jan '72 Current'	1972

**Non-textual material**

J.108	'15 Mar '72 Rod'	1972
J.109	'Mr Starling 18 March' Includes Hodgkin's requests for prints.	1972
J.110	'30 Mar '72 Isolated Red Cone'	1972
J.111	'25 April '72 Green Cone V-Log I's'	1972
J.112	'Prints of Kinetic Univariance $\sigma$ 29 April 1972'	1972
J.113	'13 May 72 Gang cell prints (also cone)'	1972
J.114	'15 May '72 Biomac prints'	1972
J.115	'25 May 1972 Biomac Rod'	1972
J.116	26 Aug Depol'ing BIP'	Nd
J.117	'27 Aug Hyper pol'ing BIP'	Nd
J.118	Miscellaneous requests for prints from Mr Starling and figures on tracing paper.	Nd

**Non-textual material**

**J.119-J.121**

**OUTSIZE MATERIAL**

**Various  
dates**

Contents of artists' portfolios, chiefly mounted figures for illustrations for published articles.

Retained as also includes significant manuscript and photographic material.

Little of the material is dated.

J.119

Dark green portfolio

Includes figures and photographs for publications; photographs and painting of squid; photographs of Hodgkin; copy of letter to R. Henderson returning illustrative material, February 1982.

J.120

Blue portfolio

Includes figures and photographs for publications.

J.121

Brown portfolio inscribed on cover 'RETINA [...]'

Includes figures and photographs for publications; data 1976.

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