

Catalogue of the papers and correspondence of

Ralph Ambrose Kekwick FRS

(1908-2000)

by Timothy E. Powell and Peter Harper
NCUACS catalogue no. 118/4/03

Title: Catalogue of the papers and correspondence of Ralph Ambrose Kekwick FRS (1908-2000), biophysicist

Compiled by: Timothy E. Powell and Peter Harper

Description level: Fonds

Date of material: 1920-2002

Extent of material: 21 boxes, *ca* 430 items

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Mrs Elizabeth Till, daughter of R.A. Kekwick, in 2000 and 2002.

OUTLINE OF THE CAREER OF RALPH AMBROSE KEKWICK

Ralph Ambrose Kekwick was born on 11 November 1908 in Leytonstone in Essex. He was educated at the Leyton County High School for Boys and University College London, from where he graduated with First Class Honours B.Sc. in Chemistry in 1928. He remained at University College to undertake research, initially in physical chemistry under F.G. Donnan, then moving to study physical biochemistry under J.C. Drummond during which time he worked in close association with R.K. Cannan. In 1930 he was awarded a Bayliss-Sterling Memorial Scholarship and was also appointed Demonstrator in Biochemistry at University College. In 1931-1933 Kekwick held a Commonwealth Fund Fellowship. This enabled him to spend two years in the United States, again studying with R.K. Cannan, who had by then moved to the New York University College of Medicine, before moving on to Princeton University and the Marine Biological Laboratories at Woods Hole, Massachusetts for research on the effects of anaerobic conditions on permeability.

Kekwick returned to the UK in 1933 to take up a post as Lecturer at University College London. In 1935 Kekwick travelled to Sweden as a Rockefeller Foundation Fellow to work under T. Svedberg at the Institute of Physical Chemistry, University of Uppsala. This proved to be a key moment in Kekwick's career as he was introduced to the ultracentrifuge and electrophoresis apparatus, both developed at Uppsala. The ultracentrifuge, designed by Svedberg and colleagues, was used for the study of protein molecules in blood plasma. It separated out protein molecules to leave a pure protein preparation, for example plasma albumin and globulins while the rate of sedimentation could be measured to give a sedimentation co-efficient (a characteristic property of the protein). This allowed the molecular weight to be calculated and the proteins identified. The electrophoresis apparatus, designed by A.W.K. Tiselius, worked through the measurement of the negative electrical charge of proteins. As the size of the charge varies according to the protein's chemical structure, when an electrical charge was passed through a solution, proteins with a greater charge migrated towards the positive pole more rapidly. These techniques contributed to the general understanding of the part the proteins played in biological activity, the importance of fibrinogen in blood clotting, the role of gamma globulin in combating infection and the role of albumin in maintaining the correct

volume of blood. It also allowed for the diagnosis of medical conditions in which ratios of proteins in blood plasma were abnormal.

Following this visit the Lister Institute for Preventive Medicine in London acquired an ultracentrifuge and in 1937 Kekwick was awarded a research grant from the Medical Research Council for ultracentrifuge and electrophoretic investigations on pathological and immune sera, which he undertook at the Lister Institute. He was formally taken on the Scientific Staff of the Institute in 1940. During the Second World War Kekwick remained at the Lister Institute undertaking experimental and production work for the Medical Research Council's Blood Transfusion Research Committee. With A.S. McFarlane he devised a process to clarify outdated blood plasma so as to render it suitable for transfusion. He was appointed Head of the Lister's Biophysics Division in 1943 and he and his team worked on methods of freeze-drying plasma and then of separating out proteins in blood plasma.

At the end of the war the MRC established a Blood Products Laboratory at the Lister Institute's station at Elstree, Hertfordshire. Kekwick worked closely with this Laboratory, acting as an adviser to it, but continued his own research at his laboratory in London. He continued research on blood plasma analysis with ultracentrifuge and electrophoretic techniques and working on practical improvements in blood transfusion processes. In the 1950s he developed a method of fractionating out a fibrinogen fraction rich in Factor VIII, the anti-haemophilic globulin. This led to the first clinical use of this Factor in treating haemophilia in 1957 and the establishment of a national laboratory dedicated to plasma fractionation. Kekwick's association with University College London also continued after the war. In 1954 he was appointed Reader in Chemical Biophysics and appointed to a personal Chair in Biophysics in 1966 (Emeritus and Fellow 1971).

In addition to his pioneering work in blood plasma research, Kekwick contributed to developments in haematology through his service on a number of Medical Research Council committees concerned with blood transfusion, haemophilia and hypogammaglobulinaemia. He also served on the Committee of the British Biophysical Society 1967-1970. Kekwick was elected to the Fellowship of the Royal Society in 1966.

Kekwick married twice; in 1933 to Barbara Stone (d. 1973) whom he had met while in the USA and with whom he had one daughter, and in 1974 to Margaret Mackay (d. 1982). He died in Woodford Wells in January 2000.

For further information on the life and work of Kekwick see J.M. Creeth, L. Vallet and W.M. Watkins, 'Ralph Ambrose Kekwick 11 November 1908-17 January 2000', *Biographical Memoirs of Fellows of the Royal Society*, vol. 48 (2002), 233-249.

DESCRIPTION OF THE COLLECTION

The collection is presented as given in the list of contents. It is dominated by very comprehensive documentation of Kekwick's research.

Section A, Biographical, is not extensive. It includes a copy of the Royal Society biographical memoir of Kekwick, obituaries, and material documenting Kekwick's education, including a bound set of school reports from the Leyton County High School for Boys which indicate his early academic distinction. There is a small amount of correspondence and papers relating to scientific colleagues of Kekwick, including R.K. Cannan and C.S. Sherrington. The section concludes with a sequence of photographs, from a mounted photograph of Kekwick and F.G. Young as graduates in 1929 to 1971 photographs probably from Kekwick's retirement party.

Section B, Lister Institute of Preventive Medicine, presents very modest documentation of Kekwick's long association with this Institute. The bulk of the material relates to the celebrations of the seventy-fifth anniversary of the Institute.

Section C, Research, is the largest in the collection. It presents comprehensive documentation of Kekwick's research over six decades, from earliest postgraduate study in 1929 up to retirement in 1971 and beyond. The section is divided into four components. There are research notebooks 1929-1971 which document early work at University College London, the periods spent in the US in 1931-1933 and with T. Svedberg in Sweden in 1935, wartime work and ongoing postwar research. There are extensive research notes, mostly dating from the mid 1930s to the early 1970s, found in Kekwick's folders and boxfiles which may include data from ultracentrifuge and electrophoresis tests (including photographic data), notes, graphs, calculations, correspondence and drafts of publications. There are also papers and photographs of research equipment. The section is completed by a number of 'instructional notebooks' containing instructions for preparation of different substances, the conduct of experiments etc, and a little outsize material, chiefly graphs.

Section D, Publications and lectures, is very patchy in its coverage. Publications material includes a few drafts of publications, including two 1935 papers with R.K. Cannan and his memoirs of Sir Alan Drury for the Royal Society biographical memoir and the *Dictionary of National Biography*. There is also a set of Kekwick's offprints. The lectures material is a sequence of drafts for public and invitation lectures from 1947 to the late 1960s, in which Kekwick gave accounts of his work in progress and its significance.

Section E, Societies and organisations, principally documents Kekwick's association with the Medical Research Council: the largest component of the section is papers of the MRC's Blood Transfusion Research Committee, on which Kekwick served from 1948 to 1978. There is also documentation of

the Albumin Working Party of the World Health Organisation's International Committee for Standardisation in Haematology on which Kekwick served from 1970.

There is also an index of correspondents

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Bath 2003

SECTION A

BIOGRAPHICAL, A.1-A.37

1920-2002

A.1-A.6 BIOGRAPHICAL AND AUTOBIOGRAPHICAL

A.7-A.10 EDUCATION

A.11-A.15 CAREER, HONOURS AND AWARDS

A.16-A.19 SAMUEL PEPYS CLUB

A.20 LESLIE OLIVER KEKWICK

A.21-A.27 FRIENDS AND COLLEAGUES

A.28-A.37 PHOTOGRAPHS

Biographical

A.1-A.6	BIOGRAPHICAL AND AUTOBIOGRAPHICAL	c 1943-2002
A.1	'Ralph Ambrose Kekwick 11 November 1908-17 January 2000' by J.M. Creeth, L. Vallet and W.M. Watkins, Biographical Memoirs of Fellows of the Royal Society, vol 48 (2002) Photocopy.	2002
A.2	Obituaries The Independent, 16 February 2000 (by L. Vallet and W.M. Watkins); The Times, 23 March 2000.	2000
A.3	Curriculum vitae, with list of publications Duplicated typescript.	1966
A.4	'Biographical Notes concerning R.A. Kekwick' 2pp typescript.	c 1943
A.5	'Notes on the scientific work of R.A. Kekwick' 6pp typescript with 4pp typescript list of publications.	c 1957
A.6	'Brief notes on my life and work assembled for the Biochemical Society video recording December 1991' 20pp typescript.	1991
A.7-A.10	EDUCATION	1920-1992
A.7-A.9	Leyton County High School for Boys	1920-1924, 1991-1992

Biographical

- | | | |
|------------------|--|------------------|
| A.7 | Notice of Junior Scholarship to the School, 1920; tabulated form examination results 1920-1924; Programme for School Prize-Giving 1923 | 1920-1924 |
| A.8 | Bound set of School reports

The reports, covering 1920-1925, were presented as a bound volume to Kekwick on his leaving the School in September 1925. | 1925 |
| A.9 | 'LCHS 1920-1925', article for LCHS News

Draft of article, 2pp typescript; correspondence with P. Estcourt, including letter of 22 January with Kekwick's reminiscences; copy of Kekwick's entry in the Old Boys' 'Who's Who'.

Kekwick wrote this piece for the Old Boys newsletter at the invitation of Paul Estcourt, the editor. | 1991-1992 |
| A.10 | University College London

University of London B.Sc. results, 1928 and Degree Day Programme, 8 May 1929; typescript 'College Record' of Kekwick's student career, 1931. | 1928-1931 |
| A.11-A.15 | CAREER, HONOURS AND AWARDS | 1940-1971 |
| A.11 | Letter of appointment to Biophysics Section, Lister Institute of Preventive Medicine | 1940 |
| A.12 | Fellow, International Society of Hematology | 1948 |
| A.13 | Conferment of title of Professor of Biophysics, University of London

Includes application setting out Kekwick's scientific achievements and Kekwick's 3pp typescript 'Notes on the design of freeze-drying and fractionation equipment for the Blood Products Laboratory, Elstree'. | 1966 |

Biographical

A.14	Retirement book	1971
	<p>Inscribed within 'To Ralph Kekwick with affection and respect, from his colleagues, associates and friends. The Lister Institute of Preventive Medicine 1937-1971'.</p> <p>This volume of photographs of the Lister Institute and signatures of colleagues was presented to Kekwick on his retirement from the Institute in 1971.</p>	
A.15	Conferment of title of Emeritus Professor of Biophysics, University of London.	1971
A.16-A.19	SAMUEL PEPYS CLUB	1984-1997
	<p>Kekwick joined the Samuel Pepys Club in 1986. It was a dining club founded in honour of the famous diarist on the two hundredth anniversary of his death.</p>	
A.16	Correspondence <i>re</i> membership	1985-1991
A.17	Newsletters	1986-1994
	Not a complete sequence.	
A.18	Occasional Papers	1984-1990
	Not a complete sequence.	
A.19	Commemoration Addresses	1985-1997
	Not a complete sequence	

Biographical

A.20 **LESLIE OLIVER KEKWICK** **1920, 1923**

University of London papers *re* undergraduate career of L.O. Kekwick.

L.O. Kekwick was Ralph Kekwick's older brother. He too attended the Leyton County High School for Boys and studied at University College London, graduating B.Sc. in 1923.

A.21-A.27 **FRIENDS AND COLLEAGUES**

Correspondence and papers *re* scientific colleagues of Kekwick's.

A.21, A.22 R.K. Cannan 1973-1983

Cannan was a colleague of Kekwick's at University College London to 1930. Kekwick visited him at the New York College of Medicine following his return to the USA.

A.21 Correspondence with family and colleagues of Cannan, chiefly *re* biographical memoirs 1973-1983

Includes 4pp photocopy typescript of Kekwick's biographical notes on Cannan.

A.22 Memoirs of Cannan c 1973

Typescript draft by J.T. Edsall with manuscript corrections by Kekwick; printed copy of memoir (anonymous).

A.23 J.M. Creeth 1972-1974

Correspondence and papers *re* career.

Creeth was Kekwick's deputy and then his successor in the Division of Biophysics at the Lister Institute.

Biographical

A.24	A.S. McFarlane	1978
	<p>Draft obituary notice by J.H. Humphrey; 2pp typescript biographical notes by Kekwick.</p> <p>McFarlane was Head of the Biophysics Division at the National Institute for Medical Research, Mill Hill, London, 1945-1970.</p>	
A.25-A.27	C.S. Sherrington	1948-1967
	<p>This material was assembled by A.N. Drury who was researching the life of Sherrington with particular reference to the first preparation of diphtheria antitoxin in the UK.</p> <p>A.N. Drury was Director of the Lister Institute of Preventive Medicine and it was believed that the first such antitoxin to be made was created and exhibited at the Lister's predecessor institution.</p>	
A.25	Letters and reminiscences sent to Drury	1949-1958
A.26	Correspondence	1966-1967
A.27	Printed and duplicated typescript background material	1948-1958
A.28-A.37	PHOTOGRAPHS	1929-1971, n.d.
A.28	<p>Mounted Degree Day photograph of Kekwick and F.G. Young</p> <p>Kekwick and Young had graduated together in 1928.</p>	1929
A.29	Photograph of Biochemistry Laboratory, University College London	c 1930

Biographical

- A.30 Mounted group photograph inscribed on verso 'Commonwealth Fund Fellows Group 1931-1933. Photograph taken at Portman Square'

Kekwick is featured in front row.
- A.31 Group photograph inscribed on verso 'UCL Biochemistry, Physiology, Biophysics and Pharmacology. Sometime between 1933 and 1938?'

Kekwick is featured at the top of the group.
- A.32 Mounted group photograph inscribed on verso 'Lister Institute Chelsea and Elstree Staff' c 1952

Kekwick is featured in front row.
- A.33 Photographs of Kekwick at work in the Low Temperature Laboratory of the Blood Products Laboratory, Lister Institute c 1960

5 photographs, three annotated with descriptive information on verso.
- A.34 Portrait photograph of Kekwick c 1965
- A.35 Photographs from Kekwick's ?retirement party 1971

2 photographs.
- A.36 Portrait photograph of Kekwick N.d.

Probably post-retirement.
- A.37 Mounted group photograph of ?staff of Lister Institute N.d.

With key. Kekwick is in the front row.

SECTION B

**LISTER INSTITUTE OF PREVENTIVE MEDICINE, B.1-
B.10**

1965-1990

B.1-B.4 ADMINISTRATION OF THE INSTITUTE

B.5-B.10 HISTORY OF THE INSTITUTE

Kekwick joined the Lister Institute in 1937, being taken onto the Staff of the Institute in 1940. He remained at the Lister for the rest of his career to retirement in 1971. Although he maintained his laboratory at the Institute's headquarters in London, he worked closely with colleagues at the Elstree laboratories in north London.

A retirement book signed by colleagues at the Institute is at A.14.

Lister Institute of Preventive Medicine

B.1-B.4	ADMINISTRATION OF THE INSTITUTE	1981-1990
B.1	Memorandum and New Articles of Association	1982
B.2	Correspondence and papers relating to changes to the Memorandum and Articles of Association Includes papers for AGM of the Institute, 25 October 1982.	1981-1982
B.3	Lister Research Fellowship applications Circulated at the AGM of the Institute, 25 October.	1982
B.4	Correspondence and papers on work of Lister Research Fellows	1985, 1990
B.5-B.10	HISTORY OF THE INSTITUTE	1965-1990
B.5-B.9	Seventy-fifth anniversary Contents of Kekwick's folder inscribed 'Anniversary Celeb. General'. The Institute had been founded in 1891. It celebrated its 75th anniversary in 1966 with an exhibition of historical material and work in progress.	1965-1966
B.5	Typescript notes by Kekwick for history of blood transfusion display With covering letter.	1965
B.6	Manuscript notes; layout of exhibition; 3 photographs found in envelope inscribed 'Biophysics display'	c 1966

Lister Institute of Preventive Medicine

- | | | |
|------|---|-----------|
| B.7 | Historical photographs

3 photographs of the Lister Institute; 1 photograph of the first horse in England to be inoculated against diphtheria. | c 1965 |
| B.8 | Captions for exhibits

Retained in original envelope.

Folder also includes envelope containing metal 'Plate from equipment bought by C.H. Martin with funds from Munro bequest'. | 1966 |
| B.9 | Miscellaneous printed and typescript background material on the Institute | N.d. |
| B.10 | Miscellaneous correspondence and papers | 1988-1992 |

SECTION C

RESEARCH, C.1-C.311

1929-1989

C.1-C.54 RESEARCH NOTEBOOKS

C.55-C.305 RESEARCH NOTES

C.306-C.310 INSTRUCTIONAL NOTEBOOKS

C.311 OUTSIZE MATERIAL

Research

C.1-C.54 RESEARCH NOTEBOOKS 1929-1971

The notebooks span Kekwick's research career from postgraduate research at University College London (C.1), the period spent as a Commonwealth Fund Fellow in New York (C.2-C.4) and the period working in Sweden with T. Svedberg at the Fysikalische Keminska Institution, Uppsala University (C.6), through wartime work to Kekwick's postwar research.

They are presented in chronological order as far as possible.

C.1 Hardback notebook 1929-1930

Inscribed on first page 'October 1929 Ralph A. Kekwick Biochemical Dept University College London. Enzyme Synthesis'. Used for postgraduate research notes October 1929-June 1930.

Intercalated notes loose at front and back.

C.2 Hardback notebook 1932

Labelled on front cover 'Laboratory Notes 1932 I' and inscribed on first page 'University & Bellevue Hospital Medical School New York City'. Used for notes on research January-November 1932.

C.3 Hardback notebook 1932-1933

Inscribed on first page '[...] March 1932 Lab notes. University and Bellevue Hosp. Med. School New York City'. Used for notes on research November 1932-May 1933 (continuation of C.2).

C.4 Hardback notebook 1932-1935

Labelled on front cover 'Egg Albumin. Titration curves Data from literature Theoretical curves' and inscribed inside front cover '[...] March 1932 University and Bellevue Hosp. Med. School New York City'. Used for notes March 1932-1933 and for later adjustments to calculations April 1935.

Research

Intercalated loose at back is correspondence between R.K. Cannan, W.C. MacTavish and G.J. Noback on toxicology course, with typescript notes on possible course. 1934-1935.

C.5	Hardback notebook	1933-1937
	<p>Inscribed inside front cover 'November 1933 [...] Dept of Biochemistry University College London. Laboratory Notes 1933-34-35-36'. Used for notes on research on serum albumin, November 1933-June 1937.</p> <p>Intercalated notes loose at front and throughout.</p> <p>The notes may be continued in the notebook at C.306.</p>	
C.6	Softback notebook	1935-1938
	<p>Inscribed on first page 'Fysikalische Keminska Upsala April 1935. Laboratory notes'. Used for notes on research on serum albumin, April 1935-October 1938.</p> <p>Intercalated note loose at front.</p>	
C.7-C.11	Human serum and plasma notebooks	1938-1955
C.7	Hardback notebook	1938-1941
	<p>Labelled on spine 'Human plasma I 1938-1941' and on first page '[...] Lister Institute 1938 Human serum I'. Used February 1938-June 1941.</p> <p>Intercalated notes and correspondence loose at front and throughout.</p>	
C.8	Hardback notebook	1940-1943
	<p>Labelled on spine 'Human plasma II 1940-43' and on first page '[...] Lister Institute Sept 1940. Human serum II'. Used August 1940-March 1943.</p> <p>Intercalated notes and correspondence from ?C.A. Mawson, 1942, loose at front and throughout.</p>	

Research

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|-------|---|-----------|
| C.9 | Hardback notebook | 1943-1948 |
| | Inscribed on first page '[...] The Lister Institute Carshalton May 1943 Human serum and plasma III'. Used April 1943-January 1948. | |
| | Intercalated notes and correspondence loose at front and pasted to pages of the notebook throughout. | |
| C.10 | Hardback notebook | 1948-1952 |
| | Inscribed on first page '[...] Lister Institute Feb 1948. Human serum and plasma'. Used February 1948-May 1952. | |
| | Intercalated notes and data loose at front and loose and pasted to pages of the notebook throughout. | |
| C.11 | Hardback notebook | 1952-1955 |
| | Inscribed on first page '[...] Lister Institute May 1952. Human sera and plasma'. Used May 1952-June 1955. | |
| | Intercalated notes loose and pasted to pages of the notebook throughout. | |
| | Work may continue in notebook at C.33. | |
| C.11A | Hardback notebook | 1939-1940 |
| | Labelled on front cover 'Toxin'. Used for notes on methods and results of experiments April 1939-June 1940. | |
| | Intercalated notes pasted to pages and loose throughout the notebook. | |
| C.12 | Hardback notebook | 1939-1960 |
| | Inscribed on first page 'Lister Institute [...] Oct. 1939 Hell Hilter'. Used for notes chiefly on research on horse serum, October 1939-1946, 1950 and 1959-1960. | |
| | Intercalated notes, data and correspondence loose at front and pasted to pages of the notebook throughout. | |

Research

C.12A	Hardback notebook	1940
	Labelled on front cover 'Sera'. Used for work on horse sera April-November 1940.	
	Intercalated correspondence and notes loose at front and pasted to pages of the notebook.	
C.13	Notebook	1946-1967
	Inscribed on front cover 'Plasma Processing Drying. STANDARDISATIONS'. Used intermittently June 1946-March 1949, 1952, 1957-1959, 1963, 1967.	
C.14	Notebook	1947-1958
	Inscribed on first page 'Pathological sera examinations'. Used April 1947-November 1948 and intermittently thereafter to 1958.	
C.15-C.31	Electrophoresis notebooks	1948-1961
	Series of spiral bound notebooks numbered 1-17, used for work on electrophoresis from April 1948-March 1961. There are experimental results and include work of a number of Kekwick's colleagues and are in a number of hands.	
C.15	'Book One'.	1948-1949.
C.16	'Book Two'.	1949-1950
C.17	'Book Three'.	1950
C.18	'Book Four'.	1950-1951
C.19	'Book Five'.	1951-1952

Research

C.20	'Book six'.	1952
C.21	'Book seven'.	1953
C.22	'Book eight'.	1953-1954.
C.23	'Book nine'.	1954
C.24	'Book ten'.	1954-1955
C.25	'Book eleven'.	1955
C.26	'Book twelve'.	1955-1956
C.27	Book 13'.	1956
C.28	'Book 14'.	1956-1957
C.29	'Book 15'.	1957-1959
C.30	'Book 16'.	1959
C.31	'Book 17'.	1959-1961
C.32	Spiral bound notebook	1955-1956

Inscribed on front cover 'Mol[ecular] W[eigh]t & homogeneity. Globulin Expts. Path. [?] Bence Jones'.
Used February 1955-January 1956.

Graphs pasted to pages to the notebook.

Research

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|------------|---|-----------|
| C.33 | Hardback notebook | 1955-1960 |
| | Inscribed on first page '[...] Lister Institute. June 1955. Human Plasma Fractionation'. Used June 1955-February 1960. Probably continues work from C.11. | |
| | Intercalated notes loose throughout the notebook. | |
| C.34, C.35 | Hypogammaglobulinaemia notebooks | 1956-1958 |
| C.34 | Spiral bound notebook | 1956 |
| | Labelled on front cover 'Hypoglobulinaemia. 1 [...] April 1956' and on first page 'Data relating to cases of hypogammaglobulinemia. March 1956'. Used for case notes, March-October 1956. | |
| | Related correspondence taped to pages of the notebook. | |
| C.35 | Spiral bound notebook | 1956-1958 |
| | Labelled on front cover 'Hypoglobulinaemia. 1 [...] Oct 1956'. | |
| | Used for case notes, data and results, October 1956-February 1958. | |
| C.36, C.37 | Anti-haemophilic Factor notebooks | 1957-1964 |
| C.36 | Spiral bound notebook | 1957-1959 |
| | Labelled on front cover 'Anti Haemophilic Factor Assays I. [...] April 1957'. Used for data and results, April 1957-March 1959. | |
| | Loose material intercalated at front and graphs pasted to pages to the notebook. | |
| C.37 | Spiral bound notebook | 1959-1964 |
| | Labelled on front cover 'Anti Haemophilic Factor Assays II. [...] March 1959'. Used April 1959-February 1964. | |
| | Loose material intercalated loose throughout the notebook and graphs pasted to pages of the notebook. | |

Research

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|------------|---|-----------|
| C.38 | Spiral bound notebook | 1957-1958 |
| | Labelled on front page 'Serum proteins of the foetus and young animal. Abstracts of papers Book 1 [...] Dec. 1957'. | |
| C.39 | Spiral bound notebook | 1958-1964 |
| | Labelled on front cover 'Pathological Cases Book'. Used for notes on cases, January 1958-June 1964. | |
| | Extensive data and related correspondence taped to pages of the notebook. | |
| C.40, C.41 | Factor V notebooks | 1959-1964 |
| C.40 | Spiral bound notebook | 1959 |
| | Labelled on front cover 'Factor V and Brain Thromboplastic Lipid. Book 1. 1959-1963 [...] April 1959'. Used for notes on conduct and results of experiments, April 1959-May 1963. | |
| | Intercalated notes loose throughout the notebook. | |
| C.41 | Spiral bound notebook | 1963-1964 |
| | Labelled on front cover 'Factor V and Brain Thromboplastic Lipid. Book 2. June 1963'. Used for notes on conduct and results of experiments, June 1963-February 1964. | |
| C.42 | Spiral bound notebook | 1950s |
| | Untitled but chiefly used for notes on Fibrinogen. | |
| | Intercalated material loose at front and rear. | |
| C.43 | Hardback notebook | 1960-1966 |
| | Inscribed on first page '[...] Lister Institute. Feb 1960. Human Plasma Fractionation'. Used February 1960-March 1966. Probably continues work from C.33. | |
| | Intercalated notes loose throughout the notebook. | |

Research

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|-----------|---|-----------|
| C.44 | Spiral bound notebook | c 1963 |
| | Untitled. Includes notes from visit to USA and drafts of lectures. | |
| C.45-C.49 | Chromatography notebooks. | 1962-1971 |
| C.45 | Spiral bound notebook | 1962-1963 |
| | Inscribed on front cover 'Electrophoresis in cellulose acetate membrane' and on back cover 'Chromatography 1'. Used from the front for notes November-December 1962 but chiefly from the back for results of experiments, April-December 1963 | |
| C.46 | Spiral bound notebook | 1964 |
| | Inscribed on front cover 'Chromatography Book 2'. Used for results of experiments, January -November 1964. | |
| | Intercalated notes loose throughout notebook. | |
| C.47 | Spiral bound notebook | 1964-1965 |
| | Inscribed on front cover 'Chromatography Book 3. Nov. 1964'. Used for results of experiments, November 1964-August 1965. | |
| C.48 | Hardback notebook | 1965-1970 |
| | Labelled on front cover 'Chromatography 4' and on the first page 'August 1965'. Used for notes and data, August 1965-June 1970. | |
| | Includes material pasted to pages of notebook. | |
| C.49 | Hardback notebook | 1970-1971 |
| | Labelled on front cover 'Chromatography 5' and on the first page 'August 1970'. Used for notes and data, July 1970-March 1971. | |
| | Includes material pasted to pages of notebook. | |

Research

C.50, C.51	Immuno-electrophoresis notebooks.	1963
C.50	<p>Spiral bound notebook</p> <p>Inscribed on front cover 'Immuno-electrophoresis (micro) October 1963. Immuno-diffusion. Book 1'. Used September 1963-January 1967.</p> <p>Loose material intercalated at front of notebook including 'Procedure for Immunodiffusion and Immuno-electrophoresis Experiment'.</p>	1963-1967
C.51	<p>Spiral bound notebook</p> <p>Inscribed on front cover 'Immuno-electrophoresis. Immuno-diffusion. January 1967. Book 2'. Used January 1967-February 1971.</p> <p>Extensive material intercalated including photographic material.</p>	1967-1971
C.52	<p>Hardback notebook</p> <p>Inscribed on first page '[...] Lister Institute Jan 1967'. Used January 1967-March 1971.</p> <p>Material intercalated loose and pasted to pages of the notebook.</p>	1967-1971
C.53	<p>Hardback notebook</p> <p>Labelled on front cover 'Ultracentrifuge runs' and inscribed on first page '[...] Nov 1967 Ultracentrifuge experiments'. Used October 1967-September 1971.</p> <p>Loose data and correspondence intercalated loose; photographic data pasted to pages of the notebook.</p>	1967-1971
C.54	<p>Hardback notebook</p> <p>Labelled on front cover 'Pathological sera and miscellaneous' and inscribed on first page '[...] January 1968'. Used January 1967-April 1971.</p> <p>Correspondence and notes intercalated loose; photographic data pasted to pages of the notebook.</p>	1968-1971

Research

C.55-C.305	RESEARCH NOTES	1950-1963
	<p>Contents of Kekwick's folders and boxfiles. These date from the mid 1930s to the early 1970s. The material found within the boxes and folders included notes, data, calculations, correspondence and drafts of publications.</p> <p>The material is presented in alphabetical order by subject or name of research colleague as given on the folder or boxfile. Some of the folders given a subject title also bore the name of a research colleague and this has been recorded in the catalogue entries. At C.295-C.302 is material from an untitled boxfile and at C.303, C.304 are papers and photographs on research equipment.</p> <p>Much of the research work presented here relates to the data recorded in the notebooks in the sequence at C.1-C.54.</p>	
C.55-C.90	<p>'A-Z'</p> <p>Contents of Kekwick's boxfile organised by alphabetical dividers.</p> <p>The material put under each letter corresponds, in most cases, to the surname of a correspondent or a topic of research. It is retained in the order in which it was filed.</p> <p>Much of the material is correspondence requesting or discussing results of electrophoretic and ultracentrifuge tests carried out by Kekwick, together with data, including photographs, from the tests.</p>	1940s-1950s
C.55	<p>Untitled material found at front of boxfile.</p> <p>'The preparation of crystalline hemoglobin', 7pp typescript, n.d.; letter from 'Bill' requesting immuno-electrophoretic analyses of sera and dextrans, June 1957; data from 'Cell tests', 1948 and 1949; data from urinary protein tests 1958.</p>	1948-1958 and n.d.
C.56	<p>'A'.</p> <p>Data from work on 'Aerosporin' February 1948, with letter and typescript on bovine plasma samples; data from work on 'Anthrax Culture Filtrate'.</p>	1948

Research

C.57	'A'.	1952
	Manuscript and typescript draft of 'A new method for acetylating proteins' by Kekwick, J. Baddiley and E.M. Thain, submitted to 'Nature', July 1952; correspondence with the editors of 'Nature', 1952; manuscript data.	
C.58	'B'.	1948-1960
	Data on blood group substances 1957-1960; bovine plasma serum 1948.	
C.59	'C'.	1956
	Correspondence with E.T.C. Spooner and J.C. Cruikshank, London School of Hygiene and Tropical Medicine on guinea pig data; data.	
	Kekwick analysed samples of sera from guinea pigs infected with brucellae.	
C.60	'C'.	1958
	Data.	
C.61	'D'.	1947, 1952
	Data from examination of dextran samples, 1947; correspondence with A.W. Downie, University of Liverpool, <i>re</i> electrophoretic analysis of serum from generalised vaccinia case, 1952.	
C.62	'D'.	1955
	Data.	
C.63	'F'.	1947-1949
	Correspondence and papers <i>re</i> work on fibrinogen.	
	Includes draft prepared by Kekwick (though authorship is given as Kekwick, M.E. Mackay and B.R. Record), 'The fractionation of human plasma proteins with ether', 1947,	

Research

with letter from B.R. Record commenting on the draft and with 2pp manuscript note 'The purification of fibrinogen & the signignance of the clottable/total N ratio'.

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| C.64 | 'F'.

Correspondence and papers <i>re</i> fibrinogen.

Includes correspondence with K. Bailey; manuscript and typescript drafts of 'Estimation of fibrinogen by conversion to fibrin'. | 1951-1953 |
| C.65 | 'F'.

Correspondence and data. | 1956, 1959 |
| C.66 | 'G'.

Correspondence. | 1953-1956 |
| C.67 | 'H'.

Data titled 'Hochs Halogen-Antibody complex', with letter to H. Hoch, May 1949. | 1949 |
| C.68 | 'K'.

Correspondence with S.E. Keidan, University of Liverpool <i>re</i> test for gamma globulin deficiency. | 1954 |
| C.69 | 'K'.

Correspondence with J. Keilin, School of Biochemistry, Cambridge, <i>re</i> determination of molecular weight of helicorubin and related research. | 1953-1955 |
| C.70 | 'K'.

Correspondence with H.A. Krebs <i>re</i> gamma globulin deficiency. | 1953 |

Research

C.71	'L'. Correspondence with A.L. Latner, Royal Victoria Infirmary, Newcastle upon Tyne, <i>re</i> ultracentrifuge examination of samples sent to Kekwick.	1949-1961
C.72	'L'. Data from ultracentrifuge tests for A.L. Latner.	1954-1955
C.73	'L'. Letter from H. Lehmann enclosing draft of Letter to Nature', with Kekwick's reply and his suggested alteration; data on haemoglobin examined for Lehmann.	1959-1960
C.74	'M'. Contents of subfolder inscribed: 'Malnutrition sera - electrophoresis'.	1946-1950
C.74	Correspondence with R.A. McCance, chiefly <i>re</i> electrophoretic tests on sera of malnourished British ex-Prisoners of War. Includes typescript 'The ratio of arginine to lysine in the serum proteins' by P.E.H. Jones, sent to Kekwick by McCance.	1946-1949
C.75	Data from tests on malnutrition sera	1946-1948
C.76	Correspondence with J.R. Murrack <i>re</i> ultracentrifugal tests on rabbit gamma globulin.	1950
C.77	'M'. 'The electrophoretic examination of serum from cases of malnutrition' by Kekwick, 5pp typescript + table.	c 1948

Research

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| C.78 | 'M'.

Contents of subfolder inscribed: 'Electrophoresis miscellaneous': data from experiments. | 1938-1946 |
| C.79 | 'Mc'.

Letter from A.S. McFarlane, NIMR, with data from Kekwick. | 1949 |
| C.80 | 'O'.

Letter from A.G. Ogston, January, with 2pp manuscript 'Calculation of S'. | 1948 |
| C.81 | 'P'.

Correspondence and papers <i>re</i> research on pneumokoniosis.

Kekwick analysed samples of human sera for the Pneumokoniosis Research Unit, Llandough Hospital, Cardiff. | 1948-1949 |
| C.82 | 'P'.

Miscellaneous correspondence.

Includes correspondence with S.M. Partridge, Low Temperature Research Station, Cambridge, <i>re</i> ultracentrifuge tests on proteins. | 1950-1956 |
| C.83 | 'P'.

Correspondence with A.E. Pierce, Agricultural Research Council Institute of Animal Physiology, Cambridge. | 1956, 1962 |
| C.84 | 'R'.

Chiefly correspondence with L.M.N. Roy, Rheumatism Research Unit, Northern General Hospital, Edinburgh, <i>re</i> fractionation of rheumatoid plasma. | 1949, 1956 |

Research

C.85	'S'. Correspondence with D.H. Sproull, Institute of Aviation Medicine, Farnborough, <i>re</i> electrophoresis tests.	1950
C.86	'S'. Correspondence with J.C. Smith and other colleagues at the University of Manchester Department of Chemical Pathology and Nuffield Department of Occupational Health, <i>re</i> work on cadmium and mercury poisoning.	1958-1959
C.87	'T'. Correspondence with colleagues at Department of Medicine, Queen Elizabeth Hospital, Birmingham.	1954
C.88	'W'. Correspondence with E.M. Widdowson <i>re</i> tests on serum.	1949
C.89	'W'. Correspondence with G. Weber, School of Biochemistry, Cambridge, <i>re</i> tests on bovine serum albumin; data therefrom.	1952
C.90	'W'. Correspondence with A. Wassermann including comments on paper by Wassermann on actomysin.	1952-1953
C.91-C.96	'AHF General. Manuscripts, laboratory directions, buffers etc'. Contents of folder so inscribed: correspondence and papers <i>re</i> anti-haemophilic factor (AHF).	1957-1968
C.91	Exchange of letters with Maltese correspondent enquiring about availability of AHF (arising from newspaper cutting reporting on Kekwick's work); 'Resume of work carried	1957, 1960

Research

out during 1959-60 on the Purification of Human Anti-Haemophilic Factor (AHF)', 19pp typescript.

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| C.92 | Manuscript and typescript instructions for preparation and purification of AHF. | 1960-1962,
n.d. |
| C.93 | 'Some studies on the purification and stability of human Antihæmophilic Factor (Factor VII)' by Kekwick and P.L. Walton, 19pp typescript + tables and references. | 1964 |
| C.94 | Copy of draft of 'Assay of Factor VIII concentrates' by J.G. Pool sent to Kekwick for comment, with Kekwick's letter of reply. | 1964 |
| C.95 | Medical Research Council report on work on human AHF by P. Wolf, April

Wolf worked on AHF with Kekwick. | 1965 |
| C.96 | Papers <i>re</i> MRC report on Collaborative Study of Factor VIII Preparations.

Includes copy of draft report.

Kekwick was not part of this study but was asked to comment on the draft report. | |
| C.97, C.98 | 'Albumin Agglutinating Effect'.

Contents of folder so inscribed: correspondence, chiefly with K.L.G. Goldsmith of the Blood Group Reference Laboratory, BDH Chemicals Ltd and the National Research Development Corporation, <i>re</i> bovine serum albumin.

Kekwick held a patent covering the preparation of improved bovine serum albumen for the detection of rhesus antibodies and BDH Chemicals were given a license to continue development work on it. | 1969-1973 |

Research

- C.97 1969-1971.
Includes data from analysis of bovine serum albumin.
- C.98 1972-1973.
- C.99-C.101 'Albumin Agg. Reports. Armour Corr[espondence]' 1970-1974
Contents of folder so inscribed.
Correspondence, chiefly with K.L.G. Goldsmith of the Blood Group Reference Laboratory and Armour Pharmaceutical Co. Ltd, *re* electrophoresis tests on bovine serum albumin.
Includes data.
- C.99 1970.
- C.100 1971-1972.
Includes data from tests.
- C.101 1973-1974.
- C.102 'Anti-Coagulant Studies' 1963
Contents of Kekwick's folder so inscribed: correspondence and manuscript notes and data on phosphate citrate anti-coagulant solutions.
- C.103 'Anti-D Gamma G.' 1968-1970
Contents of Kekwick's folder so inscribed: correspondence and data *re* ultracentrifuge tests on Anti-D immunoglobulin.

Research

C.104	'Austrian Gamma Globulin'	1963-1964
	Contents of Kekwick's folder so inscribed: correspondence and data on tests on Austrian samples of human gamma globulin.	
C.105, C.106	'Bonnell. Cd poisoning'	1950-1963
	Contents of Kekwick's folder so inscribed.	
C.105	1950-1953	
	Chiefly correspondence <i>re</i> case of cadmium poisoning 1953 and related material.	
	Includes typescript draft on cadmium poisoning by J.A. Bonnell.	
C.106	1954-1963	
	Data from cadmium poisoning tests; correspondence; typescript draft of 'Physico-chemical examination of the serum and urine proteins in some cases of cadmium poisoning' by Kekwick, appendix to paper by J.A. Bonnell.	
C.107, C.108	'Bushy Stunt Virus. Electrophoresis. Sedimentation velocity. Sedimentation equilibrium. Refractive increment'	1938-1942
	Contents of Kekwick's folder so inscribed: data from work on Bushy stunt virus.	
	2 folders.	
C.109	'Centrifuge runs miscellaneous'	1938-1941
	Contents of Kekwick's folder so inscribed: data from ultracentrifuge tests.	
C.110-C.121	'Electrophoresis runs. Animal sera and fractions'	1939-1943
	Contents of Kekwick's boxfile so labelled: results of electrophoresis tests on horse serum.	

Research

There are two sequences that run from 157-194 (covering 1939-1940) and 371-568 (1940-1943). Neither is complete.

12 folders.

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| C.122-C.125 | 'Electrophoresis runs. Egg albumin' | 1938-1940 |
| | Contents of Kekwick's folder so inscribed divided into four. | |
| | Includes work on diphtheria antitoxins. | |
| C.122, C.123 | Data from electrophoresis tests on egg albumin | |
| | 2 folders. | |
| C.124 | Correspondence and papers | 1940 |
| | Chiefly correspondence with C.R. Amies of the Lister Institute <i>re</i> tests on samples of diphtheria antitoxins. | |
| C.125 | Papers from Lister Institute Discussion on the Purification and Properties of Diphtheria Antitoxin, 5 January 1940 | 1940 |
| | Abstracts of papers presented, including Kekwick's contribution on 'The antibodies of antidiphtheritic horse serum'; recommendations for future work. | |
| C.126-C.148 | 'Electrophoresis runs. Human sera and fractions urine proteins'. | 1938-1950 |
| | Contents of Kekwick's boxfile so inscribed: chiefly data from numbered electrophoretic tests on human sera (normal and with myeloma) 1938-1945. The numbered sequence is continuous but includes both normal and myeloma human sera. | |
| C.126-C.136 | 'Normal human sera' | 1938-1945 |
| | Contents of Kekwick's folder so inscribed: data from electrophoresis tests on human sera, numbered 3 (1938) to 222 (1945). Not a complete sequence. | |
| | 11 folders. | |

Research

C.137	Miscellaneous unnumbered data found with C.126-C.136	C.137
C.138-C.140	'Myeloma sera electrophoresis' Contents of Kekwick's folder so inscribed: data from electrophoresis tests on human sera, numbered 1 (1938) to 140 (1945), not a complete sequence. 3 folders.	1938-1943
C.141	Case notes etc. found with C.138-C.140	1939-1946
C.142-C.144	'Myeloma Globulin Electrophoresis' and 'Normal human gamma globulin electrophoresis' Contents of Kekwick's folder so labelled.	
C.142	Myeloma globulin electrophoresis tests 1-19a	1939-1941
C.143	Human gamma globulin electrophoresis tests 1-7	1940
C.144	Myeloma urine electrophoresis tests 1-10	1941-1942
C.145	Graphs of results of human sera electrophoresis tests.	c 1943
C.146	'Immune globulin - human electrophoresis' Contents of Kekwick's folder so inscribed: data from electrophoresis tests.	1946-1948
C.147	Miscellaneous data from human electrophoresis tests.	1946-1950
C.148	Correspondence from W. Bradley, Department of Medicine, University of Cambridge, found with human electrophoresis data.	1939

Research

C.149, C.150	<p>'Electrophoretic [illegible]'</p> <p>Contents of Kekwick's folder so inscribed: miscellaneous data from electrophoresis; envelopes of photographic data.</p> <p>2 folders.</p>	1938-1942
C.151-C.157	<p>'Embryonic sera etc'.</p> <p>Contents of Kekwick's folder so inscribed. Chiefly correspondence with F.W.R. Brambell, Department of Zoology, University College of North Wales, Bangor, <i>re</i> work on sera of pregnant female rabbits.</p> <p>Kekwick was a co-author with Brambell and others of 'Electrophoretic studies of serum protein of foetal rabbits', 'Proceedings of the Royal Society' B vol. 141 (1953), pp 300-314.</p>	1950-1964
C.151	<p>Correspondence with Brambell and W.A. Hemmings on results of tests on rabbit sera.</p>	1950
C.152	<p>Correspondence with Brambell and Hemmings on results of tests on rabbit sera.</p>	1951-1952
C.153	<p>'Electrophoretic studies of serum protein of foetal rabbits' by Kekwick, Brambell, Hemmings et al, 'Proceedings of the Royal Society' B vol. 141 (1953), pp 300-314.</p> <p>Includes manuscript data intercalated.</p>	1953
C.154-C.156	<p>Data and analysis.</p> <p>3 folders.</p>	1950
C.157	<p>Correspondence and papers <i>re</i> tests on rabbit sera for Brambell.</p>	1963-1964

Research

C.158-C.160	'Factor V'. Contents of Kekwick's folder so inscribed.	1956-1959
C.158	Report on 'The purification of prothrombin 2nd July 1956', 13pp typescript + figures.	
C.159	Typescript and manuscript notes and drafts on preparation of Factor V. 2 folders.	1958-1959
C.160	'Report on Human Factor V Preparations 7th January 1959', 10pp typescript; envelope of photographic data of 'Bovine Factor V. Starch gel electrophoresis', 1961-1962.	1959-1962
C.161-C.167	'Fibrinogen'. Contents of Kekwick's folder so inscribed: material chiefly on purification of fibrinogen.	1945-1957
C.161	Data from human sera electrophoresis	1945-1946
C.162	'The purification of human fibrinogen', typescript draft + figures, latest bibliographical reference 1948.	c 1949
C.163	'The fractionation of human plasma with ether', typescript draft, latest bibliographical reference 1949	c 1950
C.164	Correspondence, chiefly with B.R. Record. Includes manuscript 'Estimation of fibrinogen by conversion to fibrin - The clottable nitrogen : total nitrogen ratio' by Record.	1950-1954
C.165	Manuscript and typescript notes on fibrinogen fractionation	1950-1954

Research

C.166	<p>'Observations on the molecular weight of human fibrinogen' by Kekwick and E.A. Caspary</p> <p>3pp typescript and published copy (Communication to the Biochemical Society, January 1954).</p>	1954
C.167	<p>Correspondence from L. Lorand</p> <p>Includes 4pp typescript draft of 'Purification of the serum factor (fibrin stabilising factor: FSF) which with Ca ions together renders the plasmaclot insoluble in 30% urea' by Kekwick and Lorand.</p>	1957
C.168	<p>'Fish myosin'</p> <p>Data from tests.</p>	1953
C.169-C.180	<p>'G2/2 Heavy Component Separation'</p> <p>Contents of Kekwick's folder so inscribed.</p> <p>The bulk of the material was found further divided within envelopes and paper folders which were inscribed with a description of the contents. These have been retained and the inscriptions are reproduced in part in the catalogue entries. The material has been retained in the order found inside the main folder.</p> <p>Includes photographic data.</p>	1958-1968
C.169	<p>'Data on preparative ultracentrifuge purification of "IGS" fraction and recoveries in pellet and G2/2'.</p>	1967
C.170, C.171	<p>'Centrifuge runs. Mostly G2/2 preparations and pellets'.</p> <p>2 folders.</p>	1964-1967
C.172, C.173	<p>'Separation on G.200 as 1st step'.</p> <p>2 folders.</p>	1965-1967

Research

C.174	'Summary of expts by JMJ on reduction and separation of components'	1968
C.175, C.176	'Centrifuge runs and some chromatographic data on preliminary chromatographic fractions' 2 folders.	1964-1965
C.177	'Ouchterlong prints' Photographic prints.	1965
C.178	'Gamma-macroglobulin. Prints of LIC U.C. mins'. Photographic prints.	1964-1965
C.179	Typescript 'Extraction of G2 with acetate-phosphate buffer pH5 [...]' by S. Szuchet. With manuscript annotations by Kekwick.	1958
C.180	Miscellaneous loose data	1964-1967
C.181	'Dr Goldsmith. Fractionation of goat antisera'. Contents of Kekwick's folder so inscribed: data from tests on goat antisera; brief correspondence.	1964-1972
C.182-C.197	'Haemophilia. Experimental data. Clinical reports. Large scale batches'. Contents of Kekwick's boxfile so labelled: correspondence and papers re research work on anti-haemophilic factor (AHF).	
C.182-C.186	'Haemophilia. Experimental data'.	1951-1956
C.182	Letter from R.G. Macfarlane, Radcliffe Infirmary, Oxford, enclosing results of experiments, August.	1951

Research

C.183	Correspondence, chiefly with J.V. Dacie, Postgraduate School of Medicine, London, <i>re</i> tests on human sera.	1952, 1954
C.184	Patient data Duplicated typescript	1951-1952
C.185, C.186	Manuscript and typescript test results, graph plots etc. 2 folders.	1954-1956
C.187-C.193	'Haemophilia. Clinical reports. Large scale batches'. Contents of Kekwick's folder so inscribed: correspondence and papers	1956-1959
C.187	Correspondence and data from tests	1956
C.188	Correspondence and data from tests Correspondence, chiefly with W. d'A. Maycock.	1957
C.189	Correspondence and patient notes	1957-1958
C.190	Correspondence	1958-1959
C.191	Duplicated typescript material for 'Human Antihæmophilic Factor Informal Meeting, 7th November 1958 [...] Lister Institute'	1958
C.192	'A concentrate of human antihæmophilic factor and its use in six cases of hæmophilia' by Kekwick and P. Wolf 23pp typescript.	c 1957

Research

C.193	Manuscript and typescript data and notes on AHF assays	c 1957
C.194, C.195	'Human AHF. Details of assay methods (Pool & Robinson, Biggs, Wolf-HP), Results of comparing Pool & Robinson with Wolf-HP etc'. Correspondence and papers <i>re</i> assay of antihæmophilic globulin. 'HP' refers to the Hicks Pitney test	1958-1960
C.194	1958-1959	
C.195	1960, n.d. Includes typescript of 'The thromboplastin generation test as a method for assaying anti-hæmophilic factor', 1960; newspaper cuttings on possible use of peanut seed in treating hæmophilia, 1960; and duplicated typescript 'Assay of Antihæmophilic globulin', n.d.	
C.196	'Report of experiments on the assay of A.H.F.' by R.H. Painter. 9pp typescript + manuscript graphs.	1957
C.197	Miscellaneous material found loose Includes offprints by P. Wolf, Kekwick's research colleague.	1954-1957
C.198	'Horse Serum Centrifuge Runs' Contents of Kekwick's folder so inscribed: results and data from ultracentrifuge tests on horse serum, 'Ho.S.1' to 'Ho.S.25'.	1939-1941
C.199-C.202	'Human AHF Standard preparations assays. Cross checks with Elstree' Contents of Kekwick's folder so inscribed.	1959-1965

Research

C.199	Correspondence with W. d'A. Maycock, L. Vallet and Rosemary Biggs <i>re</i> data from tests on antihaemophilic globulin	1959-1960
C.200	Correspondence with W. d'A. Maycock and Edith Bidwell <i>re</i> data from tests on antihaemophilic globulin	1961-1965
C.201	'AHF International Standard Comparison' Contents of Kekwick's envelope: chiefly correspondence and papers <i>re</i> tests on AHF factor VIII and IX.	1962
C.202	Miscellaneous material	1960s
C.203-C.205	'Human AHF Summary of experimental results'. Contents of Kekwick's folder so labelled: chiefly data and graph plots.	1959-1966, n.d.
C.203	1959-1960	
C.204	1961-1962 Includes envelope of photographic data, 1962, inscribed 'Immuno electrophoresis prints L.34 /1,2 & 3'.	
C.205	1964-1966, n.d.	
C.206	'Human diphtheria Immunization data'. Contents of Kekwick's folder so inscribed: graph plots.	1951-1952
C.207, C.208	'Human gamma globulin G.4. Ultracentrifuge runs. Human gamma globulin G.4. February 1963' Contents of Kekwick's folder so inscribed: data and graphs.	

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Research

/...	Includes ultracentrifuge test results numbered HGG 1-HGG 20. 2 folders.	
C.209	'Human serum albumin. Ultracentrifuge runs'. Contents of Kekwick's folder so labelled.	1959
C.210-C.214	'Human serum centrifuge runs' Results of electrophoresis tests. The bulk of the material is a sequence that runs from HS 1 to HS 84. 5 folders.	1938-1941
C.215-C.235	'Hypogammaglobulinaemia. Electrophoretic and ultracentrifuge analyses' Contents of Kekwick's folder so labelled: correspondence and papers <i>re</i> work of Medical Research Council Working Party on Hypogammaglobulinaemia and analysis of sera samples. Kekwick was a member of the MRC Working Party on Hypogammaglobulinaemia (see E.30). Samples of sera from cases of this condition were sent to Kekwick for analysis.	1956-1974
C.215-C.219	Correspondence <i>re</i> samples of globulin sent to Kekwick for analysis Letters sent covering samples with Kekwick's replies, with typescript and manuscript notes of test results. Includes photographic data. 5 folders.	1956-1967
C.220-C.222	Data from ultracentrifuge tests 3 folders.	1956-1962

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C.223-C.225	Graph plots 3 folders.	1956-1966
C.226	'Hypogammaglobulinaemia. Sedimentation analysis of gamma globulin preparations used in the clinical trial'. 4pp typescript + covering letter, 4 August 1959.	1959
C.227	'The estimation of serum gamma globulin by electrophoresis' by Kekwick and L. Vallet. 7pp typescript; 7pp typescript 'Corrected copy'; covering letter, 22 September 1959.	1959
C.228	Miscellaneous correspondence	1965-1974
C.229, C.230	'Gamma-G paper' Contents of Kekwick's envelope so inscribed: typescript drafts of sections of paper, related correspondence. 2 folders.	1967-1968
C.231	'Hypogammaglobulin paper. Retyped version 29.2.68. Final version 11.3.68'. Contents of Kekwick's envelope so inscribed: typescript draft of 'Preparation and characterisation of concentrates of human normal gamma-G immunoglobulin' by Kekwick et al.	
C.232-C.235	Data 4 folders.	1956-1957
C.236-C.238	'Lactalbumin' Contents of Kekwick's folder so inscribed.	1935-1936

Research

C.236	'Research Report. Upsala, Sweden, April-December 1935' 3pp typescript, with letter from K.O. Pedersen, January 1936.	1935-1936
C.237	Manuscript rough draft of 'The isolation and properties of an albumin from cow's milk'. Also includes figures (photographic) with typescript captions.	c 1936
C.238	Manuscript notes, graphs and data	c 1936
C.239	'Lactoglobulin' Contents of Kekwick's folder so inscribed: manuscript and photographic data.	1943
C.240,C.241	'M[acroglobulin]' Contents of Kekwick's folder so inscribed.	1970-1971
C.240	Correspondence	1970-1971
C.241	Manuscript notes; annotated photocopies of articles by others	c 1970
C.242-C.245	'Macroglobulin. Thiol Treatment Experiments' Contents of Kekwick's folder so inscribed.	1967-1969
C.242	Kekwick's reports to the Medical Research Council for 1966-1967 and 1967-1968 on his work on the macroglobulin of normal human plasma Typescript 'Corrected' copies; manuscript draft of '1968 report'.	1967, 1968

Research

C.243, C.244	Notes and data. Includes photographic data. 2 folders.	1968
C.245	Envelopes of photographic data. The envelopes bear inscriptions identifying the contents. 7 envelopes.	1967-1969
C.246	'Macroglobulin. Treatment with maleic anhydride'. Contents of Kekwick's folder so inscribed: manuscript and photographic data.	1968
C.247-C.251	'Plasma Fractionation' Contents of Kekwick's folders so inscribed. This series of folders contained data and graph from numbered experiments. These numbers are reproduced in the catalogue entries.	1948-1954 and n.d.
C.247	'285 & 291'.	1948-1954
C.248	'318'	N.d.
C.249	'326'	N.d.
C.250	'328'	N.d.
C.251	'344 & 353'	N.d.

Research

C.252-C.254	'Plasma Protein Fractionation' Contents of Kekwick's folder so labelled.	1964-1967
C.252	Correspondence with L. Vallet and data Includes photographic prints from ultracentrifuge runs.	1964
C.253	Chiefly data Includes photographic prints from ultracentrifuge runs.	1965-1966
C.254	Correspondence and papers Chiefly with L. Vallet and D.R. Bangham, Director of the National Institute for Medical Research, Division of Biological Standards.	1967
C.255	'Prothrombin' Contents of Kekwick's folder: manuscript draft 'The separation and purification of Prothrombin and its conversion to thrombin', paginated 5-12; manuscript data.	1953
C.256-C.259	'Rabbit Serum Protein Fractions'. Contents of Kekwick's folder so inscribed.	1938, 1947
C.256, C.257	Data from tests on normal rabbit serum The data is numbered in a sequence from R.S. 1 to R.S. 20. 2 folders.	1938
C.258	Data from tests on rabbit serum A sequence running from 'Sheet 1' to 'Sheet 6' (lacks sheet 5).	1938
C.259	Data	1947

Research

C.260	'Rabbit serum electrophoresis'	1938-1939
	Contents of Kekwick's folder so labelled: data from electrophoresis tests in a sequence numbered R.S.E. 22-R.S.E. 30.	
C.261-C.266	'Dr Halliday Rat Serum data'.	1955-1960
	Contents of Kekwick's folder so inscribed.	
	This material relates to collaborative research between Kekwick, R. Halliday and F.W.R. Bramball of University College of North Wales, Bangor. It is principally correspondence, including typescript results of electrophoretic tests on rat sera from Kekwick, but also includes drafts of joint publications and a little original data.	
C.261	Correspondence and papers	1955
	Includes typescript copy of 'The termination of the capacity of young rats to absorb antibody from the milk' by Halliday, sent to Kekwick for interest.	
C.262	Correspondence and papers	1956
C.263	Correspondence <i>re</i> draft of 'The electrophoretic analysis of the sera of young rats from suckling to maturity', by Kekwick and Halliday	1956
	Includes draft of the joint paper and suggested alterations.	
C.264	Correspondence with Halliday	1957
C.265	Correspondence with Halliday	1959-1960
	Includes correspondence <i>re</i> joint paper.	

Research

C.266	<p>Conference on the transmission of serum proteins to the young mammals, Department of Zoology, University College of North Wales, Bangor, 14 December 1959</p> <p>Programme; duplicated typescript abstracts.</p> <p>Kekwick and Halliday gave a paper 'The selection of antibodies by the young rat'.</p>	1959
C.267-C.272	<p>'Serum albumin'</p> <p>Contents of Kekwick's folder so inscribed: chiefly data from tests on English and Swedish samples of serum albumin.</p> <p>Most of the data within the (card) folder was found subdivided within paper folders with an inscription of the subject thereon. These have been retained and the inscriptions reproduced in the catalogue entries.</p>	1935-1938
C.267	<p>'Serum albumin diffusion'</p>	N.d.
C.268	<p>'Serum albumin A. Absorption runs' and 'Serum albumin A. Electrophoresis'</p>	1935
C.269	<p>'Serum albumin A.3' and 'S a A.3 Reference scales'</p>	1935
C.270	<p>'Serum albumin B. Absorption runs' and 'Serum albumin B. Cataphoresis'</p>	1935
C.271	<p>'Serum albumin B.2' and 'Serum albumin B.2 Ref scales [...]'</p>	1935
C.272	<p>Material found loose within the folder</p> <p>Relates to Kekwick's paper 'Observations on the crystallisable albumin of horse serum', 'Biochemical Journal' vol 32 (1938).</p> <p>Letters from R.K. Cannan and K.O. Pedersen commenting on the draft; proof copy, abstract; figures.</p>	1937, 1938

Research

C.273-C.279	'Transfusion cases. Clinical notes. Electrophoresis runs' Contents of Kekwick's envelope so inscribed.	1942
C.273	Correspondence to Kekwick and Mcfarlane chiefly from ?A. van der Walt, with samples of human sera. Van der Walt worked at the North West London Blood Supply Depot.	
C.274-C.276	Data from human sera electrophoresis tests, numbered HSE 89-HSE 125 (not a complete sequence) 3 folders.	
C.277-C.279	Case notes 3 folders.	
C.280-C.285	'Ultracentrifuge runs. Dr F.V. Flynn' Contents of Kekwick's folder so labelled F.V. Flynn worked at the Department of Clinical Pathology, University College Hospital London.	1957-1965
C.280, C.281	Correspondence with Flynn <i>re</i> tests on patients with macroglobulinaemia Includes photographic data from ultracentrifuge tests. 2 folders.	1957-1965
C.282, C.283	Data 2 folders.	1960-1961
C.284	Correspondence <i>re</i> draft of paper by Flynn on macroglobulinaemia Includes Kekwick's suggested corrections.	1960-1961

Research

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|-------------|---|-----------|
| C.285 | 'An ultracentrifuge study of urine proteins with particular reference to the proteinuria of renal tubular disorders' by Kekwick, Flynn et al.

15pp typescript + references etc, as submitted to 'Clin. Chem. Acta', with covering letter. | 1962 |
| C.286-C.288 | 'Urine proteins. Spinco runs and calculations. Jan 1962'

Contents of Kekwick's folder so inscribed. | 1960-1962 |
| C.286 | 'Notes on procedure for determining molecular weight by the Archibald method' by Kekwick and J.M. Creeth

12pp typescript + figures. | c 1960 |
| C.287 | Manuscript data from tests on urine protein samples

The data is in a sequence numbered UP 1-UP 12. | 1961-1962 |
| C.288 | Letter to Kekwick from F.V. Flynn, April 1962; manuscript notes | 1961-1962 |
| C.289-C.291 | 'Walker, Caroline M. (Butterworth)'

Contents of Kekwick's folder so inscribed: correspondence and papers relating to work with C.M. Walker (later Butterworth)

Caroline Walker worked at the Lister Institute as an MRC-funded Scientific Assistant to Kekwick from 1968 to 1971. She assisted in work on normal human gamma macroglobulin and submitted her Ph.D. in 1972. | 1968-1982 |
| C.289 | 'Report to Medical Research Council for 1969-1970. Studies on human gamma macroglobulin (IgM)' by Kekwick

9pp + 1p references typescript. | 1970 |

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C.290	'Report to the Medical Research Council for 1968-1971. Studies on human immunoglobulin M. 0968/87/B' by Kekwick 12pp + references and tables typescript. Annotated 'Corrected copy 11.5.72'.	1972
C.291	Research and career	1968, 1972, 1982
C.292-C.294	'Miscellaneous investigations' Contents of Kekwick's folder so labelled: ultracentrifuge examinations of gamma globulin samples. Includes photographic data. 3 folders.	1961-1971
C.295-C.302	Contents of Kekwick's untitled boxfile	1940-1945
C.295-C.298	Data from various electrophoresis tests Numbered 313-427. Not a complete sequence. Includes photographic data.	1940
C.299	Correspondence and papers <i>re</i> jaundice cases	1944-1945
C.300-C.302	Data from human serum electrophoresis tests Numbered H.S.E. 156-H.S.E. 187 and 586-632. Not complete sequences. At C.302 is a little miscellaneous manuscript and typescript data. Includes photographic data. 3 folders.	1944
C.303, C.304	Research equipment	1936-1989

Research

- C.303 Photographs of equipment
- Six photographs: 'Ultracentrifuge A Upsala 1936'; 'Elstree: Plasma Fractionation Laboratory'; 'Apparatus for the electrophoretic separation of proteins'; 'Svedberg ultracentrifuge showing rotor housing [...] operator Mr Chandraskhar a visiting scientist'; 'Pilot plant for human plasma protein fractionation. Mr Chandrasekhar [...]'; 'Freeze drying hall at Blood Reference Laboratory, Lister Institute, Elstree [...] 1957/58'.
- For photographs of Kekwick working with apparatus for fractionation of plasma proteins see A.33.
- C.304 Papers on equipment
- Includes photocopied article (1977) and manuscript notes on Svedberg Ultracentrifuge (1989); instructions of operating equipment.
- C.305 Miscellaneous research correspondence 1939-1971
- C.306-C.310 INSTRUCTIONAL NOTEBOOKS 1930-1955**
- These notebooks contain instructions for preparation of compounds, use of equipment etc.
- C.306 Hardback notebook 1930
- Labelled on front cover 'Standard Reagents' and inscribed on first page 'Department of Physiology and Biochemistry. Departmental Standard Reagents and Solutions November 1930'. Used for instructions on preparation of compounds 1930.
- Also includes research notes from work at University College London, July 1937, continuing work documented in the notebook at C.5.
- C.307 Hardback binder 1937-1955
- Used for graphs and tables of standard data and correction curves; preparations and instructions for

Research

electrophoresis; and miscellaneous data and instructions.

Includes typescript and photographic material pasted to pages of the binder.

A little loose manuscript material at front and back of binder.

- C.308 'Memoranda and communications on the preparation of Normal Human Serum Albumin. Department of Physical Chemistry, Harvard Medical School' 1943

This volume was possibly prepared for the US Navy.

Bound duplicated typescript papers 1942-1943.

- C.309 'Memoranda and Reports on Human Fibrinogen and Thrombin and derived products. Prepared under contract OEMcmr-139' 1944

This volume was prepared for the US Committee on Medical Research of the Office of Scientific Research and Development.

Bound duplicated typescript papers on preparation of fibrinogen etc. 1941-1944.

Typescript notes by Kekwick intercalated. A few manuscript annotations on pages of the volume.

- C.310 'Separation of the Formed Elements - the protein, carbohydrate, lipid, steroid, peptide and other components of plasma' 1950

This volume was prepared by the Harvard University Laboratory of Physical Chemistry related to Medicine and Public Health, possibly to accompany an exhibition of new apparatus and techniques, 11 July 1950.

Bound duplicated typescript and printed papers.

Research

C.311

OUTSIZE MATERIAL

1956-1969

Miscellaneous graphs showing results from
ultracentrifuge and electrophoresis tests.

Retained in original order.

SECTION D

PUBLICATIONS AND LECTURES, D.1-D.33

**1935-1995,
n.d.**

D.1-D.15 PUBLICATIONS

D.16-D.33 LECTURES

Publications and lectures

D.1-D.15	PUBLICATIONS	1935-1995, n.d.
D.1	<p>'The amphoteric properties of crystalline egg albumin. I. The hydrogen ion dissociation curve' by Kekwick and R.K. Cannan</p> <p>19pp typescript with manuscript annotations; manuscript list of corrections; typescript table.</p> <p>Published as 'The hydrogen ion dissociation of the crystalline albumin of the hen's egg', <i>Biochemical Journal</i> vol 30 (1936).</p>	1935
D.2	<p>'The amphoteric properties of crystalline egg albumin. II. The effect of formaldehyde on the hydrogen ion dissociation curve' by Kekwick and R.K. Cannan</p> <p>Published as 'The effect of formaldehyde on the hydrogen ion dissociation curve of egg albumin', <i>Biochemical Journal</i> vol 30 (1936).</p>	1935
D.3	<p>Letter from Cannan to Kekwick enclosing typescript data for papers D.1 and D.2.</p>	1935
D.4	<p>'Conditions influencing the stability of human antihaemophilic factor' by Kekwick and P.L. Walton, <i>Nature</i>, vol 194 (1962)</p> <p>4pp typescript + references etc, annotated '2nd draft Corrected copy 3.4.62'.; covering letter; abstract.</p>	1962
D.5	<p>'Studies on the purification and stability of human antihaemophilic factor (Factor VIII)', <i>British Journal of Haematology</i>, vol 11 (1965)</p> <p>22pp typescript + legends for figures, references etc, 'annotated Corrected copy 1st draft 23.9.64 [...] Final draft Dece 1964'; correspondence with editor, 1965.</p>	1964-1965

Publications and lectures

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|------------|---|------------|
| D.6 | 'Preparation and characterisation of concentrates of human normal gamma-G immunoglobulin' by Kekwick, M.E. Mackay, W. d'A. Maycock and L. Vallet

29pp typescript with manuscript corrections annotated 'Corrected copy R.A.K. 14.1.68 Revised 22.2.68'. | 1968 |
| D.7 | 'The influence of polymers on the efficacy of serum albumin as a potentiator of "incomplete" Rh-agglutinins' by Kekwick, J.M. Jones and K.L.G. Goldsmith, <i>Nature</i> , vol 224 (1969)

4pp typescript + table, references etc; corrected proof. | 1969 |
| D.8 | 'A summary of studies made on human gamma-2 macroglobulin'

10pp typescript + references annotated '2nd edition 28.5.70'; incomplete typescript annotated '[...] Extra data on urea distribution April 1971'. | 1970, 1971 |
| D.9 | 'Human blood products in the UK 1939-1955' by Kekwick, <i>Trends in Biochemical Sciences</i> , c 1978

6pp typescript; letter accepting the article for publication. | 1978 |
| D.10, D.11 | 'Alan Nigel Drury 1889-1980' by Kekwick, <i>Biographical Memoirs of Fellows of the Royal Society</i> , vol 27 (1981)

Chiefly background material assembled by Kekwick for the Memoir (reused in preparing the entry for the <i>Dictionary of National Biography</i> , see D.12, D.13). | 1980, n.d. |
| D.10 | Newspaper obituaries; order of service for Drury's memorial service and 5pp typescript copy of the address by P.L. Mollison | 1980 |
| D.11 | Autobiographical notes by Drury, 11pp photocopy typescript; two portrait photographs | N.d. |

Publications and lectures

D.12, D.13	'Sir Alan Nigel Drury CBE, FRS. 1889-1980' by Kekwick, <i>Dictionary of National Biography Supplement 1971-1980</i>	1980-1995
D.12	3pp typescript; correspondence with DNB	1984-1985
D.13	Correspondence with family and colleague of Drury	1980-1995
D.14	'Preparation of human gamma-2 macroglobulin' 6pp typescript with manuscript corrections.	N.d.
D.15	Offprints Set of offprints of Kekwick's publications. Not a complete sequence.	1932-1981
D.16-D.33	LECTURES These are drafts, nearly all typescript, for public and invitation lectures delivered by Kekwick.	1947-1968, n.d.
D.16	Lecture to Chemistry Society, Bristol, 13 February 1947 Two differently titled drafts both headed as delivered to the Chemistry Society 1947: 'Human plasma protein fractionation' (also titled as 'Paper for the Royal Society of Medicine'), 10pp typescript + references; 'Some physico-chemical aspects of plasma proteins', 11pp typescript	1947
D.17	'The fractionation of human plasma proteins with ether' by Kekwick, M.E. Mackay and B.R. Record 5pp typescript.	?late 1940s

Publications and lectures

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|------|--|-------|
| D.18 | <p>'The fractionation of human plasma proteins in systems containing solvents'</p> <p>Found with label: 'Notes for lecture Liège February 22nd 1951'.</p> <p>18pp typescript + manuscript notes.</p> | 1951 |
| D.19 | <p>'Blood coagulation and the treatment of haemophilia'</p> <p>15pp typescript with manuscript corrections.</p> <p>Latest bibliographical reference 1953.</p> | 1950s |
| D.20 | <p>'The physico-chemical characterisation of gamma globulin'</p> <p>5pp typescript + tables and references.</p> <p>Latest bibliographical reference 1953.</p> | 1950s |
| D.21 | <p>'Methods of fractionating human plasma'</p> <p>Latest bibliographical reference 1954.</p> <p>8pp typescript.</p> | 1950s |
| D.22 | <p>'The plasma proteins', delivered in a series on The Scientific Basis of Medicine to the British Postgraduate Medical Federation, 1955</p> <p>'Final draft 4.5.55'.</p> <p>15pp typescript + references.</p> | 1955 |
| D.23 | <p>'The homogeneity and molecular weight of proteins', Manchester College of Technology, October 1955.</p> <p>15pp typescript.</p> | 1955 |

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|------|--|---------|
| D.24 | 'Solvent fractionation of human plasma proteins', 20 January 1959

12pp manuscript. | 1959 |
| D.25 | 'The organisation of research at the Lister Institute (Biophysics Division) or Carpe Diem'

5pp typescript.

This is a humorous account of Kekwick's research with a visiting Belgian scientist, Dr Hamoir in 1949, relating to attempts to secure supplies of Mirror Carp for use in experiments. | c 1950s |
| D.26 | Untitled 'Lecture at Farnborough 1960'

Manuscript draft. | 1960 |
| D.27 | 'Human antihaemophilic factor: some biochemical problems', Manchester Medical Society, 10 October 1962

17pp typescript. | 1962 |
| D.28 | 'The purification of fibrinogen'

Annotated 'Corrected 12.7.63 Lecture copy'.

15pp typescript. | 1963 |
| D.29 | 'Blood coagulation', Royal Free Hospital Medical School, London, 10 March 1967

10pp manuscript draft. | 1967 |
| D.30 | 'Some characteristics of human immunoglobulins', lecture in a ?series on Recent Advances in the Immunological Aspects of Haematology, April 196[?9]

Manuscript draft. | 1968 |

Publications and lectures

D.31	'The preparation and impact of human plasma protein fractions', Edinburgh 17pp typescript and manuscript.	late 1960s
D.32	'Working with big molecules' 11pp manuscript.	N.d.
D.33	Typescript 'Index of Lantern Slides'	N.d.

SECTION E

SOCIETIES AND ORGANISATIONS, E.1-E.42

1948-1998

- E.1 L'ACADÉMIE ROYAL DE MÉDECINE DE BELGIQUE
- E.2 DEPARTMENT OF HEALTH AND SOCIAL SECURITY
- E.3-E.30 MEDICAL RESEARCH COUNCIL
- E.31, E.32 ROYAL SOCIETY
- E.33-E.42 WORLD HEALTH ORGANISATION

Societies and organisations

E.1 L'ACADÉMIE ROYAL DE MÉDECINE DE BELGIQUE 1966

Brochure for 125th Anniversary Celebrations, 12-15 October 1966.

Kekwick attended on behalf of the Royal Society.

E.2 DEPARTMENT OF HEALTH AND SOCIAL SECURITY 1973

Papers *re* Kekwick's report on his visit to the Protein Fractionation Centre, Edinburgh, 9 October 1973.

Includes correspondence *re* arrangements; manuscript notes; typescript draft of Kekwick's 'Comments arising from the visit'.

E.3-E.30 MEDICAL RESEARCH COUNCIL 1948-1978

E.3-E.24 Blood Transfusion Research Committee 1948-1978

Kekwick had worked under the Medical Research Council's Blood Transfusion Research Committee during the Second World War. The Committee was wound up at the end of the war but re-established in 1949 with the following terms of reference: 'to advise and assist [...] in dealing with new problems arising in the course of work on dried blood and dried blood products'. Kekwick was a member of the committee and served on its Biological Standards Subcommittee. The committee was dissolved in 1965 but re-constituted in 1967 'to advise the Council on matters relating to the research aspects of blood transfusion'. Kekwick was again invited to serve and also was a member of its Working Party on the Cryoprecipitate Method of Preparing AHF Concentrates (E.25-E.29).

The material is chiefly agenda, minutes and other papers for meetings, some annotated by Kekwick, with a little related correspondence and manuscript and typescript notes.

Societies and organisations

E.3	Papers <i>re</i> the establishment of the Committee and first two meetings	1949
E.4	Papers for meetings; related correspondence with P.L. Mollison Chiefly <i>re</i> clinical trials of dextran.	1950-1951
E.5	Papers for meetings Includes material <i>re</i> trials of dextran.	1952
E.6	Papers for meetings Includes papers for meeting of the Biological Standards Subcommittee, 12 March 1953.	1953
E.7	Papers for meetings	1954-1955
E.8	Papers for meetings	1956
E.9	Papers for meeting	1957
E.10	Papers for meeting of Biological Standards Subcommittee, 12 April This met to consider a specification for dextran solution for clinical use.	1958
E.11	Papers for meetings; related correspondence	1958-1959
E.12	Papers for meetings	1960
E.13	Papers for meetings	1962-1963

Societies and organisations

E.14	Papers for work and meeting of <i>ad hoc</i> subcommittee to advise on the production of gamma globulin	1963
E.15	Papers for meeting; related correspondence The material concerns the future operation of the Blood Products Laboratory.	1964
E.16	Papers for meeting, 21 December This was the final meeting before the Committee was reconstituted in 1967.	1965
E.17	Papers for meeting, 22 June This was the first meeting of the reconstituted committee.	1967
E.18	Papers for meeting, 1 July	1969
E.19	Papers for meeting, 28 September	1970
E.20	Papers for meeting, 28 March	1972
E.21	Papers for meeting, 8 November	1973
E.22	Papers for meeting, 4 March	1975
E.23	Papers for meeting, 5 March	1976
E.24	Papers for meetings	1977, 1978

Societies and organisations

E.25-E.29	Working Party on the Cryoprecipitate Method of Preparing AHF Concentrates	1967-1973
	<p>This was a Working Party of the Blood Transfusion Research Committee, constituted in 1967 with the following terms of reference: 'to consider the preparation and production of AHF concentrates by the cryoprecipitate method and the effects which the wider use of this preparation might have on the research programme for plasma fractionation'. Kekwick was a member from its establishment.</p>	
E.25	Papers for first meeting, 20 November	1967
E.26	Papers for Special Meeting, 1 October	1968
E.27	Sample forms for survey of incidence of jaundice in haemophilia	1969
E.28	Papers for meeting, 8 May	1973
E.29	Final Report on 'Jaundice and factor-VIII antibodies in treated patients with haemophilia and Christmas Disease', June	1973
E.30	Working Party on Hypogammaglobulinaemia	1967-1968
	<p>Correspondence and papers <i>re</i> work of Working Party. Includes 'Synopsis of the preparation and characterisation of human normal gamma G globulin' by Kekwick et al, prepared for the Working Party, July.</p> <p>See also C.215-C.235.</p>	

Societies and organisations

E.31, E.32	ROYAL SOCIETY	1968-1998
	<p>Kekwick was elected a Fellow of the Royal Society in 1966. He was elected to the Royal Society Club in 1968.</p>	
E.31	General correspondence	1982-1996
E.32	Royal Society Club papers	1968-1998
E.33-E.42	WORLD HEALTH ORGANISATION	1970-1975
	<p>This material relates to the Albumin Working Party of the World Health Organisation's International Committee for Standardisation in Haematology. Kekwick joined the Working Party in 1970.</p>	
E.33	Correspondence and papers	1970
	<p>Includes invitations to serve on the Working Party.</p>	
E.34	Letter covering albumin samples sent to Kekwick, with photographic prints from ultracentrifuge runs on the samples	1971
E.35	'Results from the investigation on albumin for the International Committee for Standardisation in Haematology Albumin Working Party', Central Laboratory of the Netherlands Red Cross Blood Transfusion Service, Amsterdam	1971
	<p>Photocopy typescript, dated November 1971, with manuscript notes by Kekwick attached.</p>	
E.36	'WHO Serum Albumin Samples: Examination in the Ultracentrifuge and by Molecular Sieve Chromatography' by Kekwick	1971-1972

Societies and organisations

- /... 3pp typescript with manuscript corrections + tables and figures; letter returning the draft to Kekwick, December 1971; draft of Kekwick's letter of reply, January 1972.
- E.37 Data from Canadian Red Cross tests on albumin 1972
With manuscript notes by Kekwick.
- E.38 Data from 'Swiss Red Cross', 'Japanese results' and 'Australian tests' 1972
With manuscript notes by Kekwick.
- E.39 Correspondence with K.L.G. Goldsmith and related papers 1972, 1974
Includes manuscript notes by Kekwick.
- E.40 'International Committee for Standardisation in Haematology Albumin Working Party' by T.T.B. Phillips and K.L.G. Goldsmith c 1974
9pp typescript.
- E.41, E.42 'A study performed on batches of serum albumin used as diluents in Rh testing. A report to the International Society of Blood Transfusion/International Committee for Standardisation in Haematology by their Albumin Working Party' 1975
- E.41 'Original version'
17pp typescript + tables, references etc.
- E.42 'Amended version'
11pp typescript + tables, references, figures etc.

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