

ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Report on correspondence and papers of
RODNEY ROBERT PORTER
(1917-1985)
biochemist

deposited in the
Bodleian Library, Oxford

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CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE
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Catalogue of the papers and correspondence of

RODNEY ROBERT PORTER CH, FRS

(1917 - 1985)

Compiled by

Jeannine Alton and Peter Harper

Deposited in the Bodleian Library, Oxford

1987

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		<u>Items</u>	<u>Page</u>
LIST OF CONTENTS			
INTRODUCTION			4
SECTION A	BIOGRAPHICAL	A.1 - A.52	7
SECTION B	RESEARCH NOTEBOOKS	B.1 - B.38	16
	With an introductory note		
SECTION C	OXFORD	C.1 - C.27	24
SECTION D	ORGANISATIONS & CONSULTANCIES	D.1 - D.60	27
	List of contents		
SECTION E	VISITS & CONFERENCES	E.1 - E.39	37
SECTION F	JOURNALS & PUBLICATIONS	F.1 - F.13	42
SECTION G	CORRESPONDENCE	G.1 - G.75	44
	With an introductory note		
INDEX OF CORRESPONDENTS			52

INTRODUCTION

PROVENANCE

The bulk of the material was received through the courtesy of Dr. K.B.M. Reid from the MRC Immunochemistry Unit at the Department of Biochemistry, Oxford.

The wartime letters at A.9-A.16, and a little biographical material, were received from Mrs. Julia Porter, who retains some additional documents, principally relating to the award of the Nobel Prize, photographs and memorabilia.

The tributes and recollections at A.3-A.7 were assembled and made available by Dr. Lisa Steiner.

OUTLINE OF THE CAREER OF R.R. PORTER

Porter, one of the most distinguished protein chemists and immunologists in Britain, was born and educated in Lancashire, graduating from Liverpool University in 1939; the outbreak of World War II interrupted the doctoral research he began there and Porter served in the Royal Engineers until December 1945, rising to the rank of major. He returned to research at Cambridge as the first graduate student of F. Sanger. He obtained his doctorate in 1948 and the following year joined the scientific staff of the National Institute for Medical Research, Mill Hill, London, collaborating with A. J. P. Martin; this was the period of his first crucial research on antibodies.

In 1960 Porter became the first holder of the Pfizer Professorship of Immunology at St. Mary's Hospital - the first Chair of Immunology to be created in Britain. His continuing research on antibody structure at this time was helped by funding from the Medical Research Council and in large part from the American National Science Foundation and the National Institutes of Health. When the Whitley Chair of Biochemistry at Oxford became vacant on the retirement of Sir Hans Krebs, Porter was invited to accept the appointment, which he held from 1967 until his death. During the Oxford period Porter's research interests moved to the components of complement, particularly C1 and C4,

in the MRC Immunochemistry Unit which he founded and directed. His career was as active and productive as it had ever been when, three weeks before his retirement from the Whitley Chair and the start of full-time commitment to research as the Director of the Immunochemistry Unit, he was killed in a road accident on 6 September 1985.

Porter received many honours and distinctions, nationally and internationally. He was elected to the Royal Society (1964) and to Honorary membership of the National Academy of Sciences (1973); he received the Ciba Medal of the Biochemical Society and a Royal Medal of the Royal Society (1973). In 1972 he received the highest scientific honour when he shared with G. Edelman the Nobel Prize for Medicine, and in 1985 became a Companion of Honour in the Birthday Honours.

DESCRIPTION OF THE COLLECTION

The papers are presented in the order shown in the List of Contents. Additional explanatory notes accompany many of the sections, sub-sections and individual entries in the body of the catalogue. The following paragraphs aim only at drawing attention to matters of particular substance or interest.

Porter spent much of his time in the summer of 1985 preparing for his retirement from the Whitley Chair of Biochemistry and transfer to full-time research at the MRC Immunochemistry Unit. This, unfortunately, seems to have involved wholesale destruction of unwanted or outdated files and the retention only of material which he considered to be of immediate relevance.

The collection is in consequence thin in certain respects and skewed towards the later stages of Porter's career. This applies especially to Sections E (Visits and Conferences) and F (Journals and Publications); the surviving correspondence in Section G has also suffered. Of special personal interest is the sequence of Porter's letters home during his army service (A.9-A.16) and some of the recollections of Porter by colleagues and friends (A.3, A.4). Section B is of the greatest scientific interest; it preserves a complete sequence of research notebooks covering almost half a century (1936 - 1985)

and providing not only a record of experiments and observations but a direct insight into Porter's methods of work and especially his tenacity over long periods of trial and disappointment. The books document the early (B.5, B.15) and later successful stages (B.21, B.23) of the work on crystalline papain, the work on complement, and Porter's last research ideas (B.37) which continue to form the basis of ongoing experiments. Section D (Organisations and Consultancies), though confined to material of recent date, is also of interest in documenting Porter's continuing service to academic and industrial medical research and his interest in the history of British immunology as shown in his work for the Jenner Trust.

ACKNOWLEDGEMENTS

We are grateful to all those who made material available, to Mr. A. Dodds for information, and in particular to Dr. K.B.M. Reid and Dr. Lisa Steiner for advice and encouragement.

Jeannine Alton
Peter Harper

Oxford 1987

SECTION A BIOGRAPHICAL A.1 - A.52

A.1, A.2	BIOGRAPHICAL INFORMATION
A.3 -A.7A	OBITUARIES AND RECOLLECTIONS
A.8 -A.49	CAREER AND HONOURS
A.50-A.52	

BIOGRAPHICAL INFORMATION

- A.1 Miscellaneous cvs, outlines of career and work prepared by or for Porter, various dates, 1968-80.
- A.2 Lists of Porter's publications.

OBITUARIES AND RECOLLECTIONS

This material was assembled and made available by Dr. Lisa Steiner, an American colleague of Porter.

Articles and obituaries (photocopies):

Perspectives in Biology and Medicine, Spring 1986: article on antibody workshop by Porter, article about Porter by J.B. Fleischman;

Bioscience Reports: article about Porter by C.A Pasternak, and articles by P.A. Small and J.B Fleischman;

European Journal of Immunology (N.A. Mitchison)

Journal of Immunological Methods (A.P. Johnstone, M.A. Kerr, M.W. Turner);

TIBS (J. Humphrey);

Journal of Immunogenetics (C. Milstein);

Immunology Today (K.B.M. Reid);

Journal of Immunology (J B. Fleischman);

Continued

Biographical

A.3 (Cont'd.)

BioEssays (S. Cohen);

Immunological Reviews (G. Müller);

Nature (L.A. Steiner);

unknown journal (M. Carroll);

Tributes to Porter published in the Biochemical Society Bulletin, December 1985, by E.S. Lennox (funeral address), and S.V. Perry (memorial service address).

A.4

Anecdotes and remembrances (photocopies) from:

Carlos Abel; Ronald Acton; Christian Anfinsen; Paul Beeson; Walter Bodmer; Donald Capra; Sydney Cohen; Melvin Cohn; Michael Crumpton; John Edsall; John Fabre; H. Fraenkel-Conrat; David Givol; I.C. Gunsalus; Edgar Haber; Simon Hunt; Henri Isliker; Michael Kerr; Jeremy Knowles; Joel Mandelstam; Roger Morris; Hans Neurath; A.M. Pappenheimer; S.V. Perry; Emil Smith; Arnold Sanderson; Karl Schmid; S.J. Singer; Lisa Steiner; Inge von Zubern.

A.5

'Rodney Porter and the Jenner Museum'.

9pp. typescript account by Lisa Steiner, prepared for the exhibition on Porter's work at the Jenner Museum, Berkeley, Gloucestershire, 1986 (photocopy).

A.6

The Antibody Workshop.

This was an informal group of researchers whose first meetings in February and July 1959 proved a valuable means of discussing work in progress among investigators of widely divergent backgrounds and led to a continuing programme of meetings, usually in America but exceptionally elsewhere. Porter was a co-founder and a member of the 'steering' committee.

Folder includes brief history of the Antibody Workshop, funding appeal (to National Science Foundation), proposed future meetings and budget, correspondence 1962-65 on organisation and programme of meetings. Photocopies passed to Dr. Steiner by H.N. Eisen.

Porter's own account of the Antibody Workshop appeared in Perspectives in Biology and Medicine, Spring 1986. See E.9-E.11.

See also G.1-G.4.

Biographical

- A.7 Transcript and tape of a talk by Porter to the American Society of Biological Chemists, April 1973. The tape was sent to Lisa Steiner by K. Engel (National Science Foundation) and transcribed without editing.
- Porter's talk, which is on his work on complement, concludes with recollections of the financial and other support he had received from American sources.
- There is a brief introduction and conclusion by J.T. Edsall.
- A.7A 'A history of the solution of the structure of antibodies - a personal view'. Fragment only, of an account Porter was writing at the time of his death, describing his early research at Liverpool and Cambridge.
- Photocopies of photographs of Porter, family and colleagues, assembled by Dr. Steiner for the Historical Exhibition of the Biochemical Society 1986.
- Miscellaneous additional photocopied photographs of Porter and colleagues.
- (Late addition received from Dr. Steiner.)

CAREER AND HONOURS

School and University

- A.8 Oxford Local Examinations, School Certificate, 1933.
- Letter notifying award of Johnston Colonial Fellowship in Biochemistry, University of Liverpool, 1939.
- Porter's recollections of Ashton Grammar School, 1927-35, contributed in 1977 for a special edition of the school magazine to mark its replacement by a comprehensive school.

Biographical

Second World War

Porter's letters home during his service in Britain, North Africa and Europe, December 1940-December 1945; includes a few letters from Porter's brother Geoffrey, also serving in the Army.

Not all the letters are fully dated, nor are the postmarks always legible; they are presented in chronological order where possible from content, name of station, rank etc.

- A.9 ?December 1940 (one letter only)
- January-June 1941
- A.10 July-August 1941
- A.11 September-December 1941
- A.12 January-February 1942
- A.13 July-December 1942
- A.14 1943 North Africa, Sicily
- A.15 1944 Italy
- A.16 1945 Italy, Greece, Austria

Doctoral Thesis

- A.17 'The free amino groups of proteins', Cambridge, 1948.

Immunology Department, St. Mary's Hospital Medical School

- A.18 'Papers from the Department of Immunology, St. Mary's Hospital Medical School 1961-68', by Porter and colleagues, with an index numbered 1-74.
Bound volume.

Award of Merit, The Gairdner Foundation

- A.19 Notification of award (\$ 25,000), travel arrangements for presentation in Toronto, November 1966, press announcement, schedule of events, Porter's speech on receipt of prize, etc.

Biographical

Oxford: the Whitley Chair of Biochemistry

- A.20 Correspondence with Registrar, November 1966-February 1967, re appointment, staff and arrangements.
- Porter was invited by the Electors 'to consider accepting the appointment' on the retirement of H.A. Krebs. After visits and correspondence re accommodation, transfer of staff, continuation of MRC support, he accepted the post on 25 January 1967.
- Folder includes Oxford University Gazette, 9 February 1967, with notice of appointment.
- A.21-A.25 Letters of congratulation:
- | | | | |
|------|-------|------|-------|
| A.21 | A - C | A.23 | M - Q |
| A.22 | E - L | A.24 | R - W |
- A.25 Unidentified. Also included here are letters of congratulation (2 only) on award of the Ciba Medal of the Biochemical Society, announced shortly before the Oxford appointment, February 1967.

Honours and awards 1972

- A.26-A.28 National Academy of Sciences.
- Porter was elected a Foreign Associate in April 1972.
- A.26 Cable and correspondence re election.
- A.27 Letters and cables of congratulation.
- A.28 Shorter correspondence and information on affairs of the Academy, 1976-85.
- 6 A.29 Corresponding member, Australian Academy of Forensic Sciences.
- Brief correspondence only, re election in June 1972.

Biographical

A.30-A.33

The Nobel Prize

The material surviving here is mainly arrangements for interviews, films, articles, etc. consequent on the announcement of the Prize. Additional material remains in family hands.

A.30 Brief correspondence on journey to Stockholm and ceremony.

A.31 Arrangements for films for BBC TV, Swedish Broadcasting Corporation.

A.32 Interview for Chemistry in Britain; transcript of taped interview, heavily corrected by Porter, brief correspondence. Also included is a published article on the work of Porter and G. Edelman, joint winners of the Nobel Prize in Medicine.

A.33 Requests for biographical information for articles. Also included here is brief later correspondence, 1977, re group photograph of British Nobel Laureates in science.

Honours and awards 1973

A.34

Honorary Doctorate, University of Liverpool, November 1973.

Correspondence on conferral of degree, travel arrangements, schedule of academic and social events, text of Porter's speech to students. Includes some correspondence with colleagues and old friends, especially re private dinner arranged for H. J. Channon (Porter's Professor as undergraduate).

Also included is brief correspondence bestowing Life Membership of Guild of Undergraduates of the University.

A.35

Royal Medal of the Royal Society, 1973.

Notification of award, letters of congratulation.

Biographical

Honours and awards 1974

- A.36 Honorary Fellowship, Royal College of Physicians.
Correspondence re election, letters of congratulation.
- A.37 Honorary Doctorate, University of Hull, July 1974.
The degree was first offered in 1972 for conferral in 1973 at a date which Porter was unable to accept; he attended the following year.
Correspondence on conferral, academic and social events, text of Porter's speech to graduates.

Honours and awards 1976

- A.38 Honorary Fellowship, Royal Society of Edinburgh, March.
Letter of notification.
- A.39 Honorary Doctorate, University of St. Andrews, July.
Correspondence on conferral, travel arrangements, schedules of academic and social events, brief correspondence from colleagues.

Honours and awards 1980-83

- A.40 European Academy of Arts, Sciences and Humanities.
Letters of election to Academy December 1980, brief later correspondence.
- A.41 Foreign Membership, Académie Nationale de Médecine, Paris, 1981.
Correspondence re candidature; includes Porter's 2pp. 'Summary of research'.
- A.42 Honorary Fellowship, Pembroke College, Cambridge, February 1983.
Correspondence re election, arrangements to visit, letters of congratulation.

Biographical

A.43-A.45 The Copley Medal of the Royal Society, 1983.

A.43 Letter of notification, arrangements to receive medal awarded 'in recognition of your elucidation of the structure of immunoglobulins and of the reactions involved in activating the complement system of proteins'.

Letters of congratulation:

A.44 B - M

A.45 P - Z and unidentified.

Honours and awards 1985

A.46 Arcades.

Brief information only, re Oxford members.

A.47 Honorary Membership, British Society for Immunology.

Letter of notification, arrangements for announcement at meeting of Society, November 1985.

A.48 Honorary Membership, Biochemical Society.

Brief correspondence only.

Retirement

A.49 Programme and brief correspondence re Biochemical Society 'Symposium in honour of R.R. Porter' on 'Genes and proteins in immunity', held in Oxford 18-19 July 1985.

Correspondence and guest-list for dinner planned for 30 September 1985. (Porter was killed on 6 September.)

Biographical

MISCELLANEOUS

- A.50 Draft letter to The Times (not sent) on the importance of research at universities, 1968.
- Invitation to Lord Mayor of London's Midsummer Banquet, 1974.
- A.51 Correspondence re retirement tributes and dinners for colleagues, 1979-83.
- A.52 Miscellaneous requests to Porter for photographs or biographical information, 1972-81.

SECTION B RESEARCH NOTEBOOKS B.1 - B.38

B.1-B.38 is a sequence of hardbacked laboratory notebooks of conventional though not uniform type. They may occasionally include notes on the literature, or of lectures attended, but their principal use was to record experimental results and Porter's reflections on them, with suggestions for further work by Porter himself or his collaborators, comments on the progress of a line of work and sometimes a narrative account. Entries are made in ink, pencil and ballpoint, with frequent intercalated figures, question marks, arrows and balloons, and comments such as 'repeat', 'try again', 'looks hopeless'. Not all the entries are dated, though most of the books have Porter's name, sometimes an address, and a starting date on the flyleaf. The books (except B.3, B.7) are not paginated or indexed, and both ends are frequently used. With the exception of B.11, B.29, which are collaborators' notebooks, all the work is in Porter's autograph manuscript.

Early attempts at papain digest in 1948 and 1953 are documented in B.5 and B.15; the later, successful experiments of 1957-58 are in B.21, B.23. Porter's research on complement is in B.34-B.38.

- B.1 Liverpool University notebook, inscribed 'R.R. Porter. Practical Chemistry. Inorganic 1936'.
At front of book, entries run October 1936-June 1938, all in ink, a few with initials of supervisor or tutor. These are followed by notes in pencil of later date, mainly on carbobenzoxy valine, 1p. dated '1/47'.
At rear of book, 3pp. only 'Lecture Notes' of Liverpool period.
- B.2 Army 'S.O.' Book inscribed 'R.R. Porter Major'.
At front of book, mainly notes on the literature.
Most of the work starts at rear of book, with experiments and calculations. Few pages only dated, June 1945, August, October 1946; 1p. is headed 'Dr. F. Sanger' (Porter's supervisor at Cambridge).
- B.3 Spiral-back notebook, inscribed 'R.R. Porter Biochem. Dept. Cambridge', paginated 1-114 and 3 unnumbered pages.
Entries begin 16 January 1946; few pages only dated 25 July, 30 August.
At rear of book, notes on preparations.

Research notebooks

- B.4 Notebook inscribed 'R.R. Porter Biochemical Lab. Cambridge'.
Work on myoglobin, lactoglobulin, pseudoglobulin. 1p. only dated 2 December.
At rear of book, brief notes only.
- B.5 Notebook inscribed 'R.R. Porter Biochem. Dept. Immunological work'.
Entries begin 3 June 1947.
Most of the work is at rear of book, with experiments, calculations, narratives, some notes on the literature; includes work on papain. Few pages only dated 21 June, 10 July, 5 August, 6 September 1948.
Work preceding and following the date '6 September 1948' is on 'Papain digest', the results being described by Porter as 'looks hopeful' and the experiment being repeated. Probably related to paper on 'The formation of a specific inhibitor by hydrolysis of rabbit antiovalbumin' (Biochem.J., 46, 1950).
- B.6 Notebook inscribed 'R.R. Porter'.
First entry on 'Diphtheria toxin' dated 21 June 1947 and work continues to December 1947.
At rear of book, experiments on immunisation against egg albumin, April-September 1948.
- B.7 Notebook inscribed 'R.R. Porter Biochemical Laboratory Cambridge 15 Dec. 1948', paginated 1-77 and many unnumbered pages.
P.1 has note of work 'On hand'. Some pages dated January, February 1948 (probably error for 1949), March, April, July.
At rear of book, brief notes only; includes table of 'Amino acid analysis gammaglobulin. Human'.
- B.8 Notebook inscribed 'R.R. Porter'.
Work on penicillinase, ribonuclease and other enzymes. Few pages dated; one account 'Unsuccessful attempt to repeat production of dialysable ribonuclease. Bad experiment' is dated 'Mill Hill 15 Dec. 1948'; account of 'Prep. of ribonuclease' is dated 16 January 1950.
At rear of book, brief notes on buffers.

Research notebooks

- B.9 Notebook inscribed 'R.R. Porter April 1950'.
First page has list of work 'to be done'; only one other page dated '8 August'.
- B.10 Notebook inscribed 'R.R. Porter 28 June 1950'.
First dated entry is 3 July; other entries dated 30 November 1950, 16 December 1952 (on 'Cathepsin'), 4 May 1953 and June 1953.
At rear of book, work on penicillinase, 1p. dated 17 July 1953.
- B.11 Notebook labelled on cover 'Practical Notebook. David G. Stern', paginated 1-119.
Detailed accounts of chromatography preparations, experiments, charts and diagrams, all dated. Entries run June 1950-6 June 1951.
- B.12 Notebook inscribed 'R.R. Porter 24/1/51'.
Work on ribonuclease, insulin, gamma-globulin, chymotrypsin, none dated.
At rear of book, brief notes only on preparations.
- B.13 Notebook inscribed 'R.R. Porter 30 August 1951'.
Continuing work on insulin partition, chymotrypsinogen, serum albumin. Few pages only dated, 2 November, 1, 29 January 1952.
- B.14 Notebook inscribed 'R.R. Porter April 1952'.
Continuing work on chymotrypsin, growth hormone, insulin, pancreatic residue, protein assays, propionic acid.
Several pages with various dates, September-December 1952, and note on growth hormone 'received from Li 10/2/54', but most pages are undated.
At rear of book, miscellaneous notes, table of substances.

Research notebooks

- B.15 Notebook inscribed 'R.R. Porter' and date altered from '1 Sept. 52' to 'Sept. 53'.
Continuing work on insulin, gamma-globulin, bovine serum albumin, various inhibitors and fractionation methods.
A few pages bear dates in October, December 1953, January-March 1954, but most pages are undated.
On an undated page (after 28 October), is an experiment headed 'Digestion of γ globulin II with crystalline papain'. K.B.M. Reid (private communication, 1987) writes 'The experiment may have been successful but the methods for fractionating the digest were not available at that time'.
- B.16 Government 'S.O.' notebook inscribed on cover 'R.R. Porter' and dated on inside cover '1 April 1954'.
Work mainly on gamma-globulin, tests on splenectomised rabbits.
Entries run April-October 1954.
At rear of book, miscellaneous other experiments on parathyroid hormone, bovine serum albumin, mixed globulin, turnip yellow mosaic virus, various dates, June-August 1954.
- B.17 Notebook inscribed 'R.R. Porter'.
Begins with work 'To be done' (on rabbits) dated 10 September 1954. Continuing work on pepsin, propanol and glycine and other enzyme assays, 'Insulin for Chiball', peroxidase, renin, etc. Several pages dated October 1954-May 1955.
At rear of book, mainly work on Growth Hormone beginning 4 August 1954.
- B.18 Notebook inscribed 'R.R. Porter 15 November 1954'.
Continuing work, mainly on rabbit gamma-globulin, preparation and tests of inhibitor.
Entries (few dated) run November 1954-January 1956.
- B.19 Notebook inscribed 'R.R. Porter 7/1/56'.
Continuing work on antibodies by chromatography, goat antirabbit sera, inhibitors.
Entries (few dated) run to December 1957.
At rear of book, notes on preparation of DEAE cellulose.

Research notebooks

- B.20 Notebook, untitled.
Work on kidney enzymes, spleen, etc. in various preparations. Not all of book used.
Entries (few dated) run March-June 1957.
At rear of book, notes on pepsin autolysis.
- B.21 Notebook inscribed 'R.R. Porter 5 November 1957'.
Work on antibodies, fractionation, papain inhibitor, preparation of crystalline papain.
Entries run November 1957-March 1958. There is a slip of paper at entry for 24 March noting significant stages in the work on papain.
- B.22 Notebook, untitled.
Work on human serum albumin. First page begins '20 January (after Anton) *; last page used has date '18/2/58'.
At rear of book, brief notes and loose index cards.
* Anton = A. Holasek (Graz), a collaborator.
- B.23 Notebook inscribed 'R.R. Porter 14 April 1958'.
Continuing work on rabbit gamma-globulin and crystalline papain.
Entries run April 1958-14 July 1959; entries for 1959 are not in Porter's hand.
This book continues work in B.21 and records crucial stages of Porter's research on papain. There is a list of important dates referred to in the book and a note of relevant publications enclosed inside front cover (not in Porter's hand) and slips inserted in the body of the book at the relevant dates.
- B.24 Notebook inscribed 'R.R. Porter 17 March 1959'.
Continuing work on antibodies, pepsin, papain, ficin, trypsin.
Entries run to March 1960.
At rear of book, brief notes, March 1959, January 1960, and some loose pages of notes (not by Porter).

Research notebooks

- B.25 Notebook inscribed 'R.R. Porter 29 February 1960'.
Work on bromosuccinamide, papain digest, human gamma-globulin, horse gamma-globulin.
Entries (very few dated) run to 2 August, which is headed 'St. Mary's' (Porter was appointed first Pfeizer Professor of Immunology, St. Mary's Hospital Medical School, University of London, in 1960). Not all of book used.
- B.26 Notebook inscribed 'R.R. Porter Sept. 1960'.
Continuing work on column chromatography, rabbit, human and horse gamma-globulin, papain, trypsin, etc.
Detailed records of sequence of experiments (few dated), 6 September 1960-20 October 1961.
- B.27 Notebook inscribed 'R.R. Porter 1 Nov. 1961'.
Continuation of work of previous book.
Detailed records of experiments and results, November 1961-28 February 1963.
- B.28 Notebook inscribed 'R.R. Porter 28 Feb. 63'.
Continuation of work of previous book.
Detailed records of experiments and results, 1 May 1963-6 January 1965 (wrongly written 64).
- B.29 Notebook inscribed 'Stephen O Sullivan'.
Experiments and results on papain digest, 5 March-10 June 1964.
- B.30 Notebook inscribed 'R.R. Porter Jan 65'.
Continuing work on enzyme digestion, 12 January 1965-26 April 1966, with a few entries by collaborators.
At front of book, a few loose pages and amino acid analysis sheets with dates in June 1969.

Research notebooks

- B.31 Notebook inscribed 'R.R. Porter 11 May 66'.
Continuing work on enzyme digest, including comments on collaborators' work.
Entries (few dated) run to 2 July 1967. A few pages also used at rear of book.
- B.32 Notebook inscribed 'R.R. Porter November 1967'.
Continuing work on sera and antibodies. Entries (not all dated) run 31 October 1967-21 March 1969.
Enclosed at rear of book are brief correspondence on labelling of BGG by 4-fluoro-3-nitriphenyl azide and experimental results and diagrams (not by Porter) November-December 1969.
- B.33 Notebook inscribed 'R.R. Porter 28 March 69'.
Continuing work on immune assays, March 1968-January 1970. Few pages used. Includes brief correspondence from P. Beeson.
At rear of book, draft tables for publication.
- B.34 Notebook inscribed 'R.R. Porter 12/8/74'.
Continuing work on immune assays; several photographs of fractionation results stuck in. Entries run to 21 March 1975.
- B.35 Notebook inscribed 'R.R. Porter 26 March 1975'.
Continuation of work in previous book; several photographs of results stuck in. Entries run to 13 September 1976.
At rear of book, brief notes only.
- B.36 Notebook inscribed 'R.R.P.'.
Entries run 15 August 1978-11 August 1979, with a few loose pages of notes and photographs of results.

Research notebooks

B.37

Notebook, no inscription. Not all pages used.

Entries run 11 August 1981-16 August 1982; the last pages are dated 21 August 1985 and '2/3 Sept.', immediately before Porter's death.

With a few pages of notes of results by collaborators, and photographs included as loose items.

Alister Dodds, Porter's research student at the time, has kindly contributed the following explanatory note (February 1987):

'Porter's last few weeks were spent trying to crystallise human C4. His first attempt involved the use of different concentrations of ammonium sulphate at different pHs. This was unsuccessful. The final note in book B.37 suggests trying polyethylene glycol as a medium from which crystallisation may occur.

'Following his death this method was tried and indeed small protein crystals were observed, though these were too small for diffraction studies. This work is being continued in collaboration with Professor Sir David Phillips's group in the Molecular Biophysics Laboratory at Oxford.'

B.38

Notebook inscribed 'R.R. Porter 8 Aug. 83'.

Entries run 5 August 1983-30 March 1984.

At front of book, photographs, results, diagrams and notes by Porter and others, and ms. and typescript drafts for a publication by Porter and others, all included as loose items.

At rear of book, data on sera of transplant patients, and brief correspondence, 6 March 1984.

Alister Dodds notes:

'All sera were typed for C4 and C4 levels determined. No correlation between C4 and transplant rejection was found.'

SECTION C OXFORD C.1 - C.27.

LECTURES C.1 - C.16

- C.1 'Idiotypic antibodies', October 1971.
- C.2 Michaelmas Term 1973
'Synthesis and secretion of Ig'
'Genetics of the immune response'
'Immunology Option Lecture 1'
- C.3 Michaelmas Term 1975
'Lecture 3 Antibody combining site'
'Genetics of immunoglobulins'
- C.4 Michaelmas Term 1976 Immunology Option
'Evidence for origin in germ line ...'
'Lecture 2 - Structure'
- C.5 Michaelmas Term 1976 Immunology Option
'Genetics of immunoglobulin'
'Lectures 7 & 8 - Rabbit Allotypes'
'Lecture 5 - Idiotypes'
- C.6 Michaelmas Term 1978 Immunology Option
'Lecture 1 - Immune reaction'

Oxford

- C.7 Michaelmas Term 1979
'Immunoglobulin gene structure'
- C.8 March 1980
'Complement'. Extensive draft and notes.
- C.9 November 1980
'Organisation of Ig DNA sequences'
- C.10 1981
'Lecture 7 Cell receptors'
2 sets of same title, and loose notes.
- C.11 Michaelmas Term 1982 Immunology Option
'Lecture 1'
'Lecture 2 - Structure'
'3'
- C.12 Hilary Term 1982. Introduction to Immunology (Third Year).
'Lecture 1'
'Lecture 2 Isolation and structure of immunoglobulin'
'Lecture 3 Complexity of immunoglobulin'
'Lecture 4 Immunoglobulin genetics'
- C.13 'Lecture 12 Complement', n.d.

Oxford

- C.14 Various undated ms. notes, drafts, slide lists, etc., on receptors, complement, gene function.
- C.15 Miscellaneous photocopied versions of lectures, various dates and undated (not a complete set).
- C.16 Miscellaneous lecture schedules, reading lists and references for immunology option, 1973, 1979-84. Brief correspondence re organisation of lecture courses.

BOTANIC GARDEN C.17 - C.24

Porter was elected Chairman of the Curators from 1 September 1979. Material includes minutes, accounts and committee papers (many annotated by Porter) and general correspondence on all matters relating to the Garden, with Curators, Superintendent, University staff and others.

C.17	1979	C.21	1983
C.18	1980	C.22	1984 (1)
C.19	1981	C.23	1984 (2)
C.20	1982	C.24	1985

MISCELLANEOUS

- C.25 Arrangements for sabbatical leave as Visiting Professor, University of California, 1978.
- C.26 Correspondence with colleagues on the future of the Enzyme Group, 1983.
- C.27 Shorter correspondence on affairs of Oxford and of the Department of Biochemistry 1981-85.

SECTION D ORGANISATIONS AND CONSULTANCIES D.1 - D.60

D.1 -D.4	COGENT LTD.
D.5	HOSPITAL FOR SICK CHILDREN, TORONTO
D.6 -D.14	IMPERIAL CANCER RESEARCH FUND
D.15	INSTITUTE OF CANCER RESEARCH
D.16-D.34	THE JENNER TRUST AND JENNER APPEAL
D.35-D.38	MAX-PLANCK INSTITUTE FOR BIOCHEMISTRY
D.39-D.51	MEDICAL RESEARCH COUNCIL
D.52-D.56	ROYAL SOCIETY
D.57, D.58	WELLCOME TRUST
D.59, D.60	WORLD HEALTH ORGANIZATION (WHO)

Organisations and consultancies

COGENT LTD.

This company, a wholly-owned subsidiary of Legal & General Life Assurance, is 'a technology company formed to provide a service to British Industry which will speed the transfer of technology to the market place in the form of new products and processes'. It was inter alia the 'financial and development partner' in an initiative by the Council of Science and Technology Institutes (CSTI) to link the British research base and industry in the field of health care. The intention was that scientists and specialists would identify areas of research activity thought to be ripe for commercial exploitation and Cogent Ltd. would provide financial support and assistance in the transfer of technology to industry.

Porter was appointed as consultant for 12 months from 1 July 1984. The material, which continues to September 1985, includes correspondence with colleagues and with A. J. Gray (Chief Executive, Cogent Ltd.), Porter's advice and evaluation on projects, progress reports, research proposals and background papers sent to him.

- D.1 Correspondence on collaborative research, meetings, arrangements for consultancy. Includes consultancy agreement and pamphlet explaining aims of CSTI, Cogent, etc. used in preparing the introductory note above. August-November 1984.
- D.2 Correspondence and arrangements for meeting on autoimmune disease, March 1985.
- D.3 Correspondence and papers with colleagues and with Cogent re research proposals; includes background papers, progress reports, Porter's notes and evaluation. October 1984-September 1985.
- D.4 Research reports and proposals, some annotated by Porter, various dates October 1984-July 1985.

Organisations and consultancies

HOSPITAL FOR SICK CHILDREN, TORONTO

- D.5 Invitation to join Scientific Advisory Committee, May 1985.

IMPERIAL CANCER RESEARCH FUND (ICRF)

Porter served as Royal Society nominee on the Council of ICRF in succession to S. Brenner from 1979 (renominated 1982, 1985). He also served on the Scientific Advisory Committee from 1979 and, as a nominee of the Council, as a Director of the Patent Holding Committee from its inception in 1982.

ICRF Council

Correspondence, papers, proposals, meetings, appointments.

- D.6 1978-80
- D.7 1981-83
- D.8 1984 (ICRF Developmental Biology Unit, Oxford).
- D.9 1985

ICRF Scientific Advisory Committee

Meetings, appointments, reports.

- D.10 1979-81
- D.11 1982-85. Porter was asked to take over as Chairman of the Committee, but declined (letter of 14 May 1985).

Organisations and consultancies

ICRF Patent Holding Company (PATCO)

Meetings, accounts, research projects and patents.

D.12 1982. Includes appointment, articles of association.

D.13 1983

D.14 1984

INSTITUTE OF CANCER RESEARCH

Porter served on the Committee of Management but resigned on his appointment to the Council of ICRF (see D.6).

D.15 Report 1977-78, kept as record of Porter's membership.

THE JENNER TRUST AND JENNER APPEAL

The Jenner Trust was formed in 1966 'to celebrate Jenner's genius and to ensure public awareness of his contribution to society'. Porter was asked to serve as Royal Society representative on the Trust in July 1977 following the resignation of Sir David Evans. He took an active interest in the affairs of the Trust and especially in the possibility of purchasing, refurbishing and equipping as a museum Jenner's house, The Chantry, which had been in church hands as the parsonage of Berkeley, Gloucestershire. In 1981 he became one of the initial Trustees of the Jenner Appeal, a joint endeavour by the Jenner Trust and the British Society for Immunology, and was much involved with fund-raising. A major donation of £500,000 by R. Sasakawa enabled the project to go ahead.

Continued

Organisations and consultancies

In September 1986 an exhibition was mounted at the Jenner Museum to commemorate Porter's contributions to antibody structure. A note prepared for the occasion by Dr. Lisa Steiner is included at A.5.

The material includes correspondence with colleagues and officers of the Trust, and some agenda and committee papers. The chief officers of the Trust were C.B. Perry and A.E. Read (Chairman and Secretary) and of the Jenner Appeal Dr. A.R. Sanderson (Secretary).

- D.16 1977-78. Includes invitation to serve on Trust, Porter's initial letter to Biological Secretary Royal Society re possibility of purchase of Chantry.
- D.17 1979-80
- D.18 1981 February-June. Launch of the Jenner Appeal, Porter's appointment as Trustee, publicity, fund-raising, possible TV programme on Jenner.
- D.19 1981 July-October. Mainly fund-raising letters and drafts, correspondence with colleagues.
- D.20 1981 November-December, 1982 February. Fund-raising, draft Trust Deed.
- D.21 1982 January-May. Mainly re donation of £500,000 to Jenner Appeal by Ryoichi Sasakawa, Chairman of Japan Shipbuilding Industry Foundation and arrangements for ceremony at Berkeley Castle to honour Sasakawa. Includes drafts for Porter's short speech of thanks.
- D.22 1982 May-July. Function, organisation, management committee of Jenner Appeal and Chantry.
- D.23 1982 September-December.

Organisations and consultancies

- D.24 1983 January-May. Appeal Trustees, Management Committee, Acquisitions Committee.
- D.25 1983 July-December. Meetings, possible Channel 4 programme on Jenner.
- D.26 1984 January-June.
- D.27 1984 June-September. Further correspondence on possible BBC programme on Jenner.
- D.28 1984 July-November. Various plans for Chantry and future of Appeal.
- D.29 1985 January-February. Further fund-raising mainly in America, arrangements for opening of the Chantry on 10 May.
- D.30 1985 March-April. Similar.
- D.31 1985 May-June. Similar. Includes plans for opening ceremony, performed by Mr. Sasakawa.
- D.32 Minutes of meetings of Jenner Appeal Trustees, 18 February 1982-1 May 1985.
- D.33 Minutes of meetings of Management Committee for the Chantry Museum, 7 March 1983-14 August 1985.
- D.34 Miscellaneous background material on Jenner and his work, and on the Appeal (booklets, specimens of stationery, architect's plans, annual reports, estimates, accounts, etc.).

1 box.

Organisations and consultancies

MAX PLANCK INSTITUTE FOR BIOCHEMISTRY

Porter was a member of the Fachbeirat (Advisory Board) from 1977 and attended its first meeting in that year, but the surviving material relates only to meetings in 1980 and 1983.

- D.35 1980. Arrangements and programme for meeting, which Porter was unable to attend, draft report prepared by D.C. Phillips (Chairman of Advisory Board), brief correspondence.
- D.36 1982. Invitation to continue to serve (to December 1985).
- D.37 1983. Arrangements and programme for meeting in April and a little scientific correspondence arising. Includes one letter 1977.
- D.38 1983. Drafts of report on meeting, brief correspondence.

MEDICAL RESEARCH COUNCIL (MRC)

- D.39-D.41 Arrangements for talk at Oxford on 'The role of universities in medical research' by Sir John Gray, then secretary of MRC. The talk (on 12 February 1974) was followed by a private dinner and discussion, both events being organised by Porter.
- D.39 Preliminary correspondence with Gray and arrangements, October-November 1973.
- D.40 Continuing correspondence with Gray, notes and memoranda, January-February 1974.
- D.41 Invitations, acceptances, letters of thanks from colleagues attending dinner, December 1973-February 1974.

Organisations and consultancies

- D.42-D.44 General correspondence, memos., etc. on affairs of MRC.
- D.42 1973, 1974, 1976
- D.43 1979-80. Includes material on lipid metabolism research.
- D.44 1981
- D.45-D.47 Correspondence with and re J.L. Gowans, Secretary of MRC.
- D.45 1975
- D.46 1976, 1978
- D.47 1979-85
- D.48 Advisory Group on Synthetic Peptides for Use in Vaccines, July 1982-
November 1983.
- Porter was a member of the Group from its inception. Material includes
correspondence, committee papers annotated by Porter, comments on
work in hand, etc.
- D.49 MRC appointments, 1982, 1984, 1985.
- D.50 MRC grant applications 1984, 1985.
- D.51 Correspondence with MRC colleagues on antibody research, 1982-83.

ROYAL SOCIETY

- D.52 Service on Sectional Committee 8, 1978-81.
- Brief correspondence only; includes invitation to serve, documents on
'growing points in science'.

Organisations and consultancies

- D.53-D.55 'Biochemistry and Genetics of Complement'; discussion meeting organised by Porter, P.J. Lachmann and K.B.M. Reid, and held at Royal Society, 25 January 1984.
- D.53 Programme, abstracts, list of participants.
- D.54 Correspondence with Royal Society, 1982-84; invitation to organise meeting, arrangements, budget, publication schedule, letters of thanks.
- D.55 Correspondence with co-organisers and colleagues re participation, papers, etc., 1982-84. Includes draft of Porter's introduction to complement prepared for meeting.
- D.56 Elections, 1981-84.

WELLCOME TRUST

- D.57 Correspondence 1959-60, 1967, 1984.
The correspondence is with colleagues and with officials of the Trust, mainly re Porter's application for the purchase of an analytical ultracentrifuge to enable him to continue his antibody research after his move to St. Mary's Hospital Medical School. The grant was made in 1960, and Porter took the equipment with him when he moved to Oxford in 1967. Correspondence 1984 includes historical accounts of the research carried out with the help of the ultracentrifuge.
- D.58 Correspondence re newly-constituted Biochemistry and Cell Biology Panel. Porter agreed to serve (August 1985, shortly before his death).

Organisations and consultancies

WORLD HEALTH ORGANIZATION (WHO)

Porter served on the WHO Expert Advisory Panel on Immunology for four successive five-year terms, 1964-84. Material includes memoranda, grant applications, meetings and discussions on the nomenclature of immunoglobulins, appointments and a little scientific correspondence.

D.59 1964-70

D.60 1971-84

SECTION E VISITS AND CONFERENCES E.1 - E.39

The surviving material dates only from 1982 and includes ongoing plans up to 1987, indicating Porter's continuing high place in international academic activity.

Visit to Spain, 16-23 May 1982

This was a British Council sponsored lecture tour to Madrid, Salamanca and Barcelona. Porter lectured and conducted seminars on complement.

E.1 Correspondence 1981-82 with British Council, Spanish colleagues and officials re arrangements for tour, requests for lectures and information, etc. Includes travel schedule and Porter's report on his visit.

E.2 Drafts for Porter's lectures.

'Structure and activation of the early components of the complement system' (also given at Budapest, September 1982; see E.5).

'The proteolytic enzymes of the complement system'

'Molecular basis of immunity to infection'

E.3 Miscellaneous schedules, programmes, guest lists, press-cuttings. Includes copy of lecture 'Messing about with isotopes and enzymes and antibodies', by C. Milstein, sent to Porter.

Visit to Hungarian Academy of Sciences, September-October 1982

E.4 Correspondence with colleagues in Hungary and with Royal Society re invitation, travel expenses and arrangements, letters of thanks, Porter's report on his visit.

E.5 Notes for Porter's lecture 'Structure and activation of the early components of the complement system', travel schedule and programme of visit, information re work of various Institutes of the Academy.

E.6 Notebook of Porter's notes on his visit.

Visits and conferences

Visit to Lausanne, September 1982

- E.7 Correspondence re invitation, travel arrangements, current research, publication.
- E.8 Notes for Porter's lecture 'Structure and interaction of the early components of complement'.

Conference on 'The Role and Significance of International Cooperation in the Biomedical Sciences', National Institutes of Health, Bethesda, 21-23 September 1983.

Porter spoke on 'Antibody structure and the Antibody Workshop meetings, 1959-66'; the proceedings were to be published in Perspectives in Biology and Medicine.

- E.9 Correspondence 1982-83 with organisers and colleagues re invitation, arrangements, letters of thanks. Includes 'Preliminary Background Document' prepared for the participants.
- E.10 Notes and draft of Porter's paper.
- E.11 Conference programme, travel-schedule, etc.

17th Miami Winter Symposium on 'Advances in Gene Technology: Molecular Biology of the Immune System', 11-15 February 1985.

Porter spoke on 'The Complement Genes of the HLA Complex', and the lecture was published in the Proceedings (ICSU Short Reports Vol.2). During the course of his visit to USA Porter also lectured at the Medical School, Houston, and gave a seminar at the Medical School, Birmingham, Alabama.

- E.12 Correspondence with organisers, invitation to participate, travel arrangements, draft programme, letter of thanks, etc., 1984-85.
- E.13 Correspondence with colleagues in USA, arrangements to meet, lecture at Houston and Birmingham, research in progress, 1984-85.
- E.14 Porter's lecture at Miami, 'The complement genes of the HLA complex'; two copies, with different ms. additions.

Visits and conferences

- E.15 Porter's lecture at Houston, 'Molecular genetics of the complement components coded in HLA'.
- E.16 Porter's copy of Miami Symposium Program, with annotations, and his ms. notes on papers given by others.
- E.17 Travel schedule, conference information, etc.
- E.18 Invitations (declined) to lecture at Washington University and Scripps Clinic during visit to USA.
- E.19 Tea Club Talk, on 'Complement genes and autoimmune disease', Department of Biochemistry, Cambridge, March 1985.
Correspondence only.
- E.20 'Needham Society', Royal Holloway College; invitation to lecture in March 1985.
- E.21 XXXIII Colloquium on Protides of the Biological Fluids, Brussels, April-May 1985.
Invitation, suggestions for participants and topics.
- E.22 Steno Symposium VII, on 'Recombinant DNA applications to defects in cellular functions and human diseases', Copenhagen, 12-14 May 1985.
Correspondence, draft programme. A talk by Porter on 'Complement factor genes and human diseases' was scheduled, but he was unable to attend.

Visits and conferences

'Immunology Update for Clinicians', organised by Royal Postgraduate Medical School, 20-24 May 1985.

Porter spoke on 'Molecular genetics of the class III genes of the MHC'.

- E.23 Correspondence with organiser.
- E.24 Various notes and drafts for Porter's talk (based on his Houston lecture at E.15).
- E.25 Copy of course information, abstracts of papers, etc. (Porter's contribution is on pp.62-63.)
- E.26 Holland Forum, 29 May-3 June 1985.
Correspondence only. Porter agreed to be on the committee of honour, but was unable to attend.

Visit to Iceland, 24 June-1 July 1985

Porter gave a seminar at the Blood Bank, and lectured on 'The complement system' and on 'The polymorphisms and reactivities of C2, C4 and factor B'.

- E.27 Correspondence 1984-85 re visit, travel schedule, lecture topics, etc.; includes correspondence re importation of Icelandic plants for Botanic Garden, Oxford.
- E.28 Notes for Porter's lectures.
- E.29 Programme and list of participants for First Symposium on Hereditary CNS Amyloid Angiopathy, Reykjavik, September 1985 (kept with material for July visit).

Visits and conferences

- E.30 Sixth Ir Gene Workshop: Immune Regulation, Oxford, 21-25 September 1985.
Invitation (declined), preliminary programme.
- E.31 XI International Complement Workshop, Key Biscayne, 3-5 November 1985.
Invitation only (accepted).
- E.32 The first Charles Harington Lecture, National Institute for Medical Research. Porter was to lecture on 20 November. Correspondence, invitation, lecture topic.
- E.33 Correspondence 1983-85 re arrangements for Porter to visit New Zealand as a Prestige Fellow in March 1986. The trip was also to include a brief visit to Hong Kong.
- E.34 6th International Congress of Immunology, Toronto, 5-11 July 1986; invitation to act as co-Chairman (declined).
- E.35 17th FEBS meeting Immunochemistry Symposium, Berlin, 24-29 August 1986; invitation to speak on Complement.
- E.36 Arrangements to visit and lecture at University of Connecticut Health Center, October 1986.
- E.37 Arrangements to visit and give Harmon Lecture at Oklahoma Medical Research Foundation, October 1986.
- E.38 Invitation to Western Australian Arthritis and Rheumatism Foundation Workshop, January 1987; includes Porter's comments on likely developments in complement components work and centres of research.
- E.39 Material re proposed 'Meeting for Discussion' on 'The emergence of man: rise of higher humanising facilities', with ms. note 'RS - BA meeting in 1987'.

SECTION F JOURNALS AND PUBLICATIONS F.1 - F.13

The material relates almost entirely to Porter's service on editorial or advisory boards, often of new journals which he helped to launch. It includes some comment on papers submitted for publication.

F.1 Bioscience Reports

Communications and Reviews in Molecular and Cell Biology.

Porter was an Hon. Advisory Editor, the others being A. Kornberg and F. Sanger. The first number of the journal appeared in January 1981, published by the Biochemical Society.

Correspondence and papers September 1980-March 1985, mainly with C.A. Pasternak (Chairman, Board of Editors), on general affairs of the journal, launching, publicity, requests to write, meetings of editorial board, submission of papers, long-term future plans, etc.

F.2 Cambridge University Press, 1984

Invitation to serve on editorial board of new Cambridge Encyclopedia of The Life Sciences.

F.3 The EMBO Journal, 1983-85

Correspondence with editor (J. Tooze) and colleagues, mainly re papers submitted for publication by Porter or sent to him for comment.

F.4 Immunological Reviews, various dates, 1976-84
(previously Transplantation Reviews)

Porter accepted an invitation to serve on the Editorial Board in October 1976.

Correspondence 1983 discusses proposed new series of volumes of 'Reminiscences'; Porter agreed to contribute an account of knowledge of antibody structure but later withdrew because of pressure of work.

Correspondence 1984 includes Porter's suggestion for 'a volume on the molecular genetics of the complement component genes (Class III) of the MHC', to which he contributed (published 1985).

Journals and publications

- F.5, F.6 Journal of Immunogenetics, 1972-73, 1985
- F.5 Correspondence 1972-73 with editors and colleagues re proposed new journal. Porter agreed to serve as a co-editor but later withdrew.
- F.6 1985. Comment on paper.
- F.7 Molecular Biology and Medicine, 1982-85
- This was a new journal published by Academic Press. The Editors-in-Chief were E.S. Lennox and S. Brenner; Porter was a member of the Editorial Board.
- General correspondence re affairs of the new journal, publicity, invitation to serve, comment on papers.
- F.8 Oxford University Press, 1982-85
- Advice on publications.
- F.9-F.12 Proceedings of the National Academy of Sciences, 1972-73, 1982-85
- Correspondence on papers submitted by Porter for publication, or referred to him for comment by PNAS.
- F.9 1972-73
- F.10 1982
- F.11 1983-84
- F.12 1985
- F.13 Royal Society of Chemistry Specialist Periodical Reports, 1981
- Request (declined) to write chapter on proteins for volume on Macromolecular Chemistry.

SECTION G CORRESPONDENCE G.1 - G.75

Porter's decision to retain only material likely to be of continuing relevance to his intended post-retirement career as Director of the MRC Immunochemistry Unit seems to have borne especially hard on his correspondence files. With very few exceptions, the surviving material dates from the 1980s and does not reflect many of Porter's long-term links with scientific colleagues. On the other hand, the intense pressure of new ideas and developments in the growing field of immunology, Porter's continuing leadership and the great respect in which he was held, emerge very clearly.

G.1-G.4 The Antibody Workshop 1960-69

The purpose of the workshop was 'to bring together a small group of investigators of a diversity of professional backgrounds who could in an informal way discuss the problems of antibody formation and exchange'. There were no published proceedings so that ideas and work in progress could be freely discussed, and several new discoveries were clarified or reported at the meetings. Eventually the workshops became in a sense victims of their own success; pressure to attend, and to publish, increased, and it was felt that the essentially informal character of the meetings could not be sustained (see G.4).

The correspondence is photocopied material exchanged by the 'Quintumvirate' of organisers with other colleagues and officials of the National Science Foundation on financial support, organisation of meetings, etc. Those chiefly involved are Melvin Cohn, Herman N. Eisen, Fred Karush, Edwin S. Lennox, S. Jon Singer.

G.1 1960-61

G.2 1964. Includes grant application for 'A continuing workshop on antibody synthesis and characterisation', with accounts of history and origin of workshop, programmes and lists of participants at previous meetings.

G.3 1965. Includes comments by W. Weaver on 'Procedures at antibody workshop' held at La Jolla in February 1965.

G.4 1966, 1969.

Material for 1969 is M. Cohn's final report on the workshops to the National Science Foundation.

Correspondence

- | | | |
|------|--|---------|
| G.5 | Biochemical Society | 1985 |
| | Correspondence with Hon. Archivist (G.R. Barker) re proposed Historical Exhibition of the Society. Includes Porter's 2pp. account of 'Contribution of immunological research to biochemistry'. | |
| G.6 | Bodmer, W.F. | 1980-84 |
| | Research, publications. | |
| G.7 | Brown, W. | 1985 |
| G.8 | Capra, J.D. | 1976-84 |
| | Research on C4 sequencing, publication, visits. | |
| G.9 | Chaplin, D.D. | 1984-85 |
| G.10 | Chibnall, A.C. and others | 1982-84 |
| | Mainly correspondence with Chibnall and colleagues re 90th birthday dinner, organised by Porter, F. Sanger and H. Gutfreund and held at King's College, Cambridge, February 1984. | |
| G.11 | Colten, H.R. | 1982-85 |
| | Complement research. | |
| G.12 | Cromlish, J.A. | 1985 |
| | Dawkins, R.L. | 1984 |
| G.13 | Dixon, F.J. | 1984-85 |
| | Article by Porter and colleague on complement genetics. | |
| | Doniach, D. | 1984 |
| | Complement in autoimmunity. | |

Correspondence

G.14	Eisen, H.N.	1973, 1983
	Giles, C.M.	1984-85
	C4 research.	
	Glaser, R.J.	1984
G.15	Harris, H.	1977-80
	Research and publications. Includes discussions and comments on draft papers, Harris's 'Thoughts on the Regius Professorship of Medicine'.	
G.16	Hauptmann, G.	1983-85
	Collaborative research on C4.	
G.17	Hjelm, M.	1984
	21-Hydroxylase.	
	Holasek, A.	1984
	Holmes, N.J.	1985
G.18	House of Commons Education, Science and Arts Committee	1982
	Reply to Questionnaire on 'Biotechnology in the UK: Training, Research and Industrial Application'.	
G.19	Huber, R.	1978, 1980, 1983
	Preparation of C4.	
	Humphrey, J.H.	1984
G.20	Inman, F.P.	1974
	Isenman, D.E.	1985
	C3, C4 research.	
	Isliker, H.	1974

Correspondence

- G.21 Klein, J. 1977-78, 1983-85
Correspondence 1977-78 is with W.F. Bodmer. Later correspondence is on C4 probe.
- G.22 Knowles, J.R. and others 1974-83
Research, appointments.
- G.23 Koelble, K. 1985
C4 typing.
- Koskimies, S. 1984
- Krause, R.M. 1975
- G.24 re Krebs, H.A. 1983-84
Correspondence with colleagues re memorials to Krebs: Biochemical Society's Krebs Memorial Scholarship Appeal (organised by H.L. Kornberg) and proposal by American colleagues R.L. Veech and B. Chance to plant giant sequoia trees on a site in Oxford.
- G.25 re Kunkel, H.G. 1975-76, 1984
Correspondence with colleagues on Kunkel's contributions to research, recommendations for prizes and awards, etc.
- G.26 Lehner, T. 1982
Commemoration of P. Gorer's contribution to immunology.
- G.27 Lennox, E.S. 1971-77, 1983
Scientific and personal correspondence.
- G.28 Mauff, G. 1982-83
C4 research and nomenclature.
- G.29 Milstein, C. and others 1973-80
Research, lectures, recommendations.

Correspondence

- | | | |
|------|---|-----------------------|
| G.30 | Morris, J.G. | 1984 |
| | Morris, P.J. | 1983-84 |
| G.31 | Müller-Eberhard, H.J.
Visits, publications. | 1973, 1982-85 |
| G.32 | O'Neill, G.J.
C4 research. | 1983-84 |
| G.33 | Oxfordshire Health Authority.
Report of the Working Party on Clinical Immunology. | 1984 |
| G.34 | Peart, W.S.
Brief exchanges on various research topics. | various dates 1978-83 |
| G.35 | Perry, S.V.
Includes arrangements for retirement symposium for Perry, at which Porter was to propose the toast, scheduled for September 1985. Perry was a friend since undergraduate days, and was asked to write the Royal Society <u>Memoir</u> of Porter. | 1982, 1985 |
| | Phillips, D.C.
Questionnaire on the Brain Drain. | 1985 |
| G.36 | Ramanathan, V.D.
Immune aggregates in leprosy. | 1985 |
| | Ruddy, S. | 1984-85 |
| G.37 | Sasazuki, T. | 1984 |
| | Schumaker, V. | various dates 1981-84 |

Correspondence

- | | | |
|-----------|--|--------------|
| G.38 | Shaw, W.D. | 1984, 1985 |
| | Shephard, E.A. | 1985 |
| G.39-G.43 | Steiner, L.A. | 1974-85 |
| | Scientific and personal correspondence, on complement research and publications, visits, conferences, etc. Most of the correspondence is incoming, but a few of Porter's replies are included. | |
| | G.39 1974-76 | G.41 1980-83 |
| | G.40 1978-79 | G.42 1984 |
| | G.43 1985. Includes Steiner's draft contribution to Porter's retirement Festschrift. | |
| G.44 | Tack, B.F. | 1980-85 |
| | Research and publications on C3, C4, C5. | |
| G.45 | Takahashi, M. | 1985 |
| | Webster, C. | 1985 |
| | History of medicine in Oxford, especially contribution of the Wellcome Trust. | |
| | Weiskrantz, L. | 1980 |
| | Wenden, D.J. | 1982 |
| | Oxford Science Park. | |
| G.46 | White, P.C. and others | 1983-84 |
| G.47 | Whitehead, A.S. and others | 1980-85 |

Correspondence

- | | | |
|------|---|---------|
| G.48 | Wolf Foundation | 1977-80 |
| | Porter was a member of the Foundation's Prize Committee in Medicine; correspondence includes his views on appropriate organisation of awards. | |
| G.49 | Woods, D. | 1982-85 |

SHORTER UNINDEXED CORRESPONDENCE

- | | | |
|------|--|---------|
| G.50 | Miscellaneous requests from colleagues and research teams for cDNA probes prepared in Porter's laboratory. | 1983-85 |
| G.51 | Requests by Porter for information or material. | 1983-85 |
| G.52 | Miscellaneous shorter correspondence. | 1980-85 |

REFERENCES AND RECOMMENDATIONS

Research grants and scholarships

- | | | |
|-----------|-------------------------------|--------------|
| G.53 | Agricultural Research Council | 1976 |
| G.54-G.57 | Wellcome Trust | 1975-85 |
| G.54 | 1975 | G.56 1981-83 |
| G.55 | 1978-79 | G.57 1984-85 |

Correspondence

G.58, G.59 Royal Commission for the Exhibition of 1851 1981-85
Porter joined the Science Scholarships Committee in 1981 on the death
of H.A. Krebs.
G.58 1981-83 G.59 1984-85

G.60 Scottish Home and Health Department 1984

G.61 1985

Appointments and promotions

G.62	1973-74	G.67	1984
G.63	1975	G.68	1984-85
G.64	1976, 1978	G.69	1985 (1)
G.65	1983 (1)	G.70	1985 (2)
G.66	1983 (2)	G.71	1985 (3)

Prizes

G.72 1973

G.73 1985

Personal

G.74 1973, 1979

G.75 1981, 1984

INDEX OF CORRESPONDENTS

ACTON, Ronald T.	E.13
ADRIAN, Richard Hume, 2nd Baron	A.42
ALLAN, K.	A.21
ALPER, Chester A.	D.55
ALVAREZ, Andrés G.	See E.1
ANTIBODY WORKSHOP	A.6, G.1-G.4 See also E.9-E.11
ASHBY, Eric, Baron	G.10
ASKONAS, B. (Ira)	A.21, F.9
BACH, Stephen	A.21
BACON, John Stanley Durrant	A.21, G.10
BADDILEY, Sir James	A.42
BADENOCH, Sir John	A.36
BALLANTRAE, Bernard Edward Fergusson, Baron	A.39
BARKER, Geoffrey R.	G.5
BAUER, Klausdieter	F.5
BAXBY, Derrick	D.22
BEAUBIEN, Mark S.	E.9
BECKER, Elmer L.	E.36
BEESON, Paul Bruce	A.27, B.33
BEESTON, Alan W.	A.34
BELL, Davey J.	A.21
BHAKDI, Sucharit	D.55
BIOCHEMICAL SOCIETY	G.5
<u>Bioscience Reports</u>	F.1
BLACK, Sir Douglas (Andrew Kilgour)	D.20
BLACKMAN, Cliff	A.21
BODMER, Sir Walter Fred	D.9, D.18, D.27, D.41, D.55, F.12, G.6, G.21
BOWKER, Keith	F.5

Index of correspondents

BOYDE, T. R. C.	E.33
BRENNER, Sydney	A.44, F.7
BRENT, Leslie	A.21
BROWN, Sir George Lindor	A.21
BROWN, Harrison	A.26
BROWN, William	G.7
BUNJE, Henry	A.35
BURCHNALL, H. H.	A.34
BURTON, Kenneth	A.21, G.10
CAMBRIDGE UNIVERSITY PRESS	F.2
CAPRA, J. Donald	G.8
CASTON, Geoffrey Kemp	D.41
CEPPELLINI, R.	F.5
CHANCE, Britton	G.24
CHAPLIN, David Dunbar	G.9
CHAPLIN, Hugh	D.55
CHIBNALL, Albert Charles	A.21, A.35, G.10
CINADER, Bernhardt	A.21
CLARKE, Ainslie B. L.	D.6-D.14
CLARKE, Sir Cyril (Astley)	A.36
COGENT Ltd.	D.1-D.4
COHEN, June	A.21
COHEN, Lionel Leonard, Baron	A.21
COHEN, Sydney	D.56
COLOMB, Maurice G.	D.55
COLTEN, Harvey Radin	D.55, G.11, G.47
CROMLISH, James A.	G.12
CRUMPTON, Michael Joseph	A.21, D.7, D.9-D.11, D.56

Index of correspondents

DANIEL, Peter	D.23, D.28
DAWKINS, R. L.	E.38, G.12
DENNISON, Stanley Raymond	A.37
DIXON, Frank James	G.13
DOLL, Sir (William) Richard (Shaboe)	A.44, D.41
DONIACH, Deborah	G.13
DUKES, Justin P.	D.25
DUMBELL, Keith Rodney	D.26
DUTHIE, Robert Buchan	D.41
EBERT, Robert H.	D.19
EISEN, Herman Nathaniel	A.28, G.14 See also A.6
ELSDEN, Sidney Reuben	A.22
ELVERSON, Mike	B.32
<u>EMBO Journal</u>	F.3
FAHEY, John L.	A.22
FEY, George H.	D.55, E.7
FOTHERGILL, John E.	D.55
FRANGIONE, Blas	E.27
FRANKLIN, Edward C.	A.22
GAGNON, Jean	F.1
GALE, Ernest Frederick	A.22, G.10
GELDART, Winston J.	A.19
GELDER, Michael Graham	D.41
GERGELY, J.	E.4
GILES, Carolyn M.	G.14
GLASER, Robert J.	G.14
GOODFELLOW, Peter	F.3
GOODMAN, Howard C.	D.59, D.60

Index of correspondents

GOODWIN, Trevor Walworth	A.34
GORER, Peter	See G.26
GOWANS, Sir James Learmonth	D.44-D.47
GRABAR, Pierre	A.41
GRAHAME-SMITH, David Grahame	D.41
GRAY, Anthony J.	D.1, D.3
GRAY, Sir John (Archibald Browne)	D.39-D.41
GRIFFITHS, J. R.	F.1
GUTFREUND, Herbert	A.22, G.10
HABAKKUK, Sir John (Hrothgar)	D.41
HARRIS, Henry	A.36, A.44, D.41, G.15
HARRIS, William J.	D.3
HARRISON, David	A.44
HAUPTMANN, Georges	D.55, G.16
HEALD, P. J.	A.22
HENDERSON, D. A.	D.28
HILL, Robert (Robin)	G.10
HJELM, Magnus	G.17
HOFSCHEIDER, P. H.	D.35, D.37
HOLASEK, Anton	G.17 See also B.22
HOLMES, Nicholas John	G.17
HOPWOOD, David Alan	D.56
HOSPITAL FOR SICK CHILDREN, TORONTO	D.5
HOUSE OF COMMONS EDUCATION, SCIENCE AND ARTS COMMITTEE	G.18
HUBER, Robert	D.37, G.19
HUGHES, R. Colin	E.32
HUMPHREY, John Herbert	G.19

Index of correspondents

<u>Immunological Reviews</u>	F.4
IMPERIAL CANCER RESEARCH FUND	D.6-D.14
INMAN, Frank P.	G.20
INSTITUTE OF CANCER RESEARCH	D.15
ISENMAN, David E.	G.20
ISLIKER, Henri	G.20
JATON, Jean-Claude	G.63
JENNER TRUST	D.16-D.34 See also A.5
JENSSON, Olafur	E.27
JERNE, Niels K.	F.5
JONES, Sir Ewart (Ray Herbert) (Tim)	G.22
<u>Journal of Immunogenetics</u>	F, 5, F.6
KATZ, Sir Bernard	A.35
KEKWICK, Ralph Ambrose	G.10
KENDREW, Sir John (Cowdery)	C.27
KENNER, George Wallace	A.34
KIIKUNI, Kenzo	D.23
KING, Roger J. B.	F.3
KLEIN, Jan	G.21
KNOWLAND, John	F.3
KNOWLES, Jeremy Randall	A.22, A.44, E.13, G.22
KOELBLE, Konrad	G.23
KOESDARMINTA, A.	D.60
KORNBERG, Sir Hans Leo	D.56, E.19, G.24
KOSKIMIES, Saija	G.23
KRAUSE, Richard M.	G.23
KREBS, Sir Hans (Adolf)	See G.24
KUNKEL, Henry George	See G.25
KURTI, Nicholas	A.27

Index of correspondents

LACHMANN, Peter Julius	D.55, G.8
LANG, Brian	D.20
LATNER, Albert Louis	A.22
LEGGETT-BAILEY, J.	G.10
LEHNER, Thomas	G.26
LENNOX, Edwin S.	F.7, G.27
LERNMARK, Åke	E.22
LEVINE, R. Paul	E.18
LONG, Cyril	A.22
LONG, David L.	D.57
MADDISON, Francis A.	D.29
MADDOX, John Royden	D.18
MANDELSTAM, Joel	A.20, A.49, D.41
MANGAN, J. L.	G.10
MARSLAND, Edward Abson	G.68
MARSTON, Fiona A. O.	F.11
MARTIN, Nicholas H.	A.23
MASSEY, Graham	D.27
MAUFF, Gottfried	D.55, G.28
MAX-PLANCK INSTITUTE FOR BIOCHEMISTRY	D.35-D.38
MEDAWAR, Sir Peter (Brian)	F.4
MEDICAL RESEARCH COUNCIL	D.39-D.51
MEO, Tommaso	D.55, F.12
MILEDI, Richard	A.44
MILSTEIN, César	E.1, G.29
MITCHELL, Fred L.	D.1
MITCHISON, (Nicholas) Avrion	A.44
<u>Molecular Biology and Medicine</u>	F.7
MÖLLER, Göran	F.4
MOORE, Stanford	A.23

Index of correspondents

MORGAN, Walter Thomas James	A.44
MORRIS, J. Gareth	G.30
MORRIS, Peter J.	G.30
MORTON, Richard Alan	A.23
MUIR, (Isabella) Helen (Mary)	G.69
MÜLLER-EBERHARD, Hans Joachim	D.55, G.25, G.31
NATVIG, Jacob B.	G.25
NEUBERGER, Albert	G.10
NEURATH, Hans	A.23
NICHOLSON, Dennis	G.10
OGSTON, Alexander George	G.10
O'NEILL, Geoffrey J.	G.32
LOUDIN, Jacques	F.11
OWEN, Samuel Griffith	D.46
OXFORD UNIVERSITY PRESS	F.8
PAINE, Roger	A.23
PASTERNAK, Charles A.	F.1
PATON, Sir William (Drummond Macdonald)	A.23, D.18-D.21, D.24-D.26, D.41
PEART, Sir (William) Stanley	D.19, D.58, G.34
PEETERS, H.	E.21
PERHAM, Richard Nelson	G.68
PERRY, Charles Bruce	D.16, D.22, D.23, D.28, D.29, D.31
PERRY, Samuel Victor	G.10, G.35
PERUTZ, Max Ferdinand	A.45
PETERS, Sir Rudolph Albert	A.23
PHILLIPS, Sir David (Chilton)	A.45, C.26, D.16, D.22, D.35, D.38, D.41, G.22, G.29, G.35, G.69

Index of correspondents

PIGGOT, Pat J.	A.24
PITT-RIVERS, Rosalind Venetia	A.45
POLLARD, A.	G.10
POPJÁK, George Joseph	A.35, A.45
PORTER, Helen Kemp	G.10
PORTERFIELD, James Stuart	A.23
PRATT, Dick	A.23
PRESS, Elisabeth M.	G.8
<u>Proceedings of the National Academy of Sciences</u>	F.9-F.12
QUAYLE, John Rodney	A.45
QUEEN ELIZABETH COLLEGE	A.23
RABIN, Brian Robert	D.1, D.3
RADDA, György Károly (George)	A.45, A.49
RAMANATHAN, V. D.	G.36
RANDLE, Sir Philip (John)	A.24
READ, Alan Ernest Alfred	D.16
REES, David Alan (Dai)	D.48, D.51, D.56
REID, Kenneth B. M.	G.69
RENWICK, Alistair	E.33
RICH, Alexander	A.27
RICHARDS, Sir Rex (Edward)	C.26
RICHARDSON, W. N. B.	A.35
RICHMOND, Mark Henry	G.71
RIVERS, P. H.	A.24, A.25
ROBSON, Sir Kenneth	A.36
ROITT, Ivan M.	D.2
ROSEN, Fred S.	D.29, D.31
ROYAL SOCIETY	D.52-D.56
RUDDY, Shaun	G.36
RYLE, Andrew	A.24

Index of correspondents

SANDERSON, Arnold R.	A.47, D.18-D.25, D.29-D.31
SANDFORD, Sir Folliott Herbert	A.20
SANGER, Frederick	A.24, G.10, G.29
SANGER, Ruth Ann	F.5
SASASUKI, Takehiko	G.37
SCHACHMAN, Howard K.	E.9
SCHMID, Karl	A.24
SCHUMAKER, Verne	G.37
SEIDMAN, Jonathan G.	D.55
SHAW, Dennis	G.6
SHAW, William V.	G.38
SHEPHARD, Elizabeth A.	G.38
SIM, Robert B.	G.12
SIMONIAN, Simon J.	A.24
SLEIGHT, Peter	D.41
SMALL, Parker A.	A.49
SMELLIE, Robert Martin Stuart	G.65
SMITH, Emil L.	A.27
SMITH, Geoffrey H.	A.24
SØRENSEN, Chresten	G.10
SPRINGER, Georg F.	F.5
STAGG, Brian H.	D.3
STEIN, William H.	A.24, A.27, A.35
STEINER, Lisa Amelia	G.39-G.43 See also A.5
STEINMETZ, Michael	D.55
STEVENS, Ronald H.	F.9
STRAUB, F. Bruno	E.4
STROMINGER, Jack Leonard	G.46
SWORD, Ian P.	D.3
SYNGE, Richard Laurence Millington	G.10

Index of correspondents

TACK, Brian F.	G.44
TAKAHASHI, Morinobu	F.3, G.45
TANG, Jordan J. N.	E.37
TEICH, M.	G.10
THOMAS, Trevor C.	A.34
THOMPSON, Robert Henry Stewart	A.36
TOOZE, John	F.3
TORY, James M.	D.5
TRIM, A. R. H.	A.24, G.10
TRISTRAM, G. R.	A.39, G.10
TURK, John L.	D.24, D.28, D.30, D.31
TURNBULL, Alexander Cuthbert	D.41
VEECH, Richard Lewis (Bud)	G.24
WALEY, Stephen	A.24
WALKER, Peter Martin Brabazon	D.10, F.9
WALL, Frederick T.	A.27
WEATHERALL, Sir David John	F.11
WEBSTER, Charles	G.45
WEIGLE, William O.	E.18
WEISKRANTZ, Lawrence	G.45
WELLCOME TRUST	D.57, D.58
WENDEN, D. J.	G.45
WHELAN, William J.	E.12
WHITE, Perrin C.	G.46
WHITEHEAD, Alexander Steven	G.47
WHITELEY, Joan Keilin	A.45
WHITTERIDGE, David	D.41
WILLIAMS, Sir Alwyn	G.65
WILLIAMS, Sir David Innes	D.9, D.11
WILLIAMS, E. F. (Bill)	G.10

Index of correspondents

WILLIAMS, Peter O.	D.19, D.57, D.58
WILLIAMSON, Alan R.	D.20, G.62
WINCHESTER, Robert	G.25
WOLD, Finn	E.13
WOLF FOUNDATION	G.48
WOODS, Derek E.	G.49
WORLD HEALTH ORGANIZATION	D.59, D.60
YOUNG, Sir Frank (George)	A.45
YUSTE, José Luis	E.1
ZÁVODSZKY, Péter	E.4
ZIMMERMAN, James K.	A.45