

Catalogue of the papers and correspondence of

Sir Edward Penley Abraham FRS

(1913 - 1999)

VOLUME II

Section E: Lectures and broadcasts

Section F: Visits and conferences

Section G: Societies and organisations

Section H: Correspondence

Section J: Non-text material

Index of correspondents

by Simon Coleman and Peter Harper

NCUACS catalogue no. 103/2/02

SECTION E

LECTURES AND BROADCASTS

E.1-E.63

E.1-E.52 LECTURES

E.53-E.63 BROADCASTS

Lectures and broadcasts

E.1-E.52	LECTURES	1942-1993, n.d.
E.1-E.22	Lectures associated with teaching	
E.23-E.52	Public lectures	
<p>For further papers relating to lectures see Section F.</p>		
E.1-E.22	Lectures associated with teaching	1942-1973, n.d.
E.1-E.21	Lectures on pathology given by Abraham at the University of Oxford.	
E.1, E.2	Copies of lecture or course handouts for students, 1942-1951, n.d. 2 folders.	
E.3-E.8	Contents of 2 files inscribed 'Lectures – School of Pathology'. Lectures by Abraham to students at the Oxford University Department of Pharmacology from 1957 or earlier.	
E.3-E.5	Manuscript and typescript notes and drafts for various lectures, <i>ca</i> 1957- <i>ca</i> 1971, n.d. Most sets of notes have titles. At E.3 are a page inscribed '1957' and three sets of notes which appear to relate to a card containing a list of lecture titles dated 1962. A few photographs are included at E.4. 3 folders.	
E.6	Letters (invitations and acceptance) <i>re</i> proposed lectures by Abraham in early 1970 and early 1971.	
E.7	Typescript entitled 'Haemostasis and Thrombosis', inscribed 'Pathology 1971 New Class Sheets'.	

Lectures and broadcasts

- E.8 Re-prints of various lectures and papers by Abraham, 1958-1966, n.d.
Found with the material in E.3-E.5 and apparently unrelated to it.
- E.9-E.20 'Lectures on General Pathology', contents of hard-back binder.
Copies of typescripts of lectures, most, or all, by Abraham, many with manuscript revisions. First page (list of contents) inscribed as above. A number of the lecture titles correspond to those of some pages of notes and drafts in E.3-E.5. Some of the texts include inserted pages of manuscript notes.
Most of the material shows continuous pagination (with gaps) and division into chapters, indicating that many or all the lectures formed part of a publication.
12 folders.
- E.21 Hardback notebook containing notes for various lectures, n.d.
Inscribed 'E.P Abraham Sir William Dunn School of Pathology Oxford' inside cover.
- E.22 University of Bath seminars, 1970-1973.
Abraham spoke at seminars for staff and research students.
Correspondence *re* arrangements for 3 seminar talks in 1970, 1972 and 1973.
- E.23-E.52 **Public lectures** *ca* 1960-1993, n.d.
Arranged chronologically, though some miscellaneous material at E.37-E.45 has not been incorporated into the chronological sequence. Material relating to undated lectures is at E.46-E.51. Invitations declined are at E.52.
- E.23-E.25 First 'ONR' Lecture (banquet speech) by Abraham at the Annual Meeting of the Society for Industrial Microbiology, Northwestern University, Evanston, Illinois, USA, 19-24 August 1973.
The title of the speech was 'Some Aspects of the Development of the Penicillins and Cephalosporins'.

Lectures and broadcasts

- E.23 Correspondence *re* arrangements and arising, May-February 1974.
- E.24 29pp typescript draft of lecture with manuscript revisions; 22pp copy of typescript of the lecture.

The lecture was published in *Developments in Industrial Microbiology* Volume 15.
- E.25 Copy of Society of Industrial Microbiology Newsletter, July 1973, containing programme etc for the Annual Meeting 1973 and a short biography of Abraham; a few miscellaneous papers found with the material relating to the 'ONR Lecture'.
- E.26-E.28 Lecture by Abraham given at the Technische Universität Berlin, Germany, 4 June 1982.

The lecture was within the framework of the University's research branch 'Structure, Function and Biosynthesis of Peptides and Proteins'.
- E.26 Correspondence etc *re* arrangements and arising, March-June 1982.
- E.27 18pp typescript draft of lecture, with manuscript corrections, headed 'Berlin'; 2pp of typescript and manuscript notes.
- E.28 Other correspondence arising from Abraham's association with the Technische Universität, January-November 1982.
- E.29, E.30 Squibb lecture, University of Nottingham, 12 May 1983.
- E.29 Correspondence *re* arrangements and arising, July 1982-May 1983.
- E.30 'The Cephalosporins – origins and future'.

2pp incomplete manuscript draft of Abraham's lecture so entitled, with revisions; 1p manuscript draft entitled 'Slides' and typescript pages for use as slides.

Lectures and broadcasts

- E.31-E.33 Lecture by Abraham given at the Technische Universität Berlin, Germany, 24 June 1983.
- The lecture was in the framework of the University's research branch 'Structure, Function and Biosynthesis of Peptides and Proteins'.
- E.31 Correspondence etc *re* arrangements and arising, March-November 1983.
- E.32 20pp typescript draft with manuscript revisions; 15pp typescript revised version with manuscript annotations and 1p manuscript list of slides.
- E.33 19pp manuscript notes with copies of figures, probably related to the drafts described in E.32.
- E.34 Talk given to the Southampton Medical Society, (arranged for) 2 October 1991.
- The lecture was on the origins and developments of penicillins and cephalosporins.
- Correspondence *re* invitation and arrangements, February-July 1991.
- E.35, E.36 Lecture given at the National Portrait Gallery: 'Alexander Fleming and his Remarkable Discoveries', 31 March 1993.
- E.35 Correspondence *re* arrangements and arising, October 1992-April 1993.
- Included is correspondence etc (found with the above correspondence) *re* a proposed Fleming Museum in St Mary's Hospital, October 1992-February 1993.
- E.36 12pp incomplete manuscript draft with revisions; incomplete typescript draft with manuscript revisions; revised typescript draft with prints and photocopied material used as slides.
- E.37-E.45 Contents of a file entitled 'Miscellaneous lectures'.

Lectures and broadcasts

- E.37 20pp typescript draft, with manuscript revisions, entitled 'Mode of Action of Antibiotics'; 9pp typescript draft, with manuscript revisions, headed 'Canberra'; 19pp copy of a typescript entitled 'The Impact of Antibiotics on Medicine'; revised version of the latter, probably for publication.
- From a file inscribed 'Lectures - Australia'. The lectures were probably given at the International Symposium on the Chemistry of Natural Products, Australia, 15-25 August 1960 (see F.2).
- E.38 'Some Aspects of Resistance to Antibiotics', given at a seminar on infectious disease organised by the Oxford Regional Committee for Postgraduate Medical Education and Training, 16 February 1971.
- Correspondence *re* arrangements, August-November 1970; 6pp manuscript notes for lecture; 17pp typescript draft of lecture, with manuscript revisions, and 4 typescript pages (probably used for slides).
- E.39 3pp incomplete typescript draft, with manuscript revisions, headed 'Orthopaedic Centre March 1st 1975' and 3pp manuscript notes for the remainder of the lecture.
- E.40 'Beta-Lactam Antibiotics: A Brief Modern History', lecture given at the 9th International Congress of Chemotherapy, Royal Albert Hall, London, 13-19 July 1975.
- 12pp copy of typescript of the lecture; programme etc.
- E.41 25pp typescript of lecture entitled 'The Cephalosporins', inscribed 'History of Science April 1976', with 1p manuscript list of slides; 3pp typescript notes for the lecture with manuscript annotations.
- E.42 21pp copy of typescript of lecture entitled 'Cephalosporin', inscribed '50th Anniversary April 1977, with 2pp typescript of speech introducing Abraham.
- E.43 7pp typescript draft with manuscript revisions entitled 'Some British Contributions to Antibiotics and Progress in Chemotherapy', n.d.
- E.44 Miscellaneous manuscript and typescript notes and lists of slides etc, with 2 photographs, for unidentified lectures, n.d.

Lectures and broadcasts

- E.45 Miscellaneous correspondence, mostly *re* arrangements and arising, relating to various lectures, 1960-1985; typescript of article entitled 'The Penicillin Nucleus' and 'inscribed 14 March 1959', with letter *re* its publication in the *British Medical Journal*, 1959 (found with the other material in this folder).
- E.46-E.51 Undated lectures.
- E.46 Contents of a file entitled 'Lectures - Biochemistry'.
Manuscript notes for 2 lectures entitled 'Sequence of Amino Acids in Proteins' and 'Hypertension'. N.d.
- E.47 'The Chemistry of the Penicillins'.
24pp copy of typescript so entitled with manuscript diagrams, n.d.
- E.48-E.51 Contents of a file inscribed 'Ceph-Pen structures photographs', n.d.
- E.48 Incomplete untitled 11pp manuscript draft with 4pp manuscript diagrams and notes; incomplete untitled 8pp manuscript draft.
- E.49-E.51 Figures for slides etc (mostly photographs).
3 folders.
- E.52 Invitations declined, 1988, 1991.
- E.53-E.63 BROADCASTS 1962-1991, n.d.**
- E.53-E.60 Contents of a file inscribed 'BBC'.
- E.53 BBC interview (Abraham and Guy Newton) on the subject of Cephalosporin for a television programme.
Correspondence *re* arrangements and arising, November 1962-January 1963.

Lectures and broadcasts

- E.54 4pp copy of transcription (probably incomplete) of monologue by Abraham on Howard Florey and the development of penicillin from a radio programme, 17 December 1968.
- E.55 Correspondence *re* Abraham's assistance in research for a BBC Open University chemistry programme, June 1977.
- E.56 'Antibiotics – a Failing Weapon?', BBC World Service, 21 September 1977.
Abraham spoke about Brötzu's discovery of cephalosporium.
10pp typescript of programme script and copy of contract.
- E.57 Correspondence *re* a proposed BBC radio programme on the discovery penicillin. October 1979.
- E.58 'Breakthrough' No.4: Howard Florey, broadcast in 1983.
A film in a documentary series on great medical figures. Abraham made a brief (non-speaking) appearance in the film and assisted in checking the script and in filming at the Sir William Dunn School of Pathology.
Brief correspondence *re* preparation and arising and draft script with manuscript revisions and annotations by Abraham, August-December 1982.
- E.59 *Horizon* documentary about penicillin: 'The Mould, the Myth and the Microbe', 27 January 1986.
Letters *re* Abraham's contribution to the programme, 1985, 1986.
- E.60 Letters in connection with an interview Abraham gave to Radio Oxford, n.d.
- E.61, E.62 'The Cephalosporins', an educational film apparently made by E.R. Squibb & Sons Ltd to increase understanding of the cephalosporin group of antibiotics.
Abraham assisted in the making of the film and contributed a historical introduction to it.

Lectures and broadcasts

- E.61 Correspondence *re* preparations and arising, with 2 typescript draft scripts of Abraham's introduction and amended version. November 1974-January 1975.
- E.62 2pp typescript draft script of preamble (introducing Abraham); 14pp copy of typescript programme script with manuscript revisions by Abraham.
- E.63 Brief correspondence *re* arrangements for an interview which Abraham agreed to give to Fulcrum Productions Ltd, April, May 1991.

SECTION F VISITS AND CONFERENCES

F.1-F.89

The material covers the period 1955-1995 and is arranged chronologically. Papers relating to undated and unidentified visits are at F.88, F.89.

See Section H for substantial further material relating to visits and conferences.

Visits and conferences

- F.1 3ème Congrès International de Biochimie, Brussels, Belgium, 1-6 August 1955.
- Abraham, with I.M. Lockhart gave a lecture 'Hydrogenolysis of bacitracin' and, with Guy Newton, 'Antibacterial peptides related to penicillin'.
- Copy of printed 'Résumés des Communications' (abstracts of the lectures).
-
- F.2 International Symposium on the Chemistry of Natural Products, Melbourne, Canberra and Sydney, Australia, 15-25 August 1960.
- The symposium was organised by the Australian Academy of Science and held under the auspices of the International Union of Pure and Applied Chemistry (IUPAC). Abraham, with Guy Newton, gave a lecture 'Degradation of cephalosporin C'.
- Copy of Symposium Handbook interleaved with pages of rough manuscript notes, some in Abraham's hand; copy of book of Abstracts of Papers, on 2pp of which (including inside back cover) are manuscript notes by Abraham; 2 loose pages of manuscript notes.
- See E.37, H.335-H.340 for related material.
-
- F.3 Conference (Gordon research Conference) on Medicinal Chemistry, Colby Junior College, New London, New Hampshire, USA, 30 July-3 August 1962.
- Abraham gave a lecture 'Biochemical and Microbiological Studies on Derivatives of 7-Amino-cephalosporanic Acid'.
- Programme with manuscript notes by Abraham on a number of pages; letter arising, July 1962.
- See also H.451, H.452.
-
- F.4 Cephaloridine Conference, New College Oxford, 13-16 March 1967.
- The conference was arranged jointly by the Fellowship of Postgraduate Medicine and Glaxo Laboratories Ltd. Abraham chaired one session for which he gave a short introductory speech.
- Letter *re* arrangements, with programmes; 1p copy of typescript of Abraham's speech entitled 'Cephaloridine - Historical Remarks'; 1p copy of typescript of Guy Newton's speech from the same session.

Visits and conferences

- F.5-F.10 Visit to the USA, April 1967.
- Abraham was invited to give lectures at the University of Wisconsin (one of a series of Rennebohm Lectures) and at a 'Penicillins and Cephalosporins' symposium held during the annual meeting of the American Academy of Pharmaceutical Sciences in Las Vegas.
- The papers described below were the contents of a single file.
- F.5, F.6 Rennebohm Lecture by Abraham, University of Wisconsin, 6 April 1967.
- The title of the lecture was 'Penicillins and Cephalosporins – their chemistry in relation to biological activity'.
- F.5 Correspondence *re* arrangements for Abraham's visit to the USA and for his lecture at the University of Wisconsin, December 1966-March 1967; programme for Rennebohm Lectures.
- F.6 39pp copy of typescript of lecture, with corrections and additions, and 1p manuscript figures.
- F.7, F.8 'Penicillins and Cephalosporins' symposium, Las Vegas, 9-14 April 1967.
- The title of Abraham's lecture was 'Penicillins and Cephalosporins – their chemistry in relation to biological properties'.
- F.7 Correspondence etc *re* invitation and arrangements, December 1965-March 1967.
- F.8 3pp typescript draft, with manuscript corrections, of abstract of Abraham's lecture.
- F.9 Correspondence arising from the two lectures and from the visit to the USA in general, November 1966-September 1967.
- F.10 Miscellaneous material found with the papers described in F.2-F.6, apparently unrelated to the USA visit: correspondence, mostly with organisations in the USA, August 1966-April 1967; 2pp manuscript notes probably for a lecture (or lectures), one page entitled 'Chicago'.

Visits and conferences

- F.11-F.15 5th International Congress of Chemotherapy, Vienna, 26 June-1 July 1967.

Abraham delivered a lecture 'Synthesis and Semisynthesis of Some Antibiotics'.
- F.11 Correspondence *re* arrangements, with conference programme, October 1966-June 1967.
- F.12, F.13 Correspondence arising, May 1967-April 1968.

2 folders.
- F.14 16pp manuscript draft of lecture, with corrections; 13pp corrected typescript version with manuscript annotations.
- F.15 Manuscript notes and typescript lists of 'technical terms', found with, and probably relating to, the drafts in F.14; programme from the Fifth Interscience Conference on Antimicrobial Agents and Chemotherapy and IVth International Congress of Chemotherapy, 1965, attended by Abraham; programme and other printed material, annotated by Abraham, from the Sixth Interscience Conference on Antimicrobial Agents and Chemotherapy 1966 which he does not appear to have attended.

This material was found with the papers in F.11-F.14.
- F.16-F.21 Visit to the USA, October 1967.

Abraham delivered lectures at the annual meeting of the Infectious Diseases Society of America and at the Seventh Interscience Conference on Antimicrobial Agents and Chemotherapy, both in Chicago.
- F.16-F.18 Annual meeting of the Infectious Diseases Society of America, 23 and 24 October 1967.

A provisional title for Abraham's lecture is given as 'Penicillinases and Cephalosporinases' in the preliminary programme at F.16.
- F.16 Correspondence etc *re* arrangements for the USA trip and for Abraham's participation at the meeting, with preliminary programme, May-October 1967.

Visits and conferences

- F.17 Correspondence arising, November 1967-January 1968.
- F.18 19pp typescript draft of lecture, headed 'Chicago', with manuscript corrections and revisions.
- F.19-F.21 Seventh Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, 25-27 October 1967.

Abraham, with Guy Newton and S. Kuwabara, lectured on 'Preliminary observations on the formation and spontaneous breakdown of "Cephalosporic acids" and their derivatives'.
- F.19 Correspondence *re* arrangements, with programme etc, May 1967.
- F.20 Correspondence arising, 1967.

Included is a letter, 1969, found with the material relating to this conference.
- F.21 Printed booklet of abstracts of the papers presented at the conference.
- F.22-F.25 Gregynog Natural Products Symposia, 1969-1975.

The purpose of the symposia, held in Gregynog Hall, Wales, was to facilitate communication between research workers in industry and academic institutions. In 1971 the event was re-named 'European Symposium on Bio-Organic Chemistry'.

Abraham participated in the 1973 and 1975 symposia.

The papers described in these folders were the contents of an original file inscribed 'Gregynog'.
- F.22, F.23 Invitation to the 1970 Gregynog Symposium.

Abraham agreed to participate in the event and partly prepared a lecture, but found he was unable to attend due to a mix-up in his diary.
- F.22 Correspondence *re* arrangements etc, with preliminary programme, July 1969-April 1970.

Included are a re-print of a paper co-authored by Abraham and a typescript bibliography, found with the correspondence in this folder.

Visits and conferences

- F.23 'Biosynthesis of Some Peptide Antibiotics'.
35pp typescript draft of Abraham's intended lecture so entitled, with manuscript corrections, and accompanying figures, tables etc.
- F.24 European Symposium on Bio-Organic Chemistry: 'Microbiological Chemistry', 18-21 May 1973.
Abraham delivered a lecture on 'Aspects of the Biosynthesis of Penicillin and Cephalosporin'.
Correspondence *re* arrangements, with programme etc, October 1972-April 1973.
- F.25 European Symposium on Bio-Organic Chemistry: 'Biosynthesis and Biotransformation', 16-19 May 1975.
Abraham chaired one of the lecture sessions.
Correspondence *re* arrangements and arising, with programme etc, December 1974-June 1975.
- F.26-F.31 8th [Italian] National Congress of Chemotherapy held by the Società Italiana di Chemioterapia (Italian Society of Chemotherapy), Sardinia, 8-[?9 or 10] May 1970.
Abraham was invited to give the opening lecture in a session on cephalosporins.
- F.26 Correspondence *re* arrangements, with programme, December 1969-April 1970.
- F.27 Correspondence arising, May-July 1970.
- F.28-F.31 'Reflections on the Development of the Cephalosporins', Abraham's lecture, published (after editing) in *Giornale Italiano di Chemioterapia*.
- F.28 12pp typescript draft, with corrections and revisions; copy of typescript of the lecture in Italian.
- F.29 19pp typescript of the lecture with manuscript editing (for publication).

Visits and conferences

- F.30 Copy of typescript of edited version with related photographs of chemical structures; copy of enclosing letter by Abraham, May 1970.
- F.31 Copy of galley proof with enclosing letter to Abraham, 1971.
- F.32 Symposium on Antibiotics, Quebec, Canada, 1-3 March 1971.

Organised by The Medicinal Chemistry Division of the Chemical Institute of Canada.

Programme listing Abraham as a lecturer on 'Penicillins and Cephalosporins'.

See H.351, H.352 for further papers concerning the symposium.
- F.33-F.36 FEBS Special Meeting on Industrial Aspects of Biochemistry, Dublin, 15-19 April 1973.

Abraham delivered a lecture at the symposium on 'Biological Syntheses'.
- F.33 Correspondence *re* arrangements and arising, with programme etc, August 1972-July 1973.
- F.34-F.36 'Studies on the Biosynthesis of Penicillins and Cephalosporins'.

Abraham's lecture, subsequently published in a 'volume' on the Symposium.
- F.34 2pp copy of typescript abstract of lecture with copy of enclosing letter by Abraham, January 1973; published volume of abstracts of lectures given at the conference.
- F.35 11pp incomplete typescript draft of lecture, with manuscript corrections; draft figures (for ?slides) and manuscript bibliography.
- F.36 20pp typescript draft, with manuscript corrections and revisions, entitled 'Penicillins, Cephalosporins and the Biosynthesis of Peptide Antibiotics by Fungi', by Abraham and Patricia Fawcett.

This appears to be a draft of the published version of the lecture with which Abraham required the help of a colleague due to lack of time.

Visits and conferences

- F.37 Penicillinase Workshop, University of Newcastle upon Tyne, 16-18 April 1975.
- Abraham introduced and chaired a panel discussion.
- Correspondence *re* arrangements, with programme, March 1975.
- On the back of one letter (12 March) are rough manuscript notes by Abraham relating to topics and other speakers.
-
- F.38-F.41 5th FEMS Symposium, Basel, Switzerland, 14-16 September 1977.
- Abraham gave a lecture on 'Developments in the Chemistry and Biochemistry of Beta-lactam Antibiotics'.
-
- F.38, F.39 Correspondence *re* arrangements and arising, with programme etc, February-August 1977.
- 2 folders.
-
- F.40 28pp copy of typescript of Abraham's lecture with manuscript corrections and revisions; copies of bibliography and figures (for ?slides).
- The lecture was published in a book (*Antibiotics and Other Secondary Metabolites*) containing the contributions made at the symposium.
-
- F.41 Correspondence *re* publication of lecture with corrected proof, 2pp manuscript notes and copies of figures (for ?slides). March-May 1978.
-
- F.42 'Future Prospects and Past Problems in Antimicrobial Therapy: the Role of Cefoxitin', Harvard Club of Boston, USA, 24 and 25 May 1978.
- Programme listing Abraham as an invited speaker.
- See H.465 for further papers *re* this conference.
-
- F.43, F.44 Table Rondes Roussel Uclaf: 'Mode of Action of Beta-Lactams', Paris, 6 and 7 December 1979.
- Organised by the Roussel Uclaf Group. Abraham participated as a moderator.

Visits and conferences

- F.43 Correspondence *re* arrangements, with list of participants etc, December 1978-November 1979.
- F.44 Correspondence with individuals at Division Scientifique Roussel Uclaf and Roussel Laboratories *re* various matters, one letter arising from the above conference, October 1979-July 1980.
- Found with the material in F.43.
- F.45-F.51 International Symposium on B-lactam Antibiotics: 'Mode of Action, New Developments and Future Prospects', New York University Post-Graduate Medical School, 29 September-2 October 1980.
- 'Launching the Antibiotic Era: Personal Accounts of the Discovery and Use of the First Antibiotics', a symposium held at the Rockefeller University, New York, on 23 October 1989.
- The papers relating to these two symposia were originally the contents of a file inscribed 'Rockefeller University / New York'.
- F.45-F.47 International Symposium on B-lactam Antibiotics, 1980.
- Abraham gave a lecture entitled 'Discovery, Chemistry and Antibacterial Properties of Cephalosporins'.
- F.45 Correspondence *re* arrangements, with programme etc, February-September 1980.
- F.46 1p manuscript notes for lecture; 13pp typescript of lecture with manuscript revisions (probably for publication).
- F.47 15pp copy of typescript of ?published version of lecture.
- F.48-F.51 Symposium 'Launching the Antibiotic Era', 1989.
- The symposium was held to celebrate the 50th anniversary of the discovery of Gramicidin by René Dubos. Abraham gave a lecture entitled 'Oxford, Howard Florey and World War II'. Abraham's lecture and the contributions by other speakers appeared in a subsequent Rockefeller University Press publication *Launching the Antibiotic Era*, New York 1990.

Visits and conferences

- F.48 Correspondence *re* arrangements, with programme, March-October 1989.
- F.49 1p manuscript notes for lecture; 12pp typescript draft of lecture with manuscript corrections; 15pp typescript of expanded version; off-print of the published lecture.
- F.50 Correspondence, mostly *re* publication, 1989-January 1991.
- F.51 Copy of Rockefeller University Newsletter including note about the symposium and some of the participants (including Abraham); copies of printed literature providing general background to the symposium.
- F.52, F.53 21st Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago, USA, 4-6 November 1981.

The subject of the conference was biosynthesis of B-lactam antibiotics. Abraham gave a lecture probably entitled 'Enzymes Involved in the Biosynthesis of Cephalosporin C'.
- F.52 Correspondence etc *re* arrangements and arising, April-October 1981.
- F.53 7pp typescript of lecture, with manuscript corrections, entitled as above and inscribed 'Written from memory after the Chicago meeting' on front page; 8pp typescript of the same with extensive manuscript revisions (probably for publication), the original title being altered to 'An Outline Biosynthesis of Beta-Lactam Antibiotics'.
- F.53A First ASEAN Workshop on 'Fermentation Technology applied to the utilization of food waste materials', Kuala Lumpur 22-24 February 1982.

6pp typescript copies of 2 lectures given by Abraham entitled 'B-lactam Antibiotics – an Outline' and 'Biosynthesis of B-lactam Antibiotics – an Outline'.

See H.424-H.426 for related material.

Visits and conferences

- F.54-F.57 13th International Congress of Chemotherapy, Vienna, 28 August-2 September 1983.
- At the conference Abraham was presented with the Hamao Umezawa Award for Chemotherapy by the International Society of Chemotherapy and gave an Award Lecture entitled 'Aspects of the Biosynthesis of Beta-Lactam Antibiotics'.
- F.54 Correspondence *re* arrangements, February-August 1983.
- F.55 6pp copy of typescript of Award Lecture, with brief manuscript annotations, and a few manuscript and typescript notes, possibly related; 14pp manuscript draft, with revisions, of unidentified lecture (on the biosynthesis of B-lactam antibiotics) headed 'Vienna'.
- F.56 Copies of 2 printed 'Proceedings' of sections of the conference, one co-edited by Abraham; printed news bulletin on the congress.
- F.57 Correspondence with individuals in Austria and West Germany *re* various matters, mostly unconnected with the congress 1982-1985.
- Found with the material in F.54-F.56.
- F.58, F.59 Meeting organised by E.R. Squibb & Sons Inc.: 'Therapeutics for a Changing World', Princeton University, 27 September 1983.
- Held to commemorate the 125th Anniversary of the founding of E.R. Squibb & Sons Inc.
- F.58 Correspondence *re* arrangements, July-September 1983.
- F.59 9pp untitled manuscript draft of lecture with revisions; first page of another manuscript draft of the same; 1p manuscript notes and 5pp annotated typescript information for lecture.
- F.60, F.61 607th Meeting of the Biochemical Society, Polytechnic of Central London, 19-21 December 1983.
- Abraham gave a lecture at a colloquium on 'Advances in the Biochemistry and Genetics of Antibiotic Producing Organisms'.

Visits and conferences

- F.60 Correspondence *re* arrangements, with typescript summary of Abraham's lecture and provisional programme, November 1982-November 1983.
- F.61 1p manuscript notes for the lecture; correspondence *re* publication, June-September 1984; 8pp copy of typescript published version of the lecture entitled 'Aspects of the Biosynthesis of Beta-Lactam Antibiotics', with bibliography and figures for slides.
- F.62-F.67 Visit to India, January 1985.
- The principal reason for Abraham's visit was to participate in the Asian Congress of Pharmacology, New Delhi, 14-19 January 1985. After the congress he visited the Indian Institute of Technology, Ciba Geigy Research Centre, and the Tata Institute of Fundamental Research (Bombay), Hindustan Antibiotics Ltd and the National Chemical Laboratory (Poona), the Indian Institute of Sciences (Bangalore), and the Central Food and Technology Research Institute (Mysore). He gave a total of five seminars.
- A photograph taken during this visit is at J.24.
- F.62, F.63 Correspondence *re* arrangements, with itineraries etc, February 1984-January 1985.
- 2 folders.
- F.64 Correspondence etc arising, February-March 1985.
- F.65-F.67 'Penicillins and Cephalosporins and Antibiotics of the future'.
- Lecture given by Abraham at the Asian Congress of Pharmacology.
- F.65 21pp typescript draft of lecture, with corrections and revisions, and related tables and information.
- F.66 23pp copy of revised version with copies of material for slides; 3 additional typescript pages, possibly part of the final text.
- F.67 Copy of printed abstract of the lecture, with possible manuscript draft of the same; 8pp manuscript notes and draft slides; manuscript notes found elsewhere, probably for this lecture (one page is headed 'New Delhi').

Visits and conferences

- F.68-F.71 Hoechst Workshop Conference on 'Regulation of Secondary Metabolite Formation', Schloss Gracht, Germany, 12-16 May 1985.
- Abraham gave a lecture 'Enzymes Involved in Penicillin and Cephalosporin Formation'.
- F.68 Correspondence *re* arrangements, with 2 annotated copies of programme, March 1984-May 1985.
- F.69 Correspondence arising; brief correspondence with German scientists *re* various matters. April-October 1985.
- F.70 3pp incomplete manuscript draft of Abraham's lecture with revisions; 14pp typescript of the lecture with additional pages of bibliographic references for possible publication.
- F.71 Typescript abstract of lecture with copy of earlier or expanded version; figures (for ?slides accompanying lecture).
- F.72-F.74 17th FEBS Meeting, West Berlin, 24-29 August 1986.
- Abraham gave a lecture entitled 'Beta lactamases' at one of the Meeting's symposia.
- F.72 Correspondence *re* arrangements and arising, November 1985-October 1986.
- F.73 1p manuscript draft outline of lecture; 18pp copy of typescript of lecture, with manuscript corrections; additional typescript pages and figures (for ?slides).
- F.74 1p typescript entitled 'Abstract'; manuscript notes for lecture; miscellaneous papers, probably relating to the lecture, including re-print of earlier article by Abraham.

Visits and conferences

- F.75-F.81 '50 Years of Penicillin Application', a Symposium in Honour of Abraham organized by the Technische Universität Berlin, West Berlin, 9-12 September 1990.
- Abraham gave a lecture entitled 'From Penicillins to Cephalosporins'.
- See J.28 for photographs taken at the event.
- F.75, F.76 Correspondence *re* arrangements, with programme, and correspondence arising, October 1989-December 1990.
- 2 folders.
- F.77-F.81 Abraham's lecture: 'From Penicillins to Cephalosporins'.
- The lecture was published in a book *50 Years of Penicillin Application - History and Trends* (Technische Universität Berlin).
- F.77 2pp manuscript and 1p typescript notes; 6pp and 2pp incomplete manuscript drafts with revisions; later 10pp typescript version with manuscript corrections and 1p manuscript list of references; 11pp typescript final version (for publication).
- F.78 Figures for slides.
- F.79-F.81 Correspondence *re* publication with expanded typescript version and corrected proofs, 1991-1994.
- 3 folders.
- F.82, F.83 Penicillin Symposium, University of Oxford, 28 September 1990.
- The event was held to mark the 50th anniversary of the publication of the paper on penicillin in the *Lancet* which described animal experiments. Abraham gave a lecture entitled 'Penicillin F and its Beta-lactam descendants: chance, motivation and personalities'.
- See J.40 for a videotape of this event, including Abraham's lecture.
- F.82 Correspondence etc *re* arrangements, with 1 letter arising, January-October 1990.

Visits and conferences

- F.83 1p typescript notes for Abraham's lecture; 1p typescript entitled 'Extract from the Will of Sir William Dunn'.
- F.84, F.85 Science and Medicine Conference, Royal College of Physicians, London, 6 and 7 November 1991.

Abraham gave a lecture entitled 'Overview: past history of penicillins and cephalosporins'.
- F.84 Correspondence *re* arrangements, with programme, and correspondence arising, March-November 1991.
- F.85 18pp typescript draft of lecture, with manuscript corrections and revisions, and drafts for accompanying slides.
- F.86, F.87 'Phenoxyethylpenicillin amidohydrolase from penicillium chrysogenum'.

Typescript drafts of a lecture so entitled, with manuscript revisions and corrections, [?1995].

Inscriptions on the drafts in F.86 indicate that the lecture was intended for a FEBS meeting.
- F.86 9pp draft with manuscript revisions, inscribed '1st Draft'; draft with manuscript corrections, inscribed '2nd Draft - reversibility - 6-APA?'.
- F.87 3 further drafts one entitled '4th Draft Oct 1995', with manuscript notes written to Abraham by another.
- F.88, F.89 Undated and unidentified visits.
- F.88 1 page of a manuscript draft of an unidentified lecture, n.d.
- F.89 Manuscript notes by Abraham for a lecture or lectures, n.d.

One page is headed 'New Delhi', another 'Biosynthesis'.

SECTION G	SOCIETIES AND ORGANISATIONS	G.1-G.90
G.1-G.5	AMERICAN ACADEMY OF ARTS AND SCIENCES	
G.6-G.20	AUSTRALIAN NATIONAL UNIVERSITY	
G.21-G.28	BIOCHEMICAL SOCIETY	
G.27-G.29	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE	
G.30-G.32	BRITISH COUNCIL	
G.33-G.39	BRITISH SOCIETY FOR ANTIMICROBIAL CHEMOTHERAPY	
G.40-G.44	CHEMICAL SOCIETY	
G.45-G.47	CIBA FOUNDATION	
G.48-G.57	COUNCIL FOR SCIENCE AND SOCIETY	
G.58-G.73	ROYAL SOCIETY	
G.74-G.78	ROYAL SOCIETY OF CHEMISTRY	
G.79-G.81	SOCIETY FOR GENERAL MICROBIOLOGY	
G.82-G.90	WELLCOME TRUST	

Societies and organisations

G.1-G.5 AMERICAN ACADEMY OF ARTS AND SCIENCES 1983-1985

Abraham was elected a foreign honorary member in 1983. In 1985 he gave an address to the Academy on 'Penicillin and its successors: a personal view'.

G.1-G.5 Correspondence and papers *re* honorary membership and address, 1983-1985.

Papers include manuscript notes and typescript drafts for address.

5 folders.

G.6-G.20 AUSTRALIAN NATIONAL UNIVERSITY 1981-1988

In 1981 Abraham accepted an invitation to join a newly formed Advisory Board for the John Curtin School of Medical Research. He attended its first meeting in Canberra, 24 September 1982 but does not appear to have attended subsequent meetings. Abraham's correspondent is the Director of the John Curtin School, R. Porter.

Correspondence, agenda, committee papers and minutes, 1981-1988.

G.6 Correspondence and papers, 1981.

Includes invitation for Abraham to serve on Advisory Board.

G.7-G.9 Correspondence and papers, 1982.

Includes papers about the Advisory Board and its first meeting.

3 folders.

G.10 Correspondence and papers, 1983.

Includes papers for second meeting of Advisory Board, 5 August 1983.

G.11 Correspondence and papers, 1984.

Includes papers for third meeting of Advisory Board, 6 July 1984.

Societies and organisations

- G.12-G.18 Correspondence and papers, 1985.
- Includes papers for fourth meeting of Advisory Board, 29 May 1985 and fifth meeting of Advisory Board, 25 September 1985.
- 7 folders.
- G.19 Correspondence and papers, 1986.
- G.20 Correspondence and papers, 1987-1988.
- G.21-G.26 BIOCHEMICAL SOCIETY 1981-1997**
- G.21 Miscellaneous correspondence and papers, 1981, 1984, 1989, 1992, 1997.
- G.22-G.26 Correspondence and papers *re* Abraham's participation in the Society's programme of video recordings and related matters, 1989-1993.
- 5 folders.
- Abraham was recorded in conversation with Professor Robert Thomas at Imperial College London on 1 May 1990. The interview was arranged by the Society's Honorary Archivist, Professor H.F. Bradford (see J.41 for a videotape of the interview).
- G.27-G.29 BRITISH ASSOCIATION FOR THE 1980, 1986-1988**
ADVANCEMENT OF SCIENCE
- G.27, G.28 Correspondence and papers *re* Abraham's 53rd Royal Society BAYS [British Association Youth Section] Lecture, 1980.
- Abraham delivered the lecture on 'Penicillin and after' at Gravesend School for Boys, Kent, 23 October 1980.
- 2 folders.

Societies and organisations

G.29 Correspondence and papers *re* the 1988 British Association for the Advancement of Science Annual Meeting at Oxford, 1986-1988.

G.30-G.32 BRITISH COUNCIL 1960-1975

Correspondence and papers *re* Abraham's involvement in British Council activities.

G.30 1960, 1963.

G.31 1964.

Includes papers *re* course on the use and abuse of antibiotics.

G.32 1965, 1970, 1975.

G.33-G.39 BRITISH SOCIETY FOR ANTIMICROBIAL CHEMISTRY 1972-1996

The Society was formed in August 1971 at the VIIth International Congress of Chemotherapy in Prague. Abraham was invited to join the Society in 1972 and became an honorary member in 1979. In 1974 he accepted an invitation to join the Editorial Board of the Society's new journal *Antimicrobial Chemotherapy*. Abraham delivered the 5th L.P. Garrod Lecture to the Society on 'B-Lactam Antibiotics: motivation, science and luck in their past and future', 21 November 1986.

Correspondence and papers.

G.33 1972, 1974, 1979.

G.34 1984-1986.

Includes typescript draft of Abraham's L.P. Garrod Lecture.

G.35 1991.

Societies and organisations

G.36 1992.

G.37 1993-1994.

G.38 1995.

G.39 1996.

G.40-G.44 CHEMICAL SOCIETY 1965-1979

G.40-G.43 Correspondence and papers *re* publications, meetings, protein group etc., 1965-1979.

G.40 1965-1968.

G.41 1969-1970.

G.42 1971-1973.

G.43 1975-1979.

G.44 Papers *re* symposium on 'Recent advances in the chemistry of B-lactam antibiotics', Cambridge, 28-30 June 1976.

G.45-G.47 THE CIBA FOUNDATION 1957-1979

G.45 Correspondence and papers *re* symposium on amino-acids and peptides held in March 1958, 1957-1958.

Societies and organisations

G.46 Correspondence and papers *re* study group on resistance of bacteria to the penicillins, 1961-1962.

G.47 Miscellaneous correspondence, 1973-1979.

G.48-G.57 COUNCIL FOR SCIENCE AND SOCIETY 1985-1986

The Council for Science and Society was founded in 1973 and published a number of reports on various social issues connected with science and technology. Abraham accepted an invitation in 1985 to join a study group on access to scientific information.

G.48-G.57 Correspondence and papers *re* the work of the study group.
10 folders.

G.58-G.73 THE ROYAL SOCIETY 1958-1998

Abraham was elected to the Fellowship of the Royal Society in 1958 (Royal Medal, 1973; Mullard Medal, 1980).

G.58-G.67 General correspondence and papers, 1958-1998.

G.58 1958-1961.

G.59 1962-1963.

G.60 1964-1968.

G.61 1970-1972.

G.62 1973-1976.

Societies and organisations

- G.63 1977-1978.
- G.64 1979-1982.
- G.65 1983-1989.
- G.66 1990-1994.
- G.67 1995-1998.
- G.68, G.69 Correspondence, papers and photographs *re* antibiotics exhibit for Royal Society Tercentenary exhibition, 1960.
2 folders.
- G.70-G.73 Correspondence and papers *re* elections, 1959-1995.
- G.70 1959-1968.
- G.71 1971-1979.
- G.72 1985-1989.
- G.73 1990-1995.
- G.74-G.78 ROYAL SOCIETY OF CHEMISTRY 1985-1995**
- G.74 General correspondence and papers, 1985-1995.

Societies and organisations

- G.75-G.77 Correspondence and papers *re* Centenary Tribute to Sir Robert Robinson at the 1986 Annual Congress, 1985-1987,

Abraham talked on 'Sir Robert Robinson and the early history of penicillin'.

3 folders.
- G.78 Correspondence and papers *re* article on 'The biosynthesis of penicillins and cephalosporins' written with J.E. Baldwin, 1985-1988.
- G.79-G.81 **SOCIETY FOR GENERAL MICROBIOLOGY** **1963-1997**

Abraham became a member in 1948 and resigned from the Society in 1997.
- G.79 Correspondence and papers *re* meeting etc, 1963.
- G.80 Correspondence and papers *re* publications, 1973, 1975.
- G.81 Correspondence and papers *re* publications, meetings and membership, 1981-1997.
- G.82-G.90 **WELLCOME TRUST** **1957-1989**

G.82-G.87 Correspondence and papers *re* Abraham's applications to the Wellcome Trust for grants for equipment, travel and to modernise / extend the chemical pathology section of the Oxford Department of Pathology, 1957-1965.

6 folders.
- G.88 Correspondence, 1979, 1981.

Societies and organisations

G.89, G.90

Correspondence with historians at the Wellcome Institute for the History of
Medicine, London, 1985-1989.

2 folders.

SECTION H

CORRESPONDENCE

H.1-H.563

H.1-H.334	SCIENTIFIC CORRESPONDENCE (presented alphabetically by individual)
H.335-H.495	SCIENTIFIC CORRESPONDENCE (presented alphabetically by country)
H.496-H.534	SHORTER SCIENTIFIC CORRESPONDENCE (chronological sequence)
H.535-H.563	REFERENCES AND RECOMMENDATIONS

Correspondence

H.1-H.334 SCIENTIFIC CORRESPONDENCE 1944-1998
(presented alphabetically by individual)

This sequence includes a large number of the scientists who researched in Abraham's laboratory including D.Phil. students, post-doctoral fellows and visiting scientists.

H.1 Baker, W.L. 1976

Baker was based at the Swinburne College of Technology, Hawthorn, Melbourne, Australia.

Correspondence *re* possibility of work on penicillin problems in Abraham's laboratory during sabbatical leave.

H.2-H.11 Baldwin, G.S. 1974-1992

Baldwin came to Abraham's laboratory from the University of Melbourne in 1975 to work for two years as a postdoctoral researcher on the mechanism of enzyme function. He was subsequently based at the University of Adelaide and the Ludwig Institute for Cancer Research, Melbourne Tumour Biology Unit, Australia.

H.2-H.6 Correspondence and papers *re* career and appointments, 1974-1992.

Includes references and recommendations.

H.2 1974.

H.3 1975.

H.4 1976-1978.

H.5 1980, 1983.

H.6 1991-1992.

H.7-H.11 Correspondence and papers *re* research and publications, 1975-1990.

Correspondence

- H.7 1975-1976.
Includes correspondence and report *re* work of M. Tully on the production of B-lactamase I and II, 1976.
- H.8 1976-1977 and n.d.
Includes manuscript drafts by Baldwin.
- H.9 1978.
Includes correspondence with R.P. Ambler, Department of Molecular Biology, University of Edinburgh.
- H.10 1979.
- H.11 1979-1981, 1985, 1990.
- H.12-H.19 Berks, M. (née McPhail) 1971-1996
Berks worked in Abraham's laboratory, 1971-1977, first as a research assistant and then as a post-doctoral researcher. She died in 1996.
Career, research, publications and personal news.
Includes references and recommendations.
8 folders.
- H.20 Betina, V. 1964-1972
Betina was based at the Department of Microbiology and Biochemistry, Slovak Polytechnic University, Bratislava, Czechoslovakia. He met Abraham at the 'Antibiotica Congressus' in Prague, 1964 and subsequently worked in Abraham's Laboratory for a period in 1966 on the antibiotic activity of cyanein supported by a World Health Organization Senior Research Training Grant.
Arrangements for visit, publication etc.

Correspondence

- H.21 Blackwell, C.M. 1977
- Blackwell was appointed to a two-year postdoctoral post in Abraham's laboratory in 1977.
- Appointment only.
- Includes recommendations.
-
- H.22-H.29 Bleaney, R.C. 1974-1978
- Bleaney was a postdoctoral organic chemist appointed to research in Abraham's laboratory on the synthesis of compounds related to penicillins and cephalosporins.
-
- H.22 Correspondence and papers *re* career and appointments, 1974-1978.
- Includes references and recommendations.
-
- H.23-H.29 Correspondence and papers *re* research, 1976-1978, n.d.
- 7 folders.
-
- H.30 Brannan, S. 1977
- Brannan was appointed to a two-year postdoctoral post in Abraham's laboratory, 1977.
- Appointment only.
- Includes references and recommendations.
-
- H.31-H.37 Brightwell, M. 1972-1975
- Brightwell came to Abraham's laboratory as a research assistant in 1972 to work on the structure and function of members of the penicillinase group of enzymes.
-
- H.31, H.32 Correspondence and papers *re* career and appointments, 1972-1975.
- Includes recommendations.
- 2 folders.

Correspondence

- H.67 Crawford, K. 1958, 1959, n.d.
- Crawford was a Departmental Demonstrator in the Oxford Department, commencing 1 December 1954.
- Includes report on 'The enzymes inactivating Cephalosporins P and N and Penicillin'.
- H.68-H.73 Crout, D.H.G. 1979-1984
- Crout was based at the Department of Chemistry, Exeter University.
- Correspondence and papers *re* research and publications.
- 6 folders.
- H.74-H.78 Davies, R.B. 1969-1974
- Davies was a D.Phil. student of Abraham's from October 1970.
- H.74 Correspondence and papers *re* career, 1969-1974.
- Includes references and recommendations.
- H.75-H.78 Correspondence and papers *re* research and publications, 1971-1974
- 4 folders.
- H.79 Dougall, D.K. 1953-1956
- Principally research reports.
- H.80 Duncan, M.J. 1965-1971
- Duncan was a D.Phil. student in the Sir William Dunn School of Pathology,
- Includes references and recommendations.

Correspondence

- H.81 Dyke, K.D.G. 1966-1967
- Correspondence and papers *re* research and career.
- Includes references and recommendations.
-
- H.82-H.84 Edwards, G.F. St L. 1974-1979
- Edwards worked in Abraham's laboratory as a post-doctoral research assistant, 1974-1977.
-
- H.82 Correspondence and papers *re* career and publication.
- Includes references and recommendations.
-
- H.83, H.84 Research notes and reports.
- 2 folders.
-
- H.85-H.91 Fawcett, P.A. 1971-1997
- After graduating from the School of Biological Sciences, University of East Anglia, Fawcett came to Oxford to work as a research assistant in Abraham's laboratory, taking a D.Phil. under his supervision. After a period in the USA she returned to England in 1979 and resumed research in Abraham's laboratory in 1983. Correspondence and papers from 1975 are under her married name of Whiteman.
- See also C.1075-C.1082.
-
- H.85 Correspondence *re* career, 1971-1975.
- Includes references and recommendations.
-
- H.86-H.91 Correspondence and papers *re* research, publications, etc., 1971-1997.
- 6 folders.
-
- H.92-H.97 Fisher, A.J. 1976-1980
- Fisher undertook D.Phil research under Abraham's supervision.

Correspondence

- H.108 Ghuysen, J.-M. 1976-1977
- Ghuysen was based at the University of Liège, Belgium.
- Correspondence *re* research.
-
- H.109, H.110 Glynn, M.F. 1970-1973
- Abraham took over Glynn's D.Phil. supervision on the sudden death of his previous supervisor.
- Principally *re* Glynn's Oxford D.Phil. thesis.
- 2 folders.
-
- H.111 Gore, P.J.M. 1975-1978
- Gore worked as a research assistant in Abraham's laboratory for a period from 1 February 1977
- Correspondence *re* career and research.
- Includes references and recommendations.
-
- H.112-H.115 Gunetileke, K.G. 1967-1978
- Gunetileke was a Sinhalese who came from the Department of Biochemistry, University of Toronto to spend a year in Abraham's laboratory, 1968-1969, as a postdoctoral fellow before returning to Ceylon. In Oxford he worked on problems relating to the biosynthesis of penicillins and cephalosporins. He died *ca* 1989.
- See also H.128.
-
- H.112, H.113 Correspondence *re* arrangements to work in Abraham's laboratory, subsequent career etc., 1967-1978.
- Includes references and recommendations.
- 2 folders.
-
- H.114, H.115 Research notes, September 1968-July 1969.
- 2 folders.

Correspondence

- H.122 Hopwood, D.A. 1982
- Hopwood was the head of the Department of Genetics, John Innes Institute, Norwich.
- Correspondence *re* research.
- H.123-H.125A Huddleston, J.A. (née Mitchell) 1974-1980
- Huddleston worked as a research assistant in Abraham's laboratory from October 1974.
- See C.698-C.833 for laboratory notes by Huddleston.
- H.123 Correspondence *re* appointment etc, 1974, 1980.
- H.124-H.125A Research notes and drafts.
- 3 folders.
- H.126-H.131 Jayatilake, G. S. 1978-1993
- Jayatilake was a Sri Lankan organic chemist who came to Abraham's laboratory in 1978 where he worked on the biosynthesis of penicillins and cephalosporins in cell-free systems.
- See C.251-C.268 for laboratory notes by Jayatilake.
- H.126-H.128 Correspondence and papers *re* career and appointments, 1978-1993.
- Principally references and recommendations.
- 3 folders.
- H.129-H.131 Research reports, printed material etc., 1979-1981, 1991.
- 3 folders.

Correspondence

H.132-H.134 Jeffery, J. 1959, 1970-1981

Jeffery was a graduate student in the Sir William Dunn School of Pathology, 1958-1961, working on the chemistry and biochemistry of a member of the cephalosporin family. After a period with ICI (Pharmaceuticals Division), Alderley Park, Cheshire he moved to the University of Aberdeen.

Correspondence and papers *re* career and appointments.

Principally references and recommendations.

3 folders.

H.135-H.139 Kasik, J.E. 1965-1986

In 1966 Kasik spent sabbatical leave from the Department of Medicine, University of Chicago researching in Abraham's laboratory where he worked on the relationship between penicillinase production and the sensitivity of mycobacteria to penicillins and cephalosporins. He returned to the University of Chicago, subsequently moving to the University of Iowa.

Correspondence *re* research, publications etc

5 folders.

H.140-H.148 Kenig, M.D.J. 1970-1976

Kenig came from the Beecham Research Laboratories, Brockham Park, Surrey, to undertake D.Phil. research on the peptide antibiotic bacilylsin under Abraham's supervision.

H.140, H.141 Correspondence *re* career and appointments, 1970-1974.

Includes references and recommendations.

2 folders.

H.142-H.148 Correspondence and papers *re* research and publications, 1971-1976.

7 folders.

H.149 Khuon, E. von 1984

Correspondence *re* proposed television documentary about Sir Alexander Fleming.

Correspondence

H.150-H.153

Kiener, P.A.

1973-1990

Kiener was a D. Phil. student (supervisor S.G. Waley) in the Sir William Dunn School of Pathology where he later did postdoctoral work. He researched on the active sites of two enzymes triosphosphate isomerase and B-lactamase I from *Bacillus cereus*.

Correspondence and papers *re* career and appointments.

Chiefly references and recommendations.

4 folders.

H.154-H.160

Kuwabara, S.

1964-1993

Kuwabara came to Abraham's laboratory as a postdoctoral member of his research staff paid for by the Medical Research Council from 1 January 1966. He was already an experienced enzymologist after working in the Netherlands and at a number of institutions in the USA. At Oxford he studied two extracellular B-lactamases (I and II) produced by *Bacillus cereus*. He was subsequently based at the Institute of Medical Science of the University of Tokyo, and the School of Medicine, University of Occupational & Environmental Health, Japan.

H.154, H.155

Correspondence *re* career and appointments, 1964-1970.

Includes references and recommendations.

2 folders.

H.156-H.160

Correspondence and papers *re* research, publications, etc, 1966-1978, 1985, 1993.

5 folders.

H.161-H.165

Loder, P.B.

1956-1975, 1986

Loder was graduate assistant to G.G.F. Newton in the Sir William Dunn School of Pathology, 1957-1959 and research assistant to Abraham, 1965-1966 and 1968-1972 working on cephalosporin and penicillin antibiotics. She moved from scientific research to administration in 1972 when she took a post at the head office of the Medical Research Council.

See C.234, C.235 for laboratory notes by Loder.

Correspondence

- H.161-H.163 Correspondence and papers *re* career and appointments, 1956-1975, 1986.
Includes references and recommendations.
3 folders.
- H.164, H.165 Research notes and drafts.
2 folders.
- H.166-H.169 Luego, J.M. 1979-1985
Luego came from the University of Salamanca, Spain to work in Abraham's laboratory as a postdoctoral fellow.
- H.166 Correspondence *re* arrangements to work in Abraham's laboratory including fellowship application, 1979-1981.
- H.167 Research report.
- H.168, H.169 Correspondence and papers *re* publications, 1985.
2 folders.
- H.170 Marston, R.Q. 1973
Marston was Director of the National Institutes of Health, Bethesda, Maryland, 1968-1973 (Rhodes Scholar, Lincoln College, Oxford, 1947).
Includes curriculum vitae and lists of addresses and publications.
- H.171-H.174 Migliacci, A. 1961-1963, 1969
Migliacci came from Farmitalia, Milan, Italy to work for a period in Abraham's laboratory. See also H.366.
Also found with papers relating to Migliacci were papers relating to the work of 'Mrs Jago'.
Correspondence and papers *re* research, 1961-1963, 1969, most undated.
4 folders.

Correspondence

- H.175-H.181 Miller, J.M.T. Hamilton- 1965-1981
- Hamilton-Miller came to Abraham's laboratory from Guy's Hospital Medical School in January 1967 with a Junior Research Fellowship from the Medical Research Council, subsequently moving to the Charing Cross Hospital Medical School and the Royal Free Hospital School of Medicine, London.
- H.175-H.179 Correspondence and papers *re* move to Oxford, research, publications etc., 1965-1979.
- 5 folders.
- H.180, H.181 Correspondence and papers *re* career and appointments, 1967-1971, 1981.
- Includes references and recommendations.
- 2 folders.
- H.182-H.196 Newton, G.G.F. 1944-1997
- Newton became a D.Phil. student in the Sir William Dunn School of Pathology in 1947 with Abraham as his supervisor. They continued to work together until his death in 1969. Much of the early work was concerned with antibiotic peptides such as bacitracin. Later Newton made substantial contributions to the isolation of Penicillin N and Cephalosporin C and the determination of their structures.
- Some of the money from the development of the cephalosporins was diverted into a Guy Newton Research Fund. His name was also commemorated in the title of a Visiting Professorship at Oxford in the Medical, Biological and Chemical Sciences which Abraham set up.
- See C.228, C.308, C.1042-C.1048 and elsewhere in section C for papers and correspondence relating to Newton's work.
- H.182-H.189 Correspondence and papers *re* career, research, publications, visits etc with Abraham and others, 1948-1968.
- Some of the letters from Abraham are undated and their assignment is tentative.
- H.182 1948-1955.
- Includes reports on work done, 1952-1953 and 1953-1954.

Correspondence

- H.183 1956-1957.
- H.184 1958-1959.
- H.185 1960-1965.
- H.186 1966.

Includes two copies of 'G.G.F. Newton - Senior Research Officer Report on first period of office. Oct. - Sept. 1966'.
- H.187 1967.

Includes 'Report on visit to the USA by E.P. Abraham and G.G.F. Newton October-November 1967'.
- H.188 1968.
- H.189 Undated papers.

Include 'Comments by GFN on HSB[urton]'s Declaration' and 'Possible experiments to be considered for the new Honours School of Physiological Sciences Experiments in "Chemical Pathology".'
- H.190 Letter from E.J. Farrar, Chief Chemist, to T.I. Williams at the Sir William Dunn School of Pathology, Oxford, 8 December 1944 with a 'rough draft of the few experimental fermentations, using *Aspergillus Fermagatus*, Mut. *Helvola* which we have been able to set up so far'.

Found with Newton's papers.
- H.191-H.194 Correspondence and papers arising from Newton's death including obituaries, January-September 1969.
- H.191 January.

Correspondence

- H.192 February.
- H.193 March.
- H.194 April - September.
- H.195 Correspondence about Newton or with or about members of his family, 1971-1997.
- H.196 Photographs.
- H.197-H.201 O'Sullivan, J. 1975-1994
Sullivan came from the Eidgenössische Technische Hochschule, Zürich, to work in a postdoctoral position in Abraham's laboratory, 1975-1979, on the biosynthesis of penicillins and cephalosporins. He subsequently made his career at the Squibb Institute for Medical Research, Princeton, New Jersey, USA.
- H.197-H.199 Correspondence and papers *re* career and appointments, 1975-1992
Includes references and recommendations.
3 folders.
- H.200, H.201 Correspondence and papers *re* research, publications etc, 1977-1994.
2 folders.
- H.202-H.211 Pang C.-P. 1975-1996
Pang was born in Hong Kong and took a first degree at Chelsea College, University of London, 1975-1978 before becoming a D. Phil. student at Oxford under Abraham's supervision, 1978-1981. He was a postdoctoral research assistant in Abraham's laboratory, 1982-1983. His career was subsequently based at the Department of Chemical Pathology, Faculty of Medicine, Chinese University of Hong Kong.
See C.284 for laboratory notes by Pang.

Correspondence

- /... In 1970 he accepted an invitation to become a Trustee of the E.P. Abraham Cephalosporin Fund.
See C.233 for laboratory notes by Sabath.
- H.232-H.245 Correspondence *re* arrangements to come to Oxford, research, publications and visits, 1962-1993.
- H.232 1962.
- H.233 1963.
- H.234 1964.
- H.235, H.236 1965.
2 folders.
- H.237, H.238 1966
2 folders.
- H.239 1967-1970.
- H.240, H.241 1971.
2 folders.
- H.242 1972-1973.
- H.243 1974-1975.
- H.244 1976-1985.

Correspondence

- H.245 1987-1993.
- H.246 Correspondence and papers *re* career and appointments, 1967,1972.
- H.247, H.248 Schaaf, C.H. 1971-1993
- Schaaf was Resident Representative of the United Nations Development Programme in Ceylon when the correspondence was initiated.
- Principally non-scientific correspondence but includes a few references to Abraham's work.
- 2 folders.
- H.249-H.253 Stevens, C.M. 1972-1980
- Stevens came from the Chemistry Department, Washington State University, Pullman to spend a sabbatical year in Abraham's laboratory, 1973-1974.
- Correspondence and papers *re* arrangements for sabbatical, research, publications etc.
- 5 folders.
- H.254, H.255 Thorniley, M.S. 1984-1986
- Thorniley was appointed as a research assistant in the Sir William Dunn School of Pathology from 1 October 1984. She worked on the isolation and properties of isopenicillin N synthetase, an enzyme with a central role in the biosynthesis of penicillins and cephalosporins.
- See C.1083-C.1088 for laboratory notes by Thorniley.
- H.254 Correspondence *re* appointment etc., 1984-1985.
- H.255 Research notes and drafts, 1986 and n.d.

Correspondence

- H.300 1971-1973, 1988, 1995, 1997.
- Walker's letter to Abraham of 10 August 1995 gave him 'the opportunity to write to ... express my appreciation of the help and guidance that you gave me at a critical time in my scientific development'.
- H.301 Correspondence and papers *re* career and appointments, 1969-1976.
- H.302 Warren, S.G. 1966-1967, 1980
- Warren was based at the Sir William Dunn School of Pathology, 1962-1966, working in close association with G.G.F. Newton on the problem of the biosynthesis of antibiotics by certain fungi.
- Correspondence *re* research and career.
- H.302 Includes recommendation.
- H.303-H.305 White, R.L. 1979-1989
- White came from McMaster University, Ontario, Canada in November 1979 to work as a Postdoctoral Fellow in Abraham's group on penicillin-cephalosporin biosynthesis, returning to Canada in 1981.
- Correspondence *re* research, publications, career and appointments.
- H.303-H.305 Includes references and recommendations.
- 3 folders.
- H.306-H.334 Wylie, J.A.H. 1968-1987
- Wylie was a microbiologist and experimental pathologist. He came to Oxford in 1945 as assistant bacteriologist in the Emergency Public Health Service, temporarily situated in the Sir William Dunn School of Pathology. After two years he became departmental demonstrator in the same building. He was helped through difficult times in his later years by many friends and former colleagues including Abraham.
- Correspondence and papers.
- H.306 1968.

Correspondence

H.307, H.308	1969. 2 folders.
H.309, H.310	1970. 2 folders.
H.311, H.312	1971. 2 folders.
H.313, H.314	1972. 2 folders.
H.315	1973.
H.316, H.317	1974. 2 folders.
H.318, H.319	1975. 2 folders.
H.320	1976.
H.321, H.322	1977. 2 folders.
H.323, H.324	1978. 2 folders.

Correspondence

- H.325 1979.
- H.326 1980-1981.
- H.327, H.328 1982.
2 folders.
- H.329 1983-1984.
- H.330 1985-1987.
- H.331 Correspondence and drafts *re* obituary of Wylie (published in *The Lancet*, 7 November 1987), 1987.
- H.332 Biographical information about Wylie including curriculum vitae and list of publications; photograph of Wylie.
- H.333, H.334 Copies of Wylie's publications in the history of medicine and the history of religion.
- H.335-H.495 SCIENTIFIC CORRESPONDENCE 1946-1995**
(Presented alphabetically by country)
- H.335-H.342 Australia 1959-1995**
- H.335-H.340 IUPAC International Symposium on the Chemistry of Natural Products, Melbourne, Canberra and Sydney, Australia, 15-25 August 1960.
See E.37, F.2 for related material.

Correspondence

- H.335-H.338 Correspondence *re* arrangements for Abraham to give a paper at the symposium with associated visits and travel, 1959-1960.
4 folders.
- H.339 Abraham's addresses, 3 August-1 October 1960; reprint of his symposium paper, etc.
- H.340 Correspondence arising from his visit to Australia, 1960-1961.
- H.341, H.342 Miscellaneous correspondence with Australian scientists, 1961-1995.
- H.341 1961-1966.
- H.342 1968-1972, 1976-1978, 1988, 1995.
- H.343-H.349 Belgium 1969-1993**
- H.343-H.346 European Meeting on Medicinal Chemistry, Brussels, 14-17 September 1970.
Abraham gave a plenary lecture on 'Some contributions of synthesis and semisynthesis to antibacterial and antiviral chemotherapy'.
- H.343 Correspondence *re* arrangements for meeting, publication of plenary lecture etc., 1969-1971.
- H.344 Programme, list of participants, etc.
- H.345 Typescript draft of Abraham's plenary lecture.
- H.346 Duplicated papers (? background material for lecture).

Correspondence

- H.347 Miscellaneous correspondence with Belgian scientists, 1972, 1976, 1983, 1978, 1989. 1993.
- H.348, H.349 Correspondence and papers *re* the George Sarton Chair, University of Ghent, 1988-1991.
- 2 folders.
- Abraham was chosen for the George Sarton Chair for the academic year, 1989-1990. He gave his Sarton Chair lecture on 'Reflections on the Development of the Penicillins and Cephalosporins'
- A typescript draft of Abraham's lecture is at H.349.
- H.350-H.353 Canada 1955-1985**
- H.350 Miscellaneous correspondence with Canadian scientists, 1955-1963.
- H.351, H.352 Correspondence and papers *re* Symposium on Antibiotics, Ste Marguerite, Quebec, 1-3 March 1971.
- Abraham gave a paper on 'Penicillins and Cephalosporins'.
- 2 folders.
- A typescript draft of Abraham's paper is at H.352.
- H.353 Miscellaneous correspondence with Canadian scientists, 1972-1973, 1981, 1985.
- H.354, H.355 China 1982-1987**
- H.354 Correspondence *re* review article by Abraham for the *Chinese Journal of Antibiotics*, with draft of article, 1982-1984.
- H.355 Correspondence *re* visit to Abraham's department by Chinese scientist, 1986-1987.

Correspondence

- | | | |
|---------------------|--|-----------------------------|
| H.356-H.360 | Czechoslovakia | 1960-1974, 1986 |
| H.356-H.358 | Correspondence and papers <i>re</i> Antibiotics Congress held in Prague, June 1964, 1960, 1963-1965.

1960 research correspondence was found with the Congress papers.

3 folders. | |
| H.359, H.360 | Miscellaneous correspondence with Czechoslovak scientists, 1961-1974, 1986.

2 folders. | |
| H.361-H.363 | Denmark | 1971-1972, 1982-1991 |
| H.361, H.362 | Correspondence and papers <i>re</i> Euchem Conference on Antibiotics Biosynthesis and Function held in Aarhus 28 August-2 September 1972, 1971-1972.

2 folders. | |
| H.363 | Miscellaneous correspondence with Danish scientists, 1982-1991. | |
| H.364, H.365 | Germany | 1970-1994 |
| | Miscellaneous correspondence with German scientists. | |
| H.364 | 1970-1979. | |
| H.365 | 1985-1994. | |
| H.366-H.377 | Italy | 1961-1991 |
| H.366 | Correspondence <i>re</i> arrangements etc for A. Migliacci of Farmitalia to work for a period of six months in Abraham's laboratory, 1961-1962.

See also H.171-H.174. | |

Correspondence

- H.367 Miscellaneous correspondence with Italian scientists, 1962-1965.
- H.368 Correspondence and papers *re* 6th International Congress of the International Society of Clinical Pathology held in Rome October 1966, 1965-1966.
- Abraham gave a paper on 'Old and New Antibiotics' in a symposium on the evaluation of antibiotic activity.
- H.369 Miscellaneous correspondence with Italian scientists and others, 1968-1971.
- In 1971 Abraham stayed for a short period at the Rockefeller Foundation's Villa Serbelloni, Bellagio to write his memoir of Lord Florey for the Royal Society.
- H.370 Miscellaneous correspondence with Italian scientists, 1973-1976.
- H.371 Correspondence and papers *re* scientific meetings held in Italy, 1978.
- Includes draft of Abraham's introductory remarks for round table on cerufoxime at 3rd International Symposium on 'Future Trends in Chemotherapy' held in Pisa, May 1978.
- H.372, H.373 Correspondence and papers *re* symposium on 'Action of Antibiotics in Patients' held in Florence 18 July 1981 and publication of proceedings, 1980-1981.
- Abraham gave a paper on 'Bioconversion of antibiotics'.
- The symposium was held just before the 12th International Congress of Chemotherapy, also held in Florence.
- 2 folders.
- H.374, H.375 Correspondence and papers *re* symposium 'From Genetic Experimentation of Biotechnology the Critical Transition' held in Rome, 20-23 September 1981, 1981.
- Abraham gave a paper on 'The development of penicillins and cephalosporins - similarities and contrasts'.
- 2 folders.

Correspondence

- H.376, H.377 Correspondence and papers *re* international meeting on 'Trends in Microbial Resistance to B-Lactam Antibiotics Molecular Aspects and Clinical Implications' held in L'Aquila and Rome, 12-15 May 1990. 1989-1991.
- The meeting marked the fiftieth anniversary of the paper by Abraham and E.B. Chain (*Nature*, Dec. 28, 1940) in which the ability of some bacterial extracts to destroy penicillin was reported.
- Abraham gave a paper on 'A retrospective view of B-lactamases'.
- See J.29 for a related photograph.
-
- H.378-H.381 **'India and Pakistan'** **1961-1987**
- Contents of folder so inscribed: correspondence and papers *re* research, publications and visits.
-
- H.378 1961-1969.
-
- H.379 1970-1979.
-
- H.380 1980-1987.
-
- H.381 'Herbal Therapeutics'.
- 29pp typescript by R.R. Chaudhury, n.d.
-
- H.382-H.421 **Japan** **1953-1992**
-
- H.382 Correspondence with Japanese scientists, 1953-1954, 1961-1962.
-
- H.383-H.388 Correspondence and papers *re* IUPAC Symposium on 'The Chemistry of Natural Products Kyoto, 12-18 April 1964, 1963-1964.
- 6 folders.

Correspondence

- H.389 Correspondence with Japanese scientists, 1965-1966.
- H.390 Correspondence with Japanese scientists, 1967.
Includes papers *re* the *Journal of Antibiotics*.
- H.391 Correspondence with Japanese scientists, 1968-1969.
- H.392 Correspondence with Japanese scientists and others, 1970-1971.
- H.393 Correspondence with Japanese scientists and others, 1972.
Abraham had to cancel a visit to Kyoto for the 4th International Fermentation Symposium, 19-25 March.
- H.394 Correspondence with Japanese scientists and others, 1973.
- H.395-H.400 Correspondence and papers *re* visit to Japan and the USA, 1974.
Abraham attended the First Intersectional Congress of the International Association of Microbiological Societies in Tokyo in early September and then flew to San Francisco for the Fourteenth Interscience Conference on Antimicrobial Agents and Chemotherapy.
6 folders.
- H.401 Correspondence with Japanese scientists, 1974-1977.
- H.402-H.408 Correspondence and papers *re* visit to Japan in 1977, 1976-1977.
Abraham attended a meeting to mark the 15th anniversary of the Microbial Chemistry Research Foundation Institute of Microbial Chemistry and the 30th anniversary of the *Journal of Antibiotics*, Tokyo, 25 and 26 October. He gave a lecture at the meeting on B-lactam Antibiotics and Related Substances. Abraham also visited other locations in Japan and India and Malaysia.
7 folders.

Correspondence

- H.409 Correspondence with Japanese scientists, 1978.
- H.410, H.411 Correspondence with Japanese scientists, 1979.
2 folders.
- H.412 Correspondence with Japanese scientists, 1980.

Includes 'A short history of the B-lactam antibiotics', 17pp typescript by Abraham for a volume on B-lactam antibiotics.
- H.413 Correspondence with Japanese scientists, 1981.
- H.414 Correspondence with Japanese scientists, 1982.
- H.415 Correspondence with Japanese scientists, 1983
- H.416 Correspondence with Japanese scientists, 1984.

Includes 'A brief history of the discovery of the penicillins and cephalosporins', 12pp typescript + references and figures by Abraham.
- H.417 Correspondence with Japanese scientists, 1985.

Includes Abraham's curriculum vitae after 1979.
- H.418 Correspondence with Japanese scientists, 1986

Includes Abraham's curriculum vitae.
- H.419 Correspondence with Japanese scientists, 1987-1988.

Includes correspondence and papers *re* obituary and memorial symposium for H. Umezawa, Director of the Microbial Chemistry Research Foundation Institute of Microbial Chemistry and *re Journal of Antibiotics*.

Correspondence

- H.420 Correspondence with Japanese scientists, 1989-1990.
Includes correspondence and papers *re Journal of Antibiotics*.
- H.421 Correspondence with S. Yamabe, System Director of Drug Research System International, 1991-1992.
- H.422-H.429 **'Malaysia'** **1976-1994**
The sequence includes correspondence with Singaporean scientists.
- H.422 Correspondence with Malaysian scientists, 1976-1977.
Includes invitation from Royal Society for Abraham to consider Royal Society Inter-University Council Visiting Professorship at the University of Malaya, Kuala Lumpur.
Abraham visited the Department of Genetics and Cellular Biology at the University for a few days in October 1977.
- H.423 Correspondence with Ho Coy Choke of the Department of Genetics and Cellular Biology, University of Malaya and others, 1980-1981.
- H.424-H.426 Correspondence and papers *re* First Asian Workshop on Fermentation Technology held in Kuala Lumpur, 22-24 February 1982, 1981-1982.
Abraham spoke at the Kuala Lumpur meeting on 'B-lactam Antibiotics' and the 'Biosynthesis of B-lactam Antibiotics'. He also visited Singapore and Sri Lanka.
See also F.53A.
3 folders.
- H.427 Correspondence with Malaysian and Singaporean scientists, 1982-1985.
- H.428 Correspondence with Malaysian and Singaporean scientists, 1986-1988.

Correspondence

- H.429 Correspondence with Ho Coy Choke, Department of Genetics and Cellular Biology, University of Malaya, 1989-1994.
- H.430-H.432 Spain 1970-1993**
- H.430 Correspondence *re* article on the chemistry of new antibiotics for *Tribuna Medica*, 1970-1971.
- H.431 Correspondence and papers *re* Third International Symposium on Yeast Protoplasts in Salamanca 2-5 October 1972, 1972.
- H.432 Correspondence with Spanish scientists *re* research and visits, 1978-1981, 1986, 1993.
- H.433-H.438 Sweden 1975-1992**
- H.433-H.437 Correspondence and papers *re* visit to Sweden in December 1975, 1975-1976.
- Abraham was invited by the British Council to visit the University of Umea and by the Pharmacological Society of Sweden to give its Scheele lecture.
- 5 folders.
- H.438 Correspondence with Swedish scientists and others, 1976, 1984-1992.
- H.439-H.493 USA 1946-1993, n.d.**
- H.439-H.464 General correspondence with American scientists and others, 1946-1991.
- H.439 1946-1949.
- H.440 1950-1951.

Correspondence

- | | |
|-------|---|
| H.441 | 1952 |
| H.442 | 1953. |
| H.443 | 1954. |
| H.444 | 1955 January-June. |
| H.445 | 1955 July-December. |
| H.446 | 1956-1957. |
| H.447 | 1958. |
| H.448 | 1959. |
| H.449 | 1960. |
| H.450 | 1961. |
| H.451 | 1962 January-April.
Includes papers <i>re</i> 1962 Gordon Conference on Medicinal Chemistry. |
| H.452 | 1962 May-December.
Includes papers <i>re</i> 1962 Gordon Conference on Medicinal Chemistry. |
| H.453 | 1963. |

Correspondence

H.454	1964.	
H.455	1965-1966.	
H.456	1967.	Includes short article on E.B. Chain written by Abraham for <i>Encyclopedia Americana</i> .
H.457	1968.	
H.458	1969.	
H.459	1970.	
H.460	1971-1972.	
H.461	1973.	Correspondence and papers <i>re</i> visit to the USA by Abraham in May.
H.462	1975, 1978-1979.	
H.463	1980-1981, 1984-1988.	
H.464	1990-1991, n.d.	
H.465-H.469	Harvard University	1978-1993 Correspondence with colleagues at Harvard <i>re</i> visits, conferences, lectures, publications etc.

Correspondence

- H.465 1978.
- Includes correspondence and papers *re* symposium on the cephalosporin derivative cefoxitin held at Harvard in May.
- Abraham gave a talk on the early history of the cephalosporins. Symposium proceedings were published in the first issue of *Reviews of Infectious Diseases*, January-February 1979.
- H.466 1979.
- Includes draft by Abraham on 'Fleming's Discovery' for *Reviews of Infectious Diseases*.
- H.467 1980-1984.
- H.468 1985.
- Includes partial draft, pp14-23, probably for Abraham's 1985 Maxwell Finland Lecture on the B-lactam antibiotics.
- H.469 1988, 1993.
- H.470, H.471 Lederle Laboratories 1959-1963
- Correspondence with colleagues at Lederle Laboratories, Pearl River, New York.
- H.470 1959-1960.
- H.471 1961-1963.
- H.472-H.476 Massachusetts Institute of Technology 1973-1991
- Correspondence with colleagues at the Massachusetts Institute of Technology *re* research, visits, publications etc.
- H.472 1973-1977.

Correspondence

- H.473 1978-1979.
- H.474 1980-1981.
Includes Abraham and N.G. Heatley's comments on the typescript of J.C. Sheehan's book *The enchanted ring: the untold story of penicillin* and Abraham's foreword for the book.
- H.475 1982.
- H.476 1983-1991.
- H.477-H.480 'Rutgers' 1957-1981
Contents of folder so inscribed: correspondence with colleagues at Rutgers University, New Brunswick, New Jersey and others.
In April 1957 Abraham gave the CIBA Lectures in Microbial Biochemistry at Rutgers. His topic was 'Biochemistry of Peptide and Steroid Antibiotics' and they were published in book form by John Wiley and Sons, New York.
- H.477 Correspondence *re* visit to Rutgers and other US research centres on the occasion of Abraham's CIBA Lectures, January-May 1957.
- H.478, H.479 Correspondence and papers *re* publication of lectures, June-December 1957.
2 folders.
- H.480 Correspondence with colleagues at Rutgers and others, 1957-1960, 1972-1981.
- H.481, H.482 University of California, Berkeley 1977-1988
Correspondence with colleagues at Berkeley, principally Melvin Calvin and others at the Laboratory of Chemical Biodynamics.
- H.481 1977-1980.

Correspondence

- H.482 1982-1988.
- H.483-H.493 University of Wisconsin-Madison 1973-1986
Correspondence with colleagues at Madison *re* research collaboration in the field of penicillin and cephalosporin biosynthesis, visits etc. Abraham's principal correspondent is C.J. Sih of the School of Pharmacy.
- H.483 1973 January-April.
- H.484 1973 May-June.
- H.485 1973 July-September.
- H.486 1973 October-December.
- H.487 1974 January-June.
- H.488 1974 July-November.
- H.489 1975 January-June.
- H.490 1975 August-September.
- H.491 1977.
- H.492 1978.
Includes papers *re* meeting on 'Mechanisms of B-lactam Antibiotics' at Madison, 15 December.
- H.493 1979-1986.

Correspondence

- | | |
|-------|--|
| H.504 | 1961. |
| H.505 | 1962. |
| H.506 | 1963.
Includes experimental results. |
| H.507 | 1964 January-June. |
| H.508 | 1964 July-December. |
| H.509 | 1965 January-May.
Includes 'Commentary & Dialogue' for ?radio broadcast on a new antibiotic from the fungus <i>cephalosporium</i> . |
| H.510 | 1965 June-November. |
| H.511 | 1966. |
| H.512 | 1967. |
| H.513 | 1968. |
| H.514 | 1969. |
| H.515 | 1970-1971. |
| H.516 | 1972. |

Correspondence

H.517 1973 January-June.

H.518 1973 August-December.

H.519 1974.

Includes review of book on protoplasts and article on 'Some British Contributions to Antibiotics and Progress in Chemotherapy', both by Abraham.

H.520 1975.

Includes short article on the cephalosporins by Abraham for the *Oxford Medical School Gazette*.

H.521 1976.

H.522 1977.

H.523 1978.

H.524 1979.

H.525 1980.

H.526 1981-1982.

H.527 1983-1985.

H.528 1986-1989.

Correspondence

H.529 1990-1991.

H.530 1992-1993.

H.531 1994.

H.532 1995.

H.533 1996-1998.

H.534 N.d.

H.535-H.563 REFERENCES AND RECOMMENDATIONS 1958-1996

H.535-H.549 Miscellaneous correspondence and papers *re* appointments, promotions, grant applications etc, 1958-1996.

H.535 1958, 1964-1966.

H.536 1967-1969.

H.537 1970-1971.

H.538 1972-1976.

H.539 1977.

Correspondence

H.540	1978-1979.	
H.541	1980-1982.	
H.542	1983-1984.	
H.543	1985-1986.	
H.544, H.545	1988. 2 folders.	
H.546	1989.	
H.547	1991.	
H.548	1992-1994.	
H.549	1995-1996.	
H.550-H.559	Indian higher education and research institutions Correspondence and papers <i>re</i> external examining.	1961-1976
H.550, H.551	Andhra University 2 folders.	1962-1964
H.552	Banaras Hindu University	1962-1963

Correspondence

H.553-H.558	Indian Institute of Science, Bangalore	1961-1976
H.553	1961-1962.	
H.554	1964-1965.	
H.555	1965.	
H.556	1967-1968.	
H.557	1968-1969.	
H.558	1974-1976.	
H.559	University of Calcutta	1965
H.560-H.563	Malaysia	1977-1994.
	Correspondence <i>re</i> external examining and refereeing for the University of Malaya.	
H.560	1977-1979.	
H.561	1984.	
H.562	1985-1989.	
H.563	1994.	

SECTION J

NON-TEXT MATERIAL

J.1-J.43

J.1-J.31 PHOTOGRAPHS

J.32-J.38 SLIDES

J.39-J.43 VIDEOTAPES

Non-text material

J.1-J.31	PHOTOGRAPHS	1930-1995, n.d.
	J.1-J.15	Abraham and family
	J.17-J.31	Visits, events and colleagues
J.1-J.15	Abraham and family	1930-ca 1990, n.d.
J.1, J.2	2 photographs (mounted) of school hockey teams, including Abraham The photograph in J.1 is inscribed 'King Edward VI School. Hockey Eleven 1930'. 2 folders.	
J.3	Photograph (mounted) of school rugby team, including Abraham, inscribed 'School 2nd XV 1930'.	
J.4	Abraham in group photograph (mounted), possibly from his undergraduate years, 1932-1936.	
J.5	Abraham seated on a terrace, possibly on a visit to Norway, n.d.	
J.6	Abraham and [?his wife] on a picnic, n.d.	
J.7	2 photographs of Abraham standing in a room, location unknown, n.d.	
J.8	Portrait of Abraham, n.d.	
J.9	Abraham and his wife, inscribed on verso 'Dr and Mrs Abraham, June 1975'.	
J.10	Abraham at home, inscribed '19 February 1978, by S. Kuwabara.'	

Non-text material

- J.11 Abraham, with mountain scenery in background, possibly taken in Norway, 1979.
- J.12 Portrait of Abraham in later years seated at a desk, n.d.
- J.13 Portrait of Abraham in later years.
- J.14 Abraham standing on a roof top, possibly of his home, n.d.
- J.15 Abraham reading in a chair in later years.
- J.16-J.31 Visits, events and colleagues ca 1938-1995, n.d.**
- Various photographs of Abraham and some of his colleagues and others taken at conferences and events.
- J.16 Photographs, one each of Abraham [ca 1938-1950]; Ernst Chain, n.d.; and Howard Florey, n.d.
- J.17 Group photograph of Abraham and other Royal Society medallists, 1980, inscribed 'Sir Denys Wilkinson, Professor W.F. Vinen, Dr. J.P. Wild, Sir Edward Abraham, Dr. F.J.M Farley, Dr. C. Milstein, Professor A.W Johnson, Sir Derek Barton, Professor Henry Harris, Professor Wright'.

Abraham received the Mullard Prize in 1980.
- J.18 Photograph of a portrait of Robert Robinson with inscription: 'Pleased to have your photo in the D.P album. Original at R. Soc. rooms', 4 November 1955.
- J.19 Photograph of Guy Newton, n.d.

Non-text material

- J.20 Abraham and Edwin H. Flynn in front of an exhibition display. Labelled on verso: 'Professor E.P Abraham, who was involved in the early development work on the cephalosporins in Oxford, recently visited Eli Lilly in Indianapolis. He is shown with Dr. Edwin H. Flynn, one of the Lilly scientists who contributed to the development of this new antibiotic "family" '. N.d.
- J.21 Abraham and Edwin H. Flynn in front of an exhibition display. Labelled on verso as in J.20.
- J.22 Photograph of Abraham's wife with various people, including Henry Harris, n.d.
- J.23 Abraham, in later years, seated in an audience at a ?conference, n.d.
- J.24 Photograph of Abraham with Indian scientists, taken during his visit to India in January 1985.

The names of the Indian scientists, as inscribed on verso, are R.K. Nand, P.V. Deshmukh, Rama Rao (from National Chemical Laboratory), P.S Borkar, N.R. Chatterjee'.

This appears to have been taken on Abraham's visit to India in January / February 1985 (see F.62-F.67).
- J.25 Group photograph of Abraham and colleagues inscribed 'Sir Edward Abraham's visit to the Hope Library [Oxford] on Tuesday, October 10th 1989'

Abraham visited the Hope Library to mark an extension to the Library made possible by a grant from the E.P. Abraham Cephalosporin Fund.

Also featured are. F.B. Atkins, Curator of Mineralogical Collections; T. S Kemp, Curator of Zoological Collections; D. Spencer Smith; J.D.C. McConnell, Dept. of Earth Sciences; W.J. Kennedy, Curator of Geological Collections; S.J. Simpson, Principal Curator; G.A. Harrison, Chairman of the Committee for Scientific Collections.'
- J.26, J.27 Award of Honorary Doctor of Science Degree ceremony at Strathclyde University, 13 July 1989.

See also J.39.
- J.26 Abraham and other Honorary graduands, including Jack Baldwin.

Non-text material

- J.27 Abraham with Chancellor of Strathclyde University.
- J.28 '50 Years of Penicillin Application', a symposium organized by the Technische Universität Berlin, West Berlin, 9-12 September 1980.
- Various photographs taken at the symposium, contents of an envelope inscribed 'Photographs Berlin, sent 1990', sent from the Technical University of Berlin'. Included is one of Abraham delivering a lecture.
- See F.75-F.81 for correspondence and papers re the symposium.
- J.29 International meeting on 'Trends in Microbial Resistance to B-lactam Antibiotics: Molecular Aspects and Clinical Implications', held in L'Aquila and Rome, 12-15 May 1990.
- Photograph of Abraham, inscribed 'Int. Congress T.M.R.A-L'Aquila and Rome May 12-15 1990.'
- See H.376, H.377 for correspondence re this meeting.
- J.30 Visit by Abraham to King Edward VI School, Southampton, his old school.
- Various photographs, contents of an envelope inscribed 'Portrait by Daphne Tod, Sent 1991'.
- J.31 Photograph inscribed 'John Walker, Admission to R. S. 1995'.
- J.32-J.38 SLIDES 1978, n.d.**
- J.32-J.34 Lantern Slides Undated**
- J.32 1 box of 3 lantern slides contained in a box labelled 'Pen. Chem.' Slides used for a lecture.
- J.33 1 box of 41 lantern slides used to illustrate a lecture or lectures on penicillin.
- J.34 1 box of 13 slides labelled 'Ceph. Mycelin Electron Micrographs'.

Non-text material

/... In the conversation Abraham recollects parts of his early career, giving anecdotes, and gives a detailed account of the development of penicillin and the cephalosporins. The video case also contains two pieces of correspondence.

See G.22-G.26 for further material relating to this interview.

J.42 'The Action of antibodies on Bacteria'.

J.43 'Cephalosporins in Perspective'.

INDEX OF CORRESPONDENTS

ABBOTT LABORATORIES	H.443-H.446
ACADEMIC PRESS INC. (LONDON)	C.613, D.123, D.275, F.41, H.512 See also C.649-C-664
ACHESON, R.M.	H.218
ADAM AND CHARLES BLACK LTD	D.91, D.134
ADIS PRESS LTD	D.236, D.237, D.239
ALBERT, Adrien	H.337, H.340
ALBERTI, Carlo G.	H.367
ALDERTON, Gordon	H.442
ALTON, Jeannine Beatrice	A.104
AMBLER, Richard P.	H.9 See also H.75
AMERICAN ACADEMY OF ARTS AND SCIENCES	G.1-G.5
AMERICAN CYANAMID COMPANY	H.444, H.445, H.503
AMERICAN PHARMACEUTICAL SOCIETY	H.456
ANSLOW, Gladys A.	H.477
<i>ANTIMICROBIAL AGENTS AND CHEMOTHERAPY</i>	F.20
ANWAR, Rashid A.	H.112
ARNSTEIN, H.R.V.	G.68
ASIAN CONGRESS OF PHARMACOLOGY	F.62, F.63, H.515 See also F.65-F.67
ASSOCIATION FOR SCIENCE EDUCATION	E.62
ASTRA PHARMACEUTICALS AB	H.433-H.435, H.438, H.498
<i>AUSTRALASIAN JOURNAL OF PHARMACY</i>	H.340
AUSTRALIAN NATIONAL UNIVERSITY	D.34, D.46, G.6-G.20
AUSTRIAN, Robert	H.508, H.510
AZIZ, Ungku A.	H.422

Index of correspondents

BACHMANN, Lawrence P.	F.82
BADDILEY, Sir James	H.98
BAKER, John Randal	D.41, D.42, D.62
BAKER, Warren Leslie	H.1
BAKER, Wilson	C.188, G.70, H.228, H.229, H.519
BALDWIN, Graham Sherard	G.7, H.2-H.11, H.363
BALDWIN, Sir Jack Edward	C.455, C.457, C.460, C.520, C.523, C.625-C.628, C.688, C.695, C.912, C.913, F.75, G.63, G.78, H.126, H.301, H.472, H.525, H.526 See also C.696, C.697, H.533
BALLIO, A.	H.369
BANYARD, Michael R.C.	G.7
BARBER, Mary	See H.503, H.505
BARD, Basil J.A.	H.184, H.191
BARKER, G.R.	H.12
BARKER, S.A.	H.213
BARNES, John Morrisson	D.53, D.54, H.313
BARTLEY, W.	See H.504
BATCHELOR, F.R.	H.506
BAUER, Karl	H.364
BAZELEY, P.L.	H.336
BAXTER, R.	H.493
BEECHAM PHARMACEUTICALS	D.135
BEECHAM RESEARCH LABORATORIES LTD	C.304, C.305, H.184, H.506, H.514
BEESON, Paul Bruce	D.58, D.162

Index of correspondents

BENEDICT, Robert G.	H.441
BEN-ET, G.	H.142
BERGMEYER, J.	H.525
BERKS, Jonathan	H.19
BERKS, Mary (née McPHAIL)	H.12-H.19
BERNHEIMER, Alan W.	C.991
BERNLOHR, Robert W.	H.447
BETINA, Vladimir	F.10, H.20, H.191 See also H.502
BETTER BUSINESS PROMOTION INC.	H.413, H.414
BEVAN, E.A.	H.17
BICKEL, H.	F.12
BIDE, Sir Austin Ernest	D.137
BINON, F.	H.343
<i>BIOCHEMICAL JOURNAL</i>	C.323, D.117, D.118, D.125, D.127, D.221, D.242, D.271- D.274, H.478 See also H.500
BIOCHEMICAL SOCIETY	D.131, F.61, G.21-G.26
<i>BIOCHEMIE</i>	F.57
<i>BIOESSAYS</i>	D.247
BIRCH, Arthur John	See H.501, H.502
BLACK, Sir Douglas Andrew Kilgour	D.165
BLACKWELL, Carol Mary	H.21
BLAKE, Robert William Norman, Baron	A.26, D.106
BLAKEWAY, John D.	H.185
BLAXTER, Sir Kenneth Lyon	H.536
BLAZEJ, Anton	H.359
BLEANEY, Roger Clive	H.22-H.29

Index of correspondents

BLOCH, Konrad	G.1, G.2, H.469
BODANSZKY, Miklos	F.9, H.512
BOHONOS, Nestor	H.448, H.470, H.471, H.477, H.502, H.507
BOMAN, Hans G.	H.434, H.435
BOND, Godfrey W.	H.260
BOOTS PURE DRUG CO. LTD	H.506
BORN, Gustav Victor Rudolf	C.928, G.61, H.109
BOROWSKI, Edward	H.50, H.51
BOYS, Omar R.	H.185
BRADFORD, Harry F.	F.76, G.22-G.25
BRANDL, Ernst	F.13, F.57
BRANNAN, Sarah	H.30
BRAZHNIKOVA, M.	H.494, H.495
BRIGHTWELL, Malcolm	H.31-H.37
BRIGHTWELL, R.	H.513
BRISTOL-MYERS COMPANY	C.615
BRITISH BROADCASTING CORPORATION	D.100, D.101, E.43, E.45, E.48, E.49
BRITISH COUNCIL	G.30-G.32, H.336, H.396, H.413, H.424, H.425, H.433- H.435, H.495, H.561
<i>BRITISH MEDICAL JOURNAL</i>	D.31, D.114, D.275, H.508 See also H.502
BRITISH SOCIETY FOR ANTIMICROBIAL CHEMISTRY	G.33-G.39
BRITISH TECHNOLOGY GROUP see NATIONAL RESEARCH DEVELOPMENT CORPORATION	
BRITTON, H.G.	G.24
BRÖTZU, Giuseppe	C.1038, C.1041, F.27, H.38- H.42, H.367 See also C.412, C.426, C.1066, C.1067

Index of correspondents

BROWN, Nigel L.	G.65
BROWNE, C.A.	H.43
BROWNLEE, George Gow	H.44, H.268
BRUMFITT, William	D.59
BRUNET, P.C.J.	H.92
BRUNT, P.A.	H.508, H.510
BUD, Robert	H.533
BULLARD, Sir Reader William	D.62
BU'LOCK, J.D.	H.85, H.256, H.511
BURTON, Henry S.	C.470, D.75 See also C.325
BUSSE, Louis W.	H.491
BYCROFT, Barrie W.	H.89, H.489
BYNUM, W.F.	G.89
CAHN, R.S.	H.501 See also H.498, H.503, H.504
CAIN, James C.	D.136, D.137, F.7, F.9, H.385, H.388, H.395, H.396, H.399, H.413, H.435, H.461 See also H.501
CALLOW, Donald	D.140
CALVIN, Melvin	H.448, H.451, H.454, H.460, H.477, H.481, H.482, H.521 See also H.501, H.504
CAMERON, G.R.	H.499
CANNON, D.L.	H.518, H.519
CENTRAALBUREAU VOOR SCHIMMELCULTURES	C.1041
CHAIN, Anne Beloff, Lady	D.135, D.137, D.138, D.140, D.141, D.161, D.172

Index of correspondents

CHAIN, Sir Ernst Boris	C.179, C.197, D.164-D.166, H.259 See also C.989, H.499. H.514
CHALMERS, D.K.M.	D.67
CHAS. PFIZER & CO. INC	C.884, C.886, H.479
CHATTAWAY, F.W.	H.217
CHAUDHURY, Ranjit Roy	F.62-F.64, H.45-H.49, H.247, H.336, H.378, H.379, H.424, H.425, H.450 See also H.381
THE CHEMICAL SOCIETY	C.884, C.885, C.887, D.275, G.40-G.44
<i>CHEMISTRY IN BRITAIN</i>	H.192, H.194
CHEN Han Yuan	H.355
CHEN Yee Foong	H.427
CHIBNALL, Albert Charles	H.501
<i>CHINESE JOURNAL OF ANTIBIOTICS</i>	H.354
CHMARA, Henryk	H.50-H.52
CHRISTIAN, John Wyrill	G.62
CIBA FOUNDATION	G.45-G.47
CIBA LTD	C.616-C.620, C.883, C.886
CIBA PHARMACEUTICALS PRODUCTS INC	H.450, H.453, H.477, H.479
CIMMINO, Aldo	H.374
CITRI, Nathan	H.509, H.515 See also H.503, H.504
CLAES, P.	H.347
CLARENDON PRESS, OXFORD	H.511
CLARKE, Hans T.	See H.439
COGHILL, Robert D.	H.443-H.445
COHN, Zanvil A.	F.48, F.50

Index of correspondents

COMMERCIAL SOLVENTS (GREAT BRITAIN) LTD	H.190
COOMBE, R.G.	H.53, H.54
COONEY, Charles L.	H.130, H.474, H.475
COOPER, Bernard A.	H.109
CORCORAN, John W.	D.191, H.201, H.462
CORNELIS, Guy	H.55-H.66
CORNFORTH, Sir John Warcup ('Kappa')	C.989, H.230, H.522
COUNCIL FOR SCIENCE AND SOCIETY	G.48-G.57
COWEN, David L.	D.138
COWEY, Alan	G.65
CRAIG, Lyman C.	H.440, H.441, H.443, H.444, H.446, H.447, H.449, H.477
CRAM, Donald J.	See H.499
CRAWFORD, K.	H.67
CRESPI, R. Stephen	H.529
CROOKS, Harry M., Jr	H.443-H.445
CROSSLEY, Maxwell J.	H.342
CROUT, David H.G.	H.68-H.73
CUELLO, A.C.	H.353
CUMMINS, C.S.	G.68 See also H.500
CURTIN, John	D.75
CYANAMID OF GREAT BRITAIN LIMITED	H.448
DAINTON, Frederick Sydney, Baron	G.2, H.527, H.528
DALGLIESH, Douglas G.	H.75, H.518
DATTA, Naomi	H.20, H.360
DAVIDSON, B.E.	H.2
DAVIDSON, J.N.	G.70

Index of correspondents

DAVIES, Richard Brownlow	H.74-H.78
DAVIS, Bernard D.	G.68
DEMAIN, Arnold L.	H.392, H.393, H.460, H.472- H.474, H.476, H.519, H.521, H.524, H.526
DHALIWAL, S.S.	H.423
<i>DICTIONARY OF NATIONAL BIOGRAPHY</i>	D.228, D.231
DIDDENS, Heike	H.216, H.218, H.364
THE DISTILLERS COMPANY LTD	C.621-C.624, C.1042, C.1043
DIVISION SCIENTIFIQUE ROUSSEL UCLAF	F.43, F.44
DOCTOR, V.M.	H.378
DODDS, Sir (Edward) Charles	D.48
DOI, Roy H.	H.463
DOLL, Sir (William) Richard (Shaboe)	H.259
DOUGALL, Donald K.	H.79, H.336, H.340 See also H.499
DRURY, Sir Alan Nigel	D.41
DUNCAN, Margaret Janet	H.80
DYKE, Keith G.H.	H.3, H.81
DYSON PERINS LABORATORY	C.625-C.632
E.R. SQUIBB & SONS INC.	E.51, F.58
EBERT, Robert H.	D.59, D.162
EDWARDS, Giles F. St L.	H.82-H.84
EDWARDS, Sir Ronald Stanley	B.42, D.61
ELI LILLY AND COMPANY	C.362, C.485, C.505, C.633- C.881 <i>passim</i> , H.85, H.89, H.184, H.337, H.446, H.452, H.477, H.493
ELSEVIER PUBLISHING COMPANY	D.275, D.276, H.519

Index of correspondents

ELVIDGE, John A.	H.23
EMBORG, Claus	H.363
<i>ENCICLOPEDIA MEDICA ITALIANA</i>	D.11
<i>ENCYCLOPEDIA AMERICANA</i>	F.10, H.456
<i>ENDEAVOUR</i>	D.2-D.10, D.130, D.180
ENNOR, Sir A. Hugh	D.42, H.336, H.338
ERDTMAN, Gunhild	H.438, H.496, H.504
ERDTMAN, Holger	H.501
ERICSON, Hans	D.162, H.434
ERIKSEN, K. Riewarts	H.497, H.505, H.506
ETTLINGER, L.	H.197
EUROPEAN SYMPOSIUM ON BIO-ORGANIC CHEMISTRY (ESBOC)	F.24, F.25
EVANS, Sir David Gwynne	H.32
EULER, Hans von	A.18, G.23 See also H.500
FALK, Leslie A.	D.76, H.452
FARQUHARSON, John	H.184
FARRAR, E.J.	H.190
FAWCETT, Patricia Angela	H.85-H.91
<i>FEBS LETTERS</i>	D.227
FENNER, Frank	D.62, H.342
FILDES, Sir Paul Gordon	D.49, H.308, H.507, H.511, H.512
FINLAND, Maxwell	D.59, H.235, H.273, H.430, H.458 See also H.452, H.468
FISHER, Adrian John	H.92-H.97
FITZGERALD, Robert J.	H.442

Index of correspondents

FLEMING, Sir Alexander	See H.497
FLEMING, Peter C.	H.350
FLOREY, Howard Walter, Baron	C.300, C.358, C.362, C.466, C.471, C.504, C.893, C.1038, C.1044, C.1048, C.1070, D.42, D.47, D.66, D.70-D.75, D.139, D.164, H.477 See also D.76, H.500, H.512
FLOREY, Margaret, Lady	D.48, D.49, D.57, D.63, D.103, D.105, D.162, H.162
FLOREY, Mary Ethel, Lady	D.70, D.71, D.103
FLOSS, Heinz G.	H.415
FLYNN, Edwin H.	C.477, F.10, H.184, H.191, H.461
FOLKSON, Aleck	H.307, H.308, H.310, H.313
FORD, Brian J.	H.520
THE FORD FOUNDATION	H.449, H.454, H.461, H.516, H.520
FOWDEN, Sir Leslie	G.60, H.513, H.514, H.541 See also H.506
FRAMM, Joachim	H.513, H.518
FRANK, Sir (Frederick) Charles	G.63
FREEMAN, Richard F.	H.98
FREESE, Ernst	H.85
FUJISAWA, Y.	H.519
FUJISAWA PHARMACEUTICAL CO. LTD	C.488, C.510, H.385, H.388, H.389, H.391, H.401, H.404, H.409, H.411, H.412
FUKUMURA, Takashi	H.99, H.402-H.404, H.409, H.411
FULLER, Keith W.	H.100
FULTON, John Farquar	D.70-D.72
FUNDER, Sigurd	H.498

Index of correspondents

FURTH, Anna J.	H.101-H.107, H.413
GADDUM, Sir John Henry	H.507
GAIT, M.J.	H.214
GALE, Ernest Frederick	C.964, C.965, C.967, G.68, G.70, H.219 See also H.500, H.505
GARDNER, Arthur Duncan	D.52, D.61 See H.319, H.320
GARDNER, Joan	D.48
GARROD, Lawrence Paul	C.341, C.399, D.61, D.64, D.104, H.511, H.505 See also H.502, H.506
GAUCHER, G.M.	H.353
GAUSE, G.F.	H.494, H.495 See also H.493
GEIGY RESEARCH LABORATORIES	H.450-H.452
GENERAL ELECTRIC COMPANY	H.446
GHUYSSEN, Jean-Marie	H.108, H.347, H.514
GIBSON, William C.	D.50
GILVARG, Charles	H.142, H.213, H.216, H.217, H.396, H.519
GLAXO GROUP LTD	C.488, C.882-C.913, G.27
GLAXO LABORATORIES LTD	C.231, C.304, C.305, C.363, C.1048, G.68, H.186, H.191 See also H.501
GLAXO RESEARCH LTD	G.40
GLOVER, S.W.	G.81, H.143
GLYNN, M.F.	H.109
GMELIN, Rolf	H.508, H.509
GODTFREDSSEN, Sven	H.363
GODTFREDSSEN, W.O.	H.361, H.363, H.505 See also H.508

Index of correspondents

GOLDBLITH, Samuel A.	H.476, H.482
GOODMAN, Arnold Abraham, Baron	D.139
GOODWIN, Trevor Walworth	G.21, H.21
GORDON, Siamon	F.82
GORE, Pamela Jean Marian	H.111
GOTTLEIB, David	D.275, H.455, H.456
GOULDEN, Steve A.	H.186, H.191
GOWANS, Sir James Learmonth	H.527
GOWING, Margaret Mary	B.78, D.64, D.135, D.163
GRAHAM, Christopher Forbes	H.525
GRASSI, Giuliana Gialdroni	F.26, F.27, F.30
GREAT BRITAIN AND NORTHERN IRELAND	
MINISTRY OF HEALTH	H.495
GREEN, Vivian Hubert Howerd	B.39, B.40, B.44, H.323
GREENSTEIN, Jesse P.	H.447
GREGORY, Roderic Alfred	H.195, H.519
GRÖGER, D.	H.364, H.522
GROSKLAGS, J.H.	H.454
GRUCHY, G. Carl de	D.59, H.342
GUILLET, James	H.353
GUNETILEKE, Kapugama Geeganage	H.112-H.115
GUTFREUND, Herbert	C.964 See also H.498, H.501
HADDOW, Sir Alexander	H.306
HALE, Clifford William	C.287-C.307 passim, C.309, C.1043, C.1045, C.1046, D.13
HAMILTON-MILLER	See MILLER

Index of correspondents

HANBURY, Harold	B.53, H.507
HANCOCK, R.	H.452, H.453
HANES, Charles Samuel	H.112
HANKS, John H.	H.479
HARE, Ronald	D.61
HARINGTON, Sir Charles Robert	C.326, C.330, C.1044
HARLEY, John Laker	H.519, H.524
HARRÉ, H.R.	See H.512
HARRIS, Sir Henry	G.58, G.59, H.116-H.118 See also H.321, H.499, H.503, H.504, J.48
HARTLEY, Brian Selby	H.99
HARUNG, Harald Steinar	H.518
HASH, John H.	H.515
HASHIMOTO, Masashi	H.412
HASSALL, Cedric Herbert	G.65, H.512 See also H.503
HAYES, William	G.60
HEATH, Sir Edward Richard George	D.165
HEATLEY, Norman George	A.102, A.103, B.40, B.49, C.1039, C.1041, D.70, D.71, D.76, D.101, D.104, D.138, H.119-H.121, H.331 See also J.48
HEDEGAARD, Jens	H.362
HEIDELBERGER, Charles	H.439, H.440, H.449 See also H.337, H.338
HEIWINKEL, Heinz	H.498, H.504
HEMING, A.E.	H.337
HEN Nga Been	H.423-H.425
HENDERSON, David Willis Wilson	C.477, C.929, C.931, C.990

Index of correspondents

HENNESSEY, Robert Samuel Fleming	C.322
HERBERT, Richard B.	G.78
HERBERTSON, Stig	H.499
HEROLD, M.	H.356, H.357, H.359, H.506
<i>HETEROCYCLES</i>	H.410, H.411
HEYNINGEN, Ruth VAN	H.522
HEYNINGEN, William Edward VAN	D.162, H.502
HIGUCHI, Takeru	H.511
HIMSWORTH, Sir Harold Percival	C.322
HINDUSTAN ANTIBIOTICS LTD	F.62, F.64, H.378-H.380
HINSHELWOOD, Sir Cyril Norman	G.70, H.498
HIRD, F.J.R.	H.2
HO Coy Choke	H.422-H.425, H.427, H.428, H.545, H.560, H.562, H.563
HOBBY, Gladys L.	H.462, H.463, H.479
HODGKIN, Dorothy Mary Crowfoot	C.304, C.465, C.471, C.1069, H.350, H.526 See also H.524
HOFFMAN - LA ROCHE INC.	H.450
HOLMLUND, Chester E.	H.470
HOLT, Geoffrey	H.111
HOLTERMAN, Hugo	H.497, H.498
HOOD, J.L. Linsley	H.509
HOPE, Derek B.	H.513
HOPWOOD, Sir David Alan	G.64, H.122
HOSTALEK, Z.	H.356, H.506
HOWIE, Sir James William	D.62
HUDDLESTON, Joyce Anne	H.123-H.125A
HUGHES, David E.	H.513

Index of correspondents

HUTCHINGS, B.L.	H.471
IBANEZ, Felix Marti	H.440
IKAWA, Miyoshi	H.447
IMADA, Akira	H.218, H.414
IMPERIAL CHEMICAL INDUSTRIES LTD	C.199, C.914-C.921
INFECTIOUS DISEASES SOCIETY OF AMERICA	C.952, C.959, F.16, F.17
<i>INTERNATIONAL JOURNAL OF ENVIRONMENTAL STUDIES</i>	D.132
INTERNATIONAL SOCIETY OF CHEMOTHERAPY	F.54
INTER-UNIVERSITY COUNCIL FOR HIGHER EDUCATION OVERSEAS	H.535
J.A. KEMP & CO., Chartered Patent Agents	H.518, H.519
JACKSON, Willis, Baron	D.104
JAGO, Margaret	H.506
THE JAPAN ACADEMY	H.395, H.400
JAPAN ANTIBIOTICS RESEARCH ASSOCIATION	H.382, H.390, H.404
JARBOE, Charles H.	H.457
JAWETZ, Ernest	H.441
JAYATILAKE, Gamini Senerath	H.126-H.131
JEFFERSON, Sir Geoffrey	D.75
JEFFERY, Jonathan	H.132-H.134, H.191 See also H.503
JEPHCOTT, Sir Harry	D.61
JOHN WILLEY & SONS LTD	H.374, H.447, H.478-H.480
JOHNSON, Alan Woodworth	H.259, H.260
JOHNSON, Marvin J.	H.337
JOLL, James	See H.315, H.316

Index of correspondents

- JONES, Sir Ewart Ray Herbert ('Tim') C.496, C.1089, H.231, H.256, H.391, H.518, H.522
See also H.497, H.499, H.500
- JONES, Hardin B. H.439
- JORPES, J. Erik H.500, H.502, H.503
See also H.501
- JOURNAL OF ANTIBIOTICS* D.277-D.281, F.52, H.188, H.193, H.390, H.391-H.393, H.396, H.411, H.419, H.420, H.459
- JOURNAL OF GENERAL MICROBIOLOGY* D.207, D.275, H.478
- JOURNAL OF INFECTIOUS DISEASES* H.465
- JOURNAL OF PHARMACY AND PHARMACOLOGY* D.275
- KAMETANI, Tetsuji H.410, H.411
- KANZAKI, Toshihiko H.395, H.401
- KASCHE, V. H.365
- KASIK, John E. F.16, H.135-H.139, H.188
- KASS, Edward H. D.60, D.162, H.462, H.465-H.469, H.536
See also G.1
- KATO, Koichi H.404, H.409, H.410, H.417, H.420
See also G.23
- KATZ, Sir Bernard D.165, D.166
- KATZ, Edward H.358, H.447-H.449, H.454, H.455, H.480
- KAY, Robert H.18
- KELLY, Brendan Kevin C.287-C.307 passim, C.472, C.473, C.1042, C.1043, C.1045, C.1046
See also H.499
- KENIG, Martin D.J. H.140-H.148
- KENNER, George Wallace B.81, F.22, G.60, H.182, H.191, H.192
See also H.501, H.502

Index of correspondents

KHUON, Ernst von	H.149
KIENER, Peter Alexander	H.150-H.153
KISHIDA, Yukichi	H.415
KITAHARA, Kakuo	H.388
KITANO, Kazuaki	H.401, H.417
KJAER, Anders	H.503, H.505
KLEINKAUF, Horst	E.26, E.28, E.31, F.68, F.69, F.75, F.76, F.81, H.364, H.365, H.532, H.533
KLENK, Grete	H.509
KLUENDER, Harold	H.483-H.485
KLYNE, W.	H.507
KNIGHT, Bert Cyril James Gabriel	D.63
KNOWLES, Jeremy Randall	G.2, G.63, G.72, G.73, H.465-H.467, H.469, H.523 See also A.38
KNOX, James	H.459, H.520
KNOX, Robert	H.175
KORNBERG, Sir Hans Leo	H.214
KRYNSKI, Stefan	See H.499
KUMMERLE, H.P.	A.34
KURABAWA, Seishi	H.154-H.160, H.394, H.396, H.400, H.401, H.404
KURAHASHI, Kiyoshi	H.393, H.394
KURAHAWA, Shogo	H.416
KUROYA, Musahiko	H.382
KURTI, Nicholas	A.104
KUZNETSOV, V.D.	H.494
LABIA, R.	H.16
LAMPEN, J. Oliver	H.480

Index of correspondents

<i>THE LANCET</i>	C.946
LANDMAN, Otto E.	H.450-H.452
LANDOR, S.R.	H.516, H.517
LANSING, David	H.461
LEAF, Alexander	D.60
LEDERBERG, Joshua	G.68 See also H.499
LEDERLE LABORATORIES	H.443, H.454, H.470, H.471, H.477, H.507, H.502 See also H.502
LEFEBVRE, G.	H.527
LEIN, Joseph	H.390, H.423, H.450, H.462, H.475
LEO LABORATORIES LTD	E.62
LEO PHARMACEUTICAL PRODUCTS LTD	H.361, H.363, H.504, H.505, H.508
LEONARD, F.	H.450-H.452
LEWIN, J.	H.439
LEWIS, G.	H.516
LEWIS, Harold E.	D.40
LEWIS, J.C.	H.497
LEWY, Rudolf	D.138
LIDDELL, Edward George Tandy ('Pat')	D.49, D.58
LIERSCH, M.	F.39
LILLY RESEARCH LABORATORIES	C.883, C.886, C.994, D.121, F.10, F.20, H.442, H.443, H.446, H.447, H.461, H.484 See also C.1047
LINNANE, Anthony W.	H.342, H.516
LJUNGBERG, Sixten	H.433
LODER, John W.	H.162

Index of correspondents

LODER, Patricia Bronwen	H.161-H.165 See also H.341
LOMAKINA, Nina	H.495
LONG, Alan G.	G.40
LÖSEL, Dorothy M.	H.197
LOVE, Jack W.	H.188, H.191, H.512
LOWBURY, Edward J.L.	D.59, H.516
LUEGO, José Maria	H.166-H.169, H.432
LUSH, Brandon	H.81
McELROY, W.D.	H.154
McFADZEAN, A.J.S.	H.336
MACFARLANE, Robert Gwyn	D.64, D.104, D.105, D.107, D.136, D.137, D.139, D.161, D.163, D.166, G.70, H.316
McGRAW-HILL BOOK COMPANY	A.2
McHARDY, Jack	H.514 See also H.527
MacKEITH, Ronald Charles	D.60, D.62
MADDOX, Sir John Royden	H.512
MAEDA, Kenji	H.396, H.400-H.402
MAEGRAITH, Brian Gilmore	D.50
MAGNUSSON, Staffan	H.506
MAKINS, John	H.524
MANDELSTAM, Joel	H.81, H.141, H.299, H.511, H.543
MARCO, A. Di	H.171, H.366 See also H.498-H.500
MARCUS, Abraham	H.307
MARGREITER, Hans	F.11, F.13 See also H.499-H.501, H.503

Index of correspondents

MARKHAM, Roy	G.70
MARSTON, Robert Quarles	B.39, B.40, C.959, F.50, H.170, H.459, H.463 See also H.195
MARTIN, Sir David Christie	D.40, D.44
MARTIN, Joseph J.	H.447
MARTIN, Juan Francisco	H.166, H.432, H.533
MASLEN, E.N.	H.341, H.342
MATHISON, G.E.	H.197
MAXWELL, Ian Robert	H.320, H.507
<i>MEDICAL NEWS</i>	D.15
MEDICAL RESEARCH COUNCIL	C.393, C.1045, D.47, D.54, D.66-D.69, D.139, H.184
ANTIBIOTICS RESEARCH STATION	C.287-C.303, C.1042- C.1046
MEISTER, Alton	H.443
MELLANBY, Sir Edward	C.199, C.205, D.66-D.69
MERCK & CO. INC.	C.467, C.884, C.886, C.922- C.928, C.991, C.992 See also C.1047
MERRICK, M.J.	H.520
MICHEL, Charles	H.267
MICHEL, G.	H.218
MICROBIOLOGICAL RESEARCH ESTABLISHMENT, PORTON DOWN, WILTSHIRE	C.405, C.929-C.940, C.1010
MIGLIACCI, Adele ('Lilli')	H.171-H.174, H.191, H.366, H.367
MILES, Sir (Arnold) Ashley	D.75, H.306
MILLER, C. Phillip	H.439
MILLER, Duane D.	H.512
MILLER, Jeremy Marcus Tom HAMILTON-	H.175-H.181 See H.506

Index of correspondents

MILLS, John	H.463
MILLSTEIN, César	G.62
MINGOS, D.M.P.	A.101
MITCHELL, Peter Dennis	G.62, G.68 See also H.500
MITCHISON, D.A.	H.517
MITSUHASHI, S.	H.402, H.410-H.413
MIYASAKI, M.	H.385, H.388
MIZUSHIMA, Sanichiro	H.409
MOBERG, Carol	F.50
MOLE, R.H.	See H.498
MOORE, Stanford	H.337, H.439, H.442, H.447, H.500 See also H.522
MORE, Robert H.	H.350
MORGAN, Walter Thomas James	H.156
MORIN, Robert B.	H.460
MORRELL, Jack	H.231, H.528, H.533
MOSES, Vivian	H.512
MUIR, Helen	H.510, H.522
MUNEKATA, Masanobu	H.394
MURRAY, Keith Anderson Hope, Baron	D.41, D.42, D.58
NAKANO, H.	H.391, H.392
NATIONAL RESEARCH DEVELOPMENT CORPORATION	B.58, C.303, C.307, C.358- C.605, C.633-C.640 passim, C.666, C.684, C.922, C.923, C.930, C.947, C.977, C.978, C.980-C.984, C.1047, C.1048, C.1060-C.1062, C.1066, F.7, F.52, H.75, H.184, H.191, H.197, H.385, H.395, H.396, H.413, H.435, H.461, H.519, H.526, H.527 See also H.501

Index of correspondents

<i>NATURE</i>	D.18, D.19, D.28, D.92, D.96, D.225, D.252, D.285, D.286, H.192, H.512, H.535
NAVASHIN, S.	H.494
NEEDHAM, Joseph	C.964 See also H.502
NELSON, John D.	H.473
NEUBERGER, Albert	D.137, D.140, D.141, H.507 See also H.311
NEWTON, Anthony	H.195
NEWTON, B.A.	G.68
NEWTON, Guy Geoffrey Frederick	C.290, C.294, C.297, C.331, C.359, C.362, C.467, C.470, C.475, C.478, C.487, C.488, C.890, C.893, C.990, C.1042, C.1043, C.1045, C.1047, C.1048, F.9, H.161, H.182-H.196, H.302
NEWTON, Rosemary Enid	H.191-H.194, H.516
NICKERSON, Walter J.	H.477
NIEMANN, Carl	H.439
NISHIDA, Minoru	H.391
NOMINE, G.	H.343
NOVO INDUSTRI A/S	H.363
OAKSHOTT, Sir Walter Fraser	B.41, B.53 See also B.56
OGAWARA, Hiroshi	H.410, H.411, H.413
O'GRADY, Francis	E.29, H.517-H.519
OHARA, M.	H.388, H.389
OKADA, H.	H.393
OKAMI, Yoshiro	H.259, H.260, H.261, H.392, H.401, H.402, H.404, H.410, H.411, H.417-H.419
OKI, Michinori	H.267

Index of correspondents

OLLIS, William David	C.977-C.986, D.63, G.61, H.508
OLSON, Birger H.	H.444, H.445, H.450
ORATORE, Arduino	H.376
O'SULLIVAN, Joseph	H.197-H.201
OTSUKA, Hideo	H.409
OWEN, David Anthony Llewellyn	D.165
OWEN, John B.	B.38
OWEN, Samuel Griffith	H.170
THE OXFORD SOCIETY	D.95, D.103
OXFORD UNIVERSITY PRESS	D.233, D.234, D.287, H.231, H.515
PAGE, M.I.	H.523
PAGE, WHITE & FARRER, Chartered Patent Agents	H.511
PAINE, Tom	H.446
PALISSA, Harriet	H.528
PANG Chi-Pui ('Calvin')	H.202-H.212
PARK, James T.	H.212
PARKE, DAVIS & COMPANY	H.443-H.445
PARKER, Charles W.	H.452, H.453
PARRY, Adam	H.460
PARRY, Barbara Lillian	A.109, A.110 See also H.517
PARRY, Catherine	A.109
PATON, Sir William Drummond Macdonald	A.99, E.6, G.61, H.319, H.324-H.326
PATTERSON, Ernest L.	H.471
PAYNE, J.W.	H.218
PEBERDY, John F.	H.431

Index of correspondents

PEIERLS, Sir Rudolf Ernst	G.61
PELCZAR, Michael J., Jr	H.464, H.521
PELLING, Margaret	H.525
PENNEY, William George, Baron	D.140
PERGAMON PRESS LTD	H.507
PERHAM, Richard Nelson	G.72
PERLMAN, David	D.59, F.9, F.10, F.11, H.187, H.188, H.191, H.298, H.300, H.459, H.460, H.484, H.485, H.491, H.492, H.511 See also H.448
PERUTZ, Max Ferdinand	D.167, D.226
PETERSON, W.H.	H.445, H.447
PFIZER INC.	C.941-C.943
PFIZER LTD	H.444
<i>PHARMACOLOGICAL REVIEWS</i>	C.282
PHILLIPS, Charles Garrett	H.306-H.316, H.318, H.319, H.321, H.323, H.324, H.331
PHILLIPS, David Chilton, Baron	D.136, D.139, D.140, G.63, H.2, H.513, H.505, H.524
PICKERING, Sir George	H.508
PIRIE, Antoinette ('Tony')	H.290
PIRIE, Norman Wingate ('Bill')	D.45, D.58, H.378
PISANO, Michael A.	H.448, H.449, H.453, H.463, H.514 See also H.517
POLLOCK, Martin Rivers	C.323-C.333, C.968-C.971, F.9, F.10, G.70-G.72, H.75, H.81, H.510, H.511 See also H.501
POMERAT, Gerard P.	H.439
PORATH, Jerker	H.498
PORTER, Robert	G.6-G.20

Index of correspondents

PORTER, Rodney Robert	D.131
PORTER, Ruth	H.470 See also H.502
POSTGATE, John Raymond	H.98
POUND, Allan W.	H.342
PREOBRAJENSKAYA, T.P.	H.494
PREMABAI, M.	H.378
PRICE, J.R.	H.335, H.336
QUAYLE, John Rodney	G.71
QUEENER, Stephen W.	F.52, H.128
QUINN, Jack A.	F.7, F.9, F.10, H.449, H.454, H.461, H.516, H.520 See also H.512
RAKE, Geoffrey W.	C.946
RAKHIT, S.	H.351, H.353
RAMALINGASWAMI, Vulimiri	G.65
RANDLE, Sir Philip John	G.65, H.527
RAPER, Kenneth B.	H.441, H.493
RENKONEN, K.O.	H.498
<i>REVIEWS OF INFECTIOUS DISEASES</i>	H.466, H.467
REYNOLDS, Thelma M.	H.338
RICHARDS, Eva, Lady	H.69
RICHARDS, Sir Rex Edward	G.61, H.513 See also H.466
RICHARDSON, Elliot Lee	H.170
RICHMOND, Sir Mark Henry	D.58, H.16, H.227, H.525
RINEHART, Kenneth L., Jr	H.455
RINGROSE, Peter S.	H.217, H.218
RIVETT, Robert W.	H.446

Index of correspondents

ROBERTSON, J.S.	H.340
ROBERTSON, James S.	D.41
ROBINSON, Sir Robert	C.186, C.188, C.197, C.199, C.205, C.508, D.63, D.166, H.228-H.231, H.335, H.508, H.519 See also C.989, H.502, H.503
ROBINSON, Stearn, Lady	H.230
ROCHE PRODUCTS LTD	H.217, H.218
ROCKEFELLER FOUNDATION	H.369, H.370, H.439, H.458, H.460
ROGERS, David E.	B.40
ROGERS, Howard J.	H.81
ROSE, Francis Leslie	C.915-C.921
ROSENHEIM, Max Leonard, Baron	D.59, H.307-H.310, H.313
ROYAL COLLEGE OF PHYSICIANS	F.84 See also F.85
ROYAL INSTITUTE OF CHEMISTRY	G.42, H.541
ROYAL SOCIETY	A.27, A.33, D.40, D.45, D.47, D.53, D.54, D.57, D.135, D.141, E.35, F.62, F.63, G.27, G.58-G.73, H.256, H.261, H.383, H.385, H.422, H.538, H.543, H.544
ROYAL SOCIETY OF CHEMISTRY	G.74-G.78, H.545
RUDINGER, J.	H.357, H.359 See also H.504, H.505
RUSSELL, Peter E.	D.64
SABATH, Leon David ('Lee')	C.400, C.949, F.9, F.16, F.82, H.191, H.232-H.246, H.372, H.373, H.461, H.536 See also H.451-H.453, H.509
SAINO, Yushi	H.414

Index of correspondents

SALTON, Milton Robert James	G.68 See also H.501
SANGER, Frederick	C.964, G.71
SANKAWA, Ushio	H.420
SAUBER, K.	F.69
SAUGMAN, Per	B.39, B.41, D.63
SAUKKONEN, Jussi J.	H.505
SAWADA, Yosuke	H.473
SCHAAF, C. Hart	H.247, H.248, H.336, H.337 See also H.502, H.503, H.515
SCHAEFFER, Pierre	C.990, C.992
SCHAFFNER, Carl P.	H.480
SCHOENTAL, Regina	G.65
SCHON, Sir Frank	D.59
<i>SCIENCE JOURNAL</i>	H.510
<i>SCIENTIFIC AMERICAN</i>	D.183, D.184
SELWYN, Sydney	H.522, H.523
SEXTON, W.A.	C.914-C.919
SHALL, Sydney	H.31
SHAMMA, Maurice	H.126
SHARPLESS, K. Barry	H.267
SHAW, Robert W.	H.516
SHEEHAN, John Clark	H.267, H.443, H.446, H.473- H.475
SHIBA, Tetsuo	H.409
SHIBATA, S.	H.389
SHORTER, John	G.75
SIDDIQI, Obaid	F.64
SIDDIQUI, Salimuzzaman	H.378

Index of correspondents

SIH, Charles J.	F.5, F.7, F.9, H.103, H.298, H.447, H.460, H.483-H.493, H.520
SIM Tiow Suan	H.425, H.427, H.428
SIMMONDS, Alan	F.82
SINCLAIR, Hugh Macdonald	D.61
SJÖBERG, Berndt	H.433, H.435, H.438
SMITH, A.T.H. ROBB-	See H.321
SMITH, Emil L.	G.2
SMITH, Ernest Lester	G.68
SMITH, John Maynard	G.71
SMITH KLINE & FRENCH LABORATORIES	C.884, C.944, C.945, H.452, H.461
SNELL, Eric S.	D.60
SNYDER, Eugene E.	B.40, H.439, H.440, H.449, H.462, H.463, H.517-H.519, H.522, H.529
SOCIETÀ ITALIANA DI CHEMIOTERAPIA	F.26, F.27, F.30, F.31
SOCIETY FOR GENERAL MICROBIOLOGY	G.79-G.81
SOCIETY FOR INDUSTRIAL MICROBIOLOGY	E.23, E.24
SOCIETY OF CHEMICAL INDUSTRY	E.62
SODA, Kenji	H.401
SONDHEIMER, E.	See H.448, H.449
SOUTHWOOD, Sir (Thomas) Richard (Edmund)	G.1, G.73
SPARROW, John Hanbury Angus	D.59
SPENCER, Brian	F.33
SPRINGER-VERLAG	D.216, H.476, H.512
SPOONER, D.F.	H.506
SQUIBB INSTITUTE FOR MEDICAL RESEARCH	C.633, C.884, C.886, C.946- C.962, F.9 See also C.1047, H.500

Index of correspondents

STAUFFER, J.F.	H.448, H.453
STEIN, William H.	H.440, H.446
STEINMAN, Harry G.	H.452-H.454, H.508
STEMBERGER, Heinrich	H.514, H.515
STEVENS, Carl M.	H.249-H.253
STEVENS, LANGNER, PARRY & ROLLINSON, Chartered Patent Agents	H.511
STEWART, Frederick Campion	H.448
STEWART, Gordon Thallon	C.293, C.294, C.1065, D.63, D.128, E.47, H.455-H.459, H.506-H.508, H.513, H.534 See also H.504, H.505
STODOLA, Frank H.	H.448
STRAHS, Gerald	H.453
STROMINGER, Jack L.	H.456, H.465
STURGESS, Elizabeth	H.517
SUHADOLNIK, R.J.	H.448, H.449
SUMIKI, Yusuke	H.382
SUTHERLAND, I.W.	H.62, H.126
SUTHERLAND, Dame Lucy Stuart	D.63
SWISS SOCIETY OF MICROBIOLOGY	F.38, F.39
SYMINGTON, T.	H.310
SYNGE, Richard Laurence Millington	H.497, H.498 See also H.500
TAKANO, Tadayoshi	H.388, H.389, H.393, H.394, H.403, H.404, H.409, H.412, H.413
TAKEDA, Katsuo	H.415
TANENBAUM, Stuart W.	H.448
TANSEY, E.M. ('Tilli')	G.90

Index of correspondents

TAYLOR, Marilyn	H.532
THOMAS, Robert	G.22, H.516, H.525
THOMPSON, Penelope, Lady	H.516
THORNILEY, Maureen Susan	H.254, H.255
<i>THE TIMES LITERARY SUPPLEMENT</i>	D.128, D.129, D.224
TISHLER, Max	D.62
TODD, Alexander Robertus, Baron	See H.502
TODRICK, A.	H.529
TOSONI, A.L.	H.350
TOYO RAYON COMPANY	C.1042
TREND, Burke St John, Baron	D.161
<i>TRENDS IN BIOCHEMICAL SCIENCES</i>	H.515
<i>TRIBUNA MEDICA</i>	H.430
TROWN, Patrick W.	H.454, H.493
TSUDA, Kyosuke	H.384, H.388
TULLY, Michael	H.7
TURNER, John M.	H.21
TWYFORD LABORATORIES LTD	H.508
UEDA, Yasushi	H.413
UMEZAWA, Hamao	G.64, H.216, H.256-H.266, H.268, H.383, H.384, H.388- H.393, H.395, H.396, H.400- H.402, H.404, H.410, H.418 See also H.155
UMEZAWA, Kazuo	A.34, H.267, H.268, H.419
UNGAR, J.	H.368
UNIVERSITY OF TOKYO PRESS	C.960
THE UPJOHN COMPANY	C.963, H.452, H.454
USHER, John James	H.269-H.281

Index of correspondents

VANARENDONK, A.M.	H.452, H.477 See also H.510
VANDAMME, Erick Jerome Maurice Cornelius	H.142, H.282-H.286, H.348
VANDERHAEGHE, H.	H.287, H.288, H.347, H.508, H.513, H.514, H.516, H.517, H.534
VANEK, Zdenko	H.356-H.360
VAUGHAN, Dame Janet Maria	G.64, H.509
VEALE, Douglas	D.73
VELLA, Luciano	H.369
VERMA, R.D.	H.378
VLIETINCK, A.J.	H.289
VÖRÖS, László	H.506
WAKAZAWA, T.	H.404
WALDMANN, Herman	A.38, A.39
WALEY, Stephen Gerald	H.290-H.297
WALKER, Sir John Ernest	H.298-H.301
WALLMARK, Gösta	H.509
WALSHE, J.M.	H.185
WARREN, S.C.	H.302, H.385
WATANABE, Tetsuo	H.382
WATERWORTH, Pamela M.	H.518
WATSON, K.C.	H.506, H.509
WEISS, David W.	H.337, H.338, H.449
WELCH, Arnold D.	C.401
WELLCOME FOUNDATION LTD	H.505, H.506
WELLCOME RESEARCH LABORATORIES	H.499

Index of correspondents

WELLCOME TRUST	G.82-G.90, H.323, H.335, H.383-H.385 H.538 See also H.500
WHALLEY, W. Basil	F.24
WHELAN, W.J.	H.374
WHITE, E.P.	H.337
WHITE, Peter J.	H.65
WHITE, Robert Lester	H.303-H.305
WHITEMAN, Patricia Angela (née Fawcett)	See FAWCETT
WHITTENBURG, John V.	H.471, H.503
WIELAND, O.	H.43
WIGGINS, L.F.	H.371
WILD, D.G.	H.90
WILKINSON, Sir Geoffrey	A.97, C.1067 See also H.516
WILLIAMS, J. David	G.33, G.34
WILLIAMS, Trevor Illyd	D.91, D.134, H.231, H.438 See also H.190, H.500
WILSON, Sir Graham Selby	D.51, G.63
WINSHELL, Elaine	H.460
WINTERSTEINER, O.	H.452
WOODRUFF, H. Boyd	E.24
WOODWARD, Robert Burns	H.447, H.455, H.465, H.511
WORK, Elizabeth	H.508 See also H.500
WORLD HEALTH ORGANIZATION	H.20, H.45-H.47, H.495
WRETLAND, Bengt	H.438
WRIGHT, R. Douglas	D.45, D.55
WRIGHT, Eric	H.306

Index of correspondents

WRIGHT, S.E.	H.336-H.338, H.340
WRIGHT, Winifred G.	H.509
WRINCH, Dorothy	H.450 See also H.504
WRISTON, John C., Jr	H.448
WU, Henry C.	H.217
WYLIE, John Anthony Hamilton	H.306-H.334
YAGISAWA, Morimasa	H.419, H.420
YAGISAWA, Yukimasa	H.382, H.390-H.392, H.396, H.402, H.411, H.459
YAMABE, Shigeru	H.409, H.412, H.415-H.417, H.421
YAMANAKA, Kunio	H.382
YANKWICH, Peter E.	H.439, H.442
YONEDA, Masahiko	H.409
YONEHARA, Hiroshi	H.385
YOSHIDA, Akira	H.415
YOSHIDA, Tadashi	H.413, H.418
YOUNG, Douglas W.	C.758, H.87, H.486, H.487, H.490, H.520
ZÄHNER, Hans	H.214, H.218, H.364
ZERVAS, L.	See H.185
ZIMAN, John Michael	G.48, G.49, G.52