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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

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**SECTION E**

**LECTURES AND BROADCASTS**

**E.1-E.63**

E.1-E.52      LECTURES

E.53-E.63      BROADCASTS

**Lectures and broadcasts**

<b>E.1-E.52</b>	<b>LECTURES</b>	<b>1942-1993, n.d.</b>
	E.1-E.22	Lectures associated with teaching
	E.23-E.52	Public lectures
	For further papers relating to lectures see Section F.	
<b>E.1-E.22</b>	<b>Lectures associated with teaching</b>	<b>1942-1973, n.d.</b>
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.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.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 "Cephalosporoic 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            'Phenoxymethylpenicillin 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 VIIIth 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 <i>re</i> antibiotics exhibit for Royal Society Tercentenary exhibition, 1960.<br><br>2 folders. |                  |
| G.70-G.73        | Correspondence and papers <i>re</i> elections, 1959-1995.   |                  |
| G.70             | 1959-1968.  |                  |
| G.71             | 1971-1979.  |                  |
| G.72             | 1985-1989.  |                  |
| G.73             | 1990-1995.  |                  |
| <b>G.74-G.78</b> | <b>ROYAL SOCIETY OF CHEMISTRY</b>   | <b>1985-1995</b> |
| 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.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.116-H.118      Harris, H.      1962-1992
- Harris was head of the Sir William Dunn School of Pathology, 1963-1994 and Regius Professor of Medicine, University of Oxford, 1979-1992.
- H.116      1962-1963.
- Includes correspondence *re* Harris's move to Oxford in 1963.
- H.117      1972-1992.
- Includes typescripts 'Thoughts on the Regius Professorship of Medicine' and 'Why scientists do animal experiments'.
- H.118      Curriculum vitae and bibliography.
- H.119-H.121      Heatley, N.G.      1948, 1962, 1983-1991
- Heatley was a member of the team of scientists under H.W. Florey who produced in Oxford and tested and investigated penicillin. He also contributed to some of the early work on *cephalosporium* cultures.
- See J.48 for a videotape of lectures, including one by Heatley, to celebrate the 50th anniversary of the paper describing the therapeutic properties of penicillin.
- H.119      'The antibiotic from tulip'.
- Typescript and manuscript draft with manuscript comments by Abraham, 1948.
- H.120      1962, 1983-1991.
- Includes papers *re* the history of penicillin.
- H.121      Copy of *Yours* magazine, January 1991.
- Features Heatley on the cover 'Honoured at 80 The bedpan boffin whose work saved thousands in the war'.









### 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.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

- H.202, H.203      Correspondence and papers *re* career and appointments, 1978-1994.  
Includes references and recommendations.  
2 folders.
- H.204-H.210      Correspondence and papers *re* research, publications, visits etc., 1978-1996.  
7 folders.
- H.211      Duplicated research notes, 1975-1978.  
Pre-date Pang's arrival at Oxford but found with papers relating to his work.
- H.212      Park, J.T.      1970  
Park was based at the Department of Microbiology, University of Umea, Sweden.  
Correspondence *re* visit to Oxford, 1970.
- H.213-H.226      Perry, D.      1974-1989  
Perry came from the University of Birmingham to work in a postdoctoral position in Abraham's laboratory, 1974-1978, on the mechanism of action of the dipeptide antibiotic bacilylsin. After a period at Princeton he returned to Abraham's laboratory in 1983 to work on isopenicillin N synthetase before moving to a lectureship at the Polytechnic of Central London.  
See C.1071-C.1074 for related material.
- H.213-H.215      Correspondence and papers *re* career and appointments, 1974-1986.  
Includes references and recommendations.  
3 folders.
- H.216-H.221      Correspondence and papers *re* research and publications, 1974-1989.  
6 folders.



**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.256-H.266 Umezawa, H. 1972-1986

Umezawa was Director of the Institute of Microbial Chemistry, Microbial Chemistry Research Foundation, Tokyo, Japan. He was the leading chemical microbiologist in Japan, distinguished for his discovery and study of compounds with biological activity produced by microorganisms, particularly by actinomycetes. He visited Oxford on a number of occasions, receiving an honorary degree from the University in 1981. He died in 1986.

See also H.419.

H.256-H.261 Correspondence *re* visits to Oxford, honorary degree etc, 1972-1986.  
6 folders.

H.262-H.266 Obituary and miscellaneous biographical information.  
5 folders.

H.267, H.268 Umezawa, K. 1972-1986

Kazuo Umezawa was the son of H. Umezawa. In 1973 he came to Oxford to read medicine after obtaining a Ph.D. in Chemistry at the Massachusetts Institute of Technology (supervisor J.C. Sheehan).

Correspondence and papers *re* move to Oxford in 1973 and subsequent visits.

Includes references and recommendations.

H.267 1972-1973.

H.268 1976-1977, 1982-1983, 1986.

H.269-H.281 Usher, J.J. 1970-1991

Usher undertook D.Phil research under Abraham's supervision, 1970-1974, working on the role of certain peptides and antibiotics in the synthesis of penicillins and cephalosporins.

H.269-H.276 Correspondence and papers *re* career, appointments and publications, 1970-1991.  
8 folders.

### Correspondence

- H.277-H.281      Research notes and drafts.  
5 folders.
- H.282-H.286      Vandamme, E.J.M.C.      1973-1994  
Vandamme came from the University of Ghent, Belgium to work in Abraham's laboratory during the summer of 1973 on the mode of a peptide antibiotic bacilysin which inhibits bacterial cell wall synthesis. Abraham was a member of the board of examiners for Vandamme's D.Sc. thesis in 1976.
- H.282-H.285      Correspondence *re* arrangements for stay in Oxford, research, publications, D.Sc. thesis, etc., 1973-1977.  
4 folders.
- H.286      Correspondence *re* career and appointments, 1985-1994.
- H.287, H.288      Vanderhaeghe, H.      1973-1987  
Vanderhaeghe was based at the Rega Instituut, Katholieke Universiteit Leuven, Belgium and researched in the penicillin field. Abraham gave a lecture on 'B-Lactam Antibiotics: Science and Serendipity' on the occasion of Vanderhaeghe's retirement in 1987.
- H.287      Correspondence *re* research, visits, etc., 1973-1984.
- H.288      Correspondence *re* Abraham's visit on the occasion of Vanderhaeghe's retirement and draft of his lecture, 1987.
- H.289      Vlietinck, A.J.      1977  
Vlietinck was based at the Pharmacy Department, Antwerp University.  
Correspondence *re* proposed research project on Levamisole, 'a new drug with immunoregulatory properties'.



### 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**

- |                     |  |                             |
|---------------------|--|-----------------------------|
| <b>H.356-H.360</b>  | <b>Czechoslovakia</b>  | <b>1960-1974, 1986</b>      |
| H.356-H.358         | Correspondence and papers <i>re</i> Antibiotics Congress held in Prague, June 1964, 1960, 1963-1965.<br><br>1960 research correspondence was found with the Congress papers.<br><br>3 folders. |                             |
| H.359, H.360        | Miscellaneous correspondence with Czechoslovak scientists, 1961-1974, 1986.<br><br>2 folders.  |                             |
| <b>H.361-H.363</b>  | <b>Denmark</b>   | <b>1971-1972, 1982-1991</b> |
| 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.<br><br>2 folders.                         |                             |
| H.363               | Miscellaneous correspondence with Danish scientists, 1982-1991.  |                             |
| <b>H.364, H.365</b> | <b>Germany</b>   | <b>1970-1994</b>            |
|                     | Miscellaneous correspondence with German scientists.   |                             |
| H.364               | 1970-1979.   |                             |
| H.365               | 1985-1994.   |                             |
| <b>H.366-H.377</b>  | <b>Italy</b>   | <b>1961-1991</b>            |
| 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.<br><br>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.

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- 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.



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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<br>Correspondence with colleagues at Harvard <i>re</i> visits, conferences, lectures, publications etc. |



### 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.



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- |       |  |
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| H.504 | 1961.  |
| H.505 | 1962.  |
| H.506 | 1963.<br>Includes experimental results.  |
| H.507 | 1964 January-June.   |
| H.508 | 1964 July-December.  |
| H.509 | 1965 January-May.<br>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.<br><br>Includes review of book on protoplasts and article on 'Some British Contributions to Antibiotics and Progress in Chemotherapy', both by Abraham. |
| H.520 | 1975.<br><br>Includes short article on the cephalosporins by Abraham for the <i>Oxford Medical School Gazette</i> .   |
| 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.	
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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.	
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**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**

<b>J.1-J.31</b>	<b>PHOTOGRAPHS</b>	<b>1930-1995, n.d.</b>
	J.1-J.15	Abraham and family
	J.17-J.31	Visits, events and colleagues
<b>J.1-J.15</b>	<b>Abraham and family</b>	<b>1930-ca 1990, n.d.</b>
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. Deshmukb, 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**

- J.35-J.38                      Lecture Slides    1978**
- J.35                                      1 box labelled 'Prof. Abraham' containing 18 slides. Some slides are dated 1978.
- J.36                                      1 box labelled 'Sulphanilamide other antibiotics-bioconversion' containing 11 slides.
- J.37                                      1 box of 14 slides labelled 'Pseudomonas B-lactam' and 'Mary Pseudomonas Enzyme'.
- J.38                                      1 box labelled 'Set 1 Baldwin' and 'B-lactamases' containing 16 slides.
- 
- J.39-J.43                      VIDEOTAPES    1989, 1990**
- J.39                                      Honorary Doctor of Science Degree ceremony at Strathclyde University, 13 July 1989. Abraham was one of the graduands. See also official photographs of the ceremony at J.26, J.27.
- J.40                                      Series of lectures organised to celebrate the 50th anniversary of the publication of a paper on the production and therapeutic application of penicillin. The venue was the Sir William Dunn School of Pathology and speakers included Henry Harris, Norman Heatley and Abraham. The main topic was the creation of the Dunn School, research and production of penicillin.
- See F.82, F.83 for further material relating to this event.
- J.41                                      'Conversation with Eminent Biochemists, E.P. Abraham in conversation with R. Thomas, Imperial College London, 1 May 1990. The title of the video is 'Penicillin and after, the Rise of the Antibiotic Era'. Video recorded for the UK Biochemical Society archives.

/...

**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'.

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