

THE ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Report on the correspondence and papers

of

SIR ERNST BORIS CHAIN

(1906 - 1979)

biochemist

Vol III

deposited in the

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Wellcome Institute for the History of Medicine,
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Catalogue of the papers and correspondence of

SIR ERNST BORIS CHAIN FRS

(1906 - 1979)

Compiled by:

Jeannine Alton and Julia Latham-Jackson

VOLUME III

Section K

List of Publications

Index of Correspondents, Organisations and Firms

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SECTION K

GENERAL CORRESPONDENCE K.1 - K.341

The material is presented in 3 sequences as follows:

- K.1 -K.291 Correspondence with individuals, in alphabetical order. The correspondence is dated and indexed, and an indication is given of any information of particular biographical, scientific or historical interest.
- K.292-K.311 Shorter unindexed correspondence: brief exchanges of information, reprint requests, etc.
- K.312-K.341 Examining, references and appointments.

K.1-K.291

CORRESPONDENCE WITH INDIVIDUALS

- K.1 Alexander, P. 1969, 1971, 1973
1969 correspondence includes 9 pp. typescript on 'Anti-Leukaemic Action of L-Asparaginase' and copy of letter to Beecham Research Laboratories outlining proposals for collaborative research.
- K.2 Alper, T. 1970
Enclosing draft of paper on 'Inactivation of the Scrapie Agent by Near-Monochromatic Ultraviolet Light'.
- Altman, M. 1971
- K.3 Ammon, R. 1953-59
Ammon was one of Chain's oldest friends and colleagues; they had worked together in P. Rona's laboratory 1930-33 and written collaborative papers.
Early correspondence does not survive and the remaining letters are chiefly re lectures and papers to be given by Chain.
See also G.14, G.15, G.21.
- K.4 Anfinsen, C. B. 1955-77
Mainly personal correspondence.

General correspondence

- K.5 Aschberg, O. and Aschberg, F. 1946-52
 Olof Aschberg was a banker who negotiated consultancies for Chain with various firms and government departments wishing to become involved in penicillin production.
 Folder includes correspondence re negotiations in Sweden, Denmark, Poland and India, miscellaneous re taxation (particularly in relation to Chain's contract with Astra) and some personal letters from Olof's son Folke.
- K.6 Aykroyd, W. R. 1975
 Bach, S. J. 1953
 Backus, M. P. 1952
 re Penicillium chrysogenum.
- Bacq, D. E. n.d., 1950
 Bailey, K. 1953
 re hexokinase.
- K.7 Baker, J. R. 1970, 1978
 1970 correspondence is re The Society for Freedom in Science.
- Balliri, S. 1954
 Balogh, T. 1950
 Bamonte, N. 1968
- K.8 Barber, M. 1960-64
 Includes correspondence re the problem of resistance to penicillin and copies of correspondence with Beecham Research Laboratories re collaborative research on the new penicillins.
 See also F.95.

General correspondence

- | | | |
|------|--|---|
| K.9 | Barnett, V. J.
Mainly personal correspondence. | 1973, 1977-78 |
| K.10 | Baudet, P.
Beloff, N. | 1970
1963-64, n.d. |
| K.11 | Ben-Ami, O.
<u>re</u> personal and Jewish affairs.
Benatt, A. J. | 1967-70, 1975
1950-55 |
| K.12 | Berenblum, I.
A rather fragmentary sequence of letters on personal and scientific topics.
Correspondence 1949-55 consists of Berenblum's letters only and includes references to Chain's tentative plans for moving to the Weizmann Institute after his first year in Rome.
Correspondence 1958-62 is Chain's carbons only, with one exception. | 1949-62, 1977 |
| K.13 | Bergmann, E. D.
Bergmann, F.
Includes arrangements for visit to Chain's laboratory in Rome.
Berlin, I.
Personal letter <u>re</u> death of his mother.
Bernhard, S.
<u>re</u> Dahlem Konferenzen. | 1953-57
1953, 1955, n.d.
1974
1977 |
| K.14 | Bevan, A.
<u>re</u> British scientific policy, particularly in relation to pharmaceutical research. Includes 4 pp. typescript 'Aide-mémoire concerning the state of scientific research in the Pharmaceutical Industry in Great Britain and the desirability of creating a National Centre for Biochemical and Pharmaceutical Research'.
See also B.47, K.286. | 1949-50, 1954 |

General correspondence

- | | | |
|------|--|--|
| K.15 | Beznák, A. B. L. | 1948 |
| | Bhatnagar, S. S. | 1954 |
| | Includes drafts of letter from an Italian firm offering to supply fermentation equipment to Bhatnagar's laboratory. | |
| | Binker, E. F. | 1974 |
| | <u>re</u> relative costs of soy and other protein products. | |
| | Blackett, P. M. S. | 1964, 1965 |
| | Błaszczak, J. | 1953 |
| K.16 | Blaxter, K. L. | 1967-71 |
| | Includes correspondence <u>re</u> agreement with Nestlé for collaborative work on microbial proteins conducted at the Rowett Research Institute. | |
| K.17 | Blond, E. | 1970 |
| | Bonino, G. B. | 1958 |
| | Bonventre, P. | 1958 |
| | Mainly <u>re</u> plans for research on diphtheria toxin. | |
| | Born, G. V. R. | 1967, 1970-72 |
| | Includes some personal correspondence. | |
| | Bovet, D. | 1954 (Chain's carbon only), 1957, 1970, 1975, n.d. |
| | Includes letter from F. Bovet (wife). | |
| K.18 | Brachet, J. | 1952-53 |
| | <u>re</u> Italian research students working in Brachet's laboratory. Includes letters from G. Pinto and F. Gavosto. | |
| K.19 | Bragg, W. L. | 1965 |
| | Brander, G. C. | 1966 |
| | <u>re</u> veterinary use of antibiotics. | |

Continued

General correspondence

- K.19 (cont'd.) Britton, R. H. W. 1949-50
Includes comments on the research policy of Aspro Limited.
- Bronowski, J. 1953, 1955
- K.20, K.21 Burkitt, D. P. 1971-73
re research on the importance of fibre in diet.
Includes correspondence from the British Nutrition Foundation and Beecham Research Laboratories, re drafts of papers by Burkitt, arrangements for discussion meetings and research projects, etc.
See also J.118.
- K.20 September-December 1971.
- K.21 1972-73
Includes drafts of letter from Burkitt and others to the Flour Advisory Bureau.
Also included here is 2 pp. typescript, referring to Burkitt's work, for speech at unidentified congress, n.d., c.1975.
- K.22-K.25 Burton, H. S. 1955-71
re cephalosporin. Burton collaborated with Abraham and others in early work on the cephalosporins at the Sir William Dunn School of Pathology, Oxford, but later became involved in a dispute over patent rights. K.25 contains several duplicated typescript 'Press Releases' by Burton setting out his side of the dispute.
- K.22 1955, 1958-59
- K.23 1961-62, 1969
- K.24 1970-71
- K.25 Duplicated typescript 'Press Releases' (numbered 1-8) and other statements re the early work on cephalosporin, various dates, c.1962-66.

General correspondence

- K.26 Burn, J. H. 1949, 1953
- Bustinza, F. 1949-62
- Mainly re exchanges of reprints, and information.
 Includes brief comments on Bustinza's book 'Ten
 years of friendship with Sir Alexander Fleming' and
 some personal correspondence.
- K.27 Butlin, K. R. 1951, 1954
- Butterfield, W. J. H. 1969, 1973-78
- 1969 correspondence is re HL523 (γ -guanidino-
 butyramide).
- K.28 Calder, N. 1972
- re proposal to build giant human model for educa-
 tional purposes.
- Calder, R. 1953, 1959
- Includes requests to Chain to contribute to the News
 Chronicle and other publications.
- K.29 Callow, D. 1948, 1950, 1954
- Callow was Chain's technician for many years in both
 Oxford and Rome. Letter to Chain, August 1950,
 describes fermentation work in progress during Chain's
 absence from the laboratory. 1954 correspondence
 follows Callow's return to England and includes copy
 of letter from Chain with news of the laboratory inclu-
 ding research in progress.
- K.30 Canonica, L. 1969
- re supply of ophiobolin A and B. Includes comments
 on student disturbances in continental universities.
- Cantarelli, C. 1950,
- Capraro, V. 1954
- (Chain's carbon only)
- Carleton, J. 1965

Continued

General correspondence

- K.30 (cont'd.) Chance, B. n.d.
re work on insulin.
- Chandrasekhar, S. 1959
(Chain's carbon only)
- K.31 Chargaff, E. 1949-50
- Cherwell, Viscount 1954
(Chain's carbon only) re facilities for technical training in England.
- Cheymol, J. 1959
(Chain's carbon only)
- Chibnall, A. C. 1960, 1971
1971 letter contains reminiscences of H. Raistrick.
- K.32 Christopherson, D. G. 1969
Correspondence arising from enquiry into the use of time by academic staff conducted by the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom.
- Ciccarone, A. 1961-63
re work on Fusicoccum amygdali. Includes correspondence from A. Graniti.
- K.33 Cleave, T. L. 1971-72
re metabolic effects of lack of fibre in diet and excessive sugar consumption, particularly in relation to coronary thrombosis and diabetes.
- K.34 Clore, C. 1964, 1971, 1975
1964 correspondence is re proposal to create an Israel Sieff Foundation.
- Cohen, H. see K.39.

General correspondence

- K.35-K.38 Cohen, M. M. 1961-75
Correspondence re collaborative research, publications, grant applications, etc.
See also C.69.
- K.35 April-December 1961
re publication of collaborative work on glutamate metabolism, and exchange of visits between Rome and Minnesota. Includes copy of letter from Cohen to the National Institute of Neurological Diseases and Blindness submitting a grant application for collaborative research on the relationship between carbohydrate and amino acid metabolism in the central nervous system.
- K.36 January-December 1962
Continuing correspondence re research, publications, visits, etc. Includes letter from Chain with additional information in support of the joint grant application.
- K.37 January-April 1963
Mainly re arrangements for visits. Includes some personal correspondence.
- K.38 November 1964-April 1975
Mainly arrangements for meetings and visits and some personal correspondence.
- K.39 Cohen, H. 1959, 1965, 1973
Cohn, J. 1958-72
Includes correspondence re fund-raising and other activities in support of the Weizmann Institute of Science.
- K.40 Cohn, W. 1970
re death of his father (H. Cohn).
Colebrook, L. 1945
re methods of air filtration.
Coleraine, R. K. L. 1965

Continued

General correspondence

- K.40 (cont'd.) Collier, H. O. J. 1954
re induced resistance to penicillin.
- Colman, E. A. 1975-76
- K.41 Conant, J. B. 1949
re Conant's election as a Foreign Member of the
Accademia Nazionale dei XL.
- Consolazio, W. V. 1960
12 pp. typescript headed 'Privileged communication.
Subject: A Summary of Some Observations on
European Biology'.
- Cook, R. 1949
- Coppini, M. A. 1961
- K.42 Cottrell, A. H. 1971-72
re various aspects of scientific policy in Britain
including the position of the Research Councils and
the decision to join the European Molecular Biology
Organisation [EMBO] project. Includes copy of
typescript by Cottrell on 'The formulation of national
scientific policy'.
- K.43 Cox, H. T. 1971
re fibrinolytic substance extracted from a marine
worm. Includes letter from L. Poller.
- Cremer, J. E. 1963
re arrangements for collaborative work on brain meta-
bolism. Includes some correspondence with J.M. Barnes.
- Cutolo, C. 1950
- Cutting, W. 1963
re formulae for helevolic acid, cephalosporin P₁
and fucidic acid.
- K.44 Dahmen, K. 1969, 1972
- Dahmen, R. 1969
- Dainton, F. S. 1971

Continued

General correspondence

- K.44 (cont'd.) Danckwerts, P. V. 1962
(Chain's carbon only) re chemical engineering research.
- D'Arcy Hart, P. 1972
re activity of the semi-synthetic penicillinase-resistant penicillins against the tubercle bacillus.
- K.45 Datta, N. 1970
re transfer of R factors from S. typhimurium to S. typhi, and ethics of accepting consultancies.
- Davenport, H. W. 1976
- Davies, R. E. 1958
re effects of metabolism on phosphate uptake in muscle.
- Daymond, J. 1958
Personal correspondence.
- K.46 Debré, R. 1965, 1969
- De Caro, L. 1954
re work on glucose metabolism.
- Delaunay, A. 1978
- Delcambe, L. 1969
re nomenclature of antibiotics.
- K.47 Dentice di Accadia, F. 1965-67
Includes news of the Istituto Superiore di Sanità and the progress of the Marotta trial (q.v.).
1966-67 correspondence is mainly re drafts for an article on antibiotics for the Italian International Chemical Encyclopaedia.
- K.48 Dietrich, K. R. 1957
- Dion, W. 1954, 1955
- Dirscherl, D. 1957-62

General correspondence

- | | | |
|-----------|--------------|---------|
| K.49-K.64 | Dodds, E. C. | 1956-74 |
|-----------|--------------|---------|
- The following correspondence reflects Chain's close friendship with Sir Charles Dodds and their numerous common interests in spite of considerable differences in background and temperament. The subjects covered range widely over both personal and scientific matters and the whole sequence of letters provides valuable additional documentation for many of Chain's activities. In particular there are several references to the negotiations leading to Chain's appointment to the Chair of Biochemistry at Imperial College and to his subsequent grant applications to the University Grants Committee and others. There are also several exchanges arising from their common consultancy arrangements with various industrial firms, especially the Beecham Group with which Dodds was involved from the early 1940s through his friendship with H.G. Lazell.
- | | | |
|------|-------------------------------------|---|
| K.49 | 1956-57 | Incoming letters only. Includes copy of a letter from Dodds to I. Berenblum <u>re</u> invitation to visit Israel. |
| K.50 | January-June 1958 | Mainly <u>re</u> arrangements for award of honorary degree to Dodds by the University of Bologna. Includes correspondence with the Rector and others <u>re</u> arrangements for the ceremony (on 20 May). |
| K.51 | November-December 1958 | |
| K.52 | February-June, September 1959 | Includes arrangements for visit to Rome by B.W. Windeyer. Correspondence for September is Chain's carbon only. |
| K.53 | June-December 1961 | |
| K.54 | January-June, December 1962 | Includes Chain's ms. draft letter of congratulation to Dodds on his election as President of the Royal College of Physicians. Correspondence for December is Chain's carbon only. |
| K.55 | January-December 1963, January 1964 | One letter only for 1964. |

General correspondence

- K.56 January-December 1965
Mainly incoming correspondence only. Includes copy of letter from R. J.L. Allen to Dodds re carbohydrate research.
- K.57 January-December 1966
Includes several letters and 9 pp. typescript report on Lucidril (Helfergin).
- K.58 Copy of report on 'Redoxon trials' (to test the effect of vitamin C on the incidence and duration of the common cold), sent to Dodds with a copy to Chain by R.J.L. Allen, July 1966.
- K.59 January-December 1967
Includes several letters re the progress of Chain's grant application to the University Grants Committee (see also D.95ff.).
- K.60 January-November 1968
Chain's letter of 26 July contains a detailed account of work at the Istituto Superiore di Sanità and the Beecham Research Laboratories leading to the discovery of 6-APA and the synthesis of the semi-synthetic penicillins.
- K.61 February-October 1969
- K.62 January-November 1970
- K.63 March-December 1971
- K.64 February-October 1973, April 1974
1974 correspondence is with F. Dickens, author of the Royal Society Biographical Memoir of Dodds.
- K.65 Doll, W. R. S. 1977
re history of the concept of co-carcinogenesis.
- Donato, G. c.1973
Chain's ms. draft only, re plans for a European research centre for physiological biochemistry.
See also K.185, F.195, F.266.

General correspondence

- | | | |
|------------|--|-----------------|
| K.66 | Dornhorst, A. C. | 1974 |
| | Dripps, R. D. | 1972 |
| | Includes letter from E. Zaimis and draft typescript on 'Anti-Infectives'. | |
| K.67 | Drucker, D. B. | 1978 |
| | <u>re</u> undergraduate and postgraduate courses in industrial microbiology. | |
| | Druker, M. | 1968 |
| | Reminiscences of the St. Hugh's Military Hospital for Head Injuries, Oxford, during the Second World War. Includes photograph of a group of Medical Officers from St. Hugh's including Sir Hugh Cairns. | |
| | Dubos, R. | 1962 |
| | Dumbell, S. | 1964 |
| K.68 | Duthie, E. S. | 1949-53, 1959 |
| | News of research and personal affairs, arrangements for visits to Rome. 1959 correspondence includes announcement of Duthie's sudden death, arrangements for memorial service, etc. | |
| K.69 | Edholm, O. G. | 1969 |
| | <u>re</u> appeal to the Syrian government for the release of Professor Shlomo Samueloff. Includes letter from Samueloff, February 1970. | |
| K.70, K.71 | Edwards, R. S. | Sept.-Nov. 1970 |
| K.70 | Correspondence <u>re</u> formulation of a memorandum on the administration of Government-supported scientific research, for submission to the Prime Minister. Edwards was to have signed the memorandum along with Chain and F.E. Jones, but later decided against it. | |
| K.71 | Several ms. and typescript drafts of the memorandum. See also K.120. | |

General correspondence

- K.72 re Ehrlich, P. 1955
 Letter from M. Landau (Ehrlich's daughter).
- Eidus, L. 1975
- Elefant, M. 1961-63, 1966
 Includes letters re project for translation and publica-
 tion of Maimonides Medical Manuscripts.
- K.73 Ennor, A. H. 1962
- Evans, D. G. 1971
 Enclosing article on Edward Jenner.
- K.74 Falini, R. 1964-65, 1972,
 1974 correspondence is Chain's carbon only. 1974
- Feilden, G. B. R. 1969
- Feld, B. T. 1975
 re Pugwash Conferences.
- Feldman, 1979
 Chain's carbon only, re biography of J.B.S. Haldane.
- K.75 Feldman, W. H. 1946-68
 Personal and scientific correspondence. Includes
 arrangements for visits to Rome by various friends
 and colleagues.
- Fischgold, R. see K.78
- K.76, K.77 Fishbein, M. 1961-75
- K.76 1961-64
 Includes correspondence re invitation to Sir Isaac
 Wolfson to visit Chicago to receive a citation from
 the City of Hope Institute for Advanced Learning.
- K.77 1968, 1970, 1974-75
 1974 correspondence is re editorial policies of World
 Medicine particularly in regard to the food industry.

General correspondence

- K.78 Fischgold, R. 1945
(brother of H. Fischgold) re arrangements for a visit to Oxford.
- Fisher, R. B. 1957
re mode of action of insulin.
- Fleming, A. 1953
1 letter only - thanks for hospitality in Rome.
- K.79-K.82 Fleming, Lady Amalia 1955-71
- K.79 1955-58
Thanks for Chain's letter of condolence on the death of Sir Alexander Fleming, March 1955; personal correspondence re plans for visit to Greece by Chain and his family; correspondence arising from the biography of Fleming by André Maurois. Includes copy of 5 pp. letter to Maurois from Chain containing reminiscences of the early penicillin work and letters from Maurois and R. Dubos who was asked to write the preface for the French edition of the book.
- K.80 1963
re Lady Fleming's plans for building a scientific research institute in her native Greece. Includes arrangements for Chain to visit Athens in order to discuss the project and accounts of negotiations with various government ministers.

There is no correspondence for 1964.
- K.81 1965
Further correspondence about the institute (Hellenic Institute for Fundamental Biological Research). Includes copy of the government decree authorising its establishment, 19 February 1965, and letter confirming Chain's membership of the Scientific Committee of the Institute.
- K.82 1967-71
Copy of letter from Lady Fleming to M. Perutz re possible collaboration between the Hellenic Institute and EMBO; photograph of the Institute, December 1970; correspondence re proposed letter to The Times appealing to the Greek Government to release Lady Fleming from prison, September 1971.

General correspondence

- K.83 Florey, H. W. 1958
re patenting of natural products.
- Ford, H. 1970, 1976-77
1970 letter is re results of recent general election.
Later correspondence is re the office made available to Chain in the Department of Mechanical Engineering at Imperial College and re negotiations by Powdrex Limited in Israel.
- K.84 Foster, P. 1966-67
Personal correspondence arising from Chain's visit to South Africa in 1966.
- Frazer, A. C. 1964-65, 1969
Personal and social correspondence.
- Gabor, D. 1968-69, 1971
Personal and social correspondence.
- K.85 Gans, O. 1954-55
Mainly re arrangements for Gans to visit Rome to discuss suitable candidates for the newly-established Ehrlich Chair of Chemotherapy at the Johann Wolfgang Goethe-Universität, Frankfurt. Includes some personal correspondence.
- Garberini, A. 1957
- Gardner, A. D. 1966
- K.86 Garrod, L. P. 1963, 1970, 1972
1970 correspondence is re ethics of university professors accepting industrial consultancies.
1972 correspondence is re effectiveness of antibiotics in the treatment of typhoid.
- Garzanti, L. 1972
- K.87 Gdumann, E. 1954-55
re fermentation techniques. Includes arrangements for a member of Chain's laboratory (A. Tonolo) to work in Gdumann's laboratory in Zürich.

General correspondence

- K.88 Ghilchick, M. W. 1971
Includes typescripts of 2 papers on insulin responses in patients with vascular disease.
- Giacomello, G. 1965
- K.89 Ginsburg, D. 1972
- Ginsburg, J. 1959-64
- Ginsburg, S. 1938, 1943, 1944, 1970
- K.90 Giri, K. 1954
- Glees, P. 1969-70
Mainly re problem of causality in drug action and the testing of drugs.
- Gluschkov, R. G. 1968
re A. Haddow. Includes communications with the Home Office re Gluschkov's visit to England, 1967.
- K.91, K.92 Goldblith, S. A. 1967-76
Mainly re food technology and the food industry.
- K.91 1967-68
Includes invitation to conference on 'Single Cell Protein' at M.I.T., October 1967.
- K.92 1969-76
Arrangements for meetings and visits and miscellaneous personal correspondence. Letter of 7 October 1971 introduces G.C. Seybolt (President, Wm. Underwood Co. - see F.1 - F.3).
- K.93 Goldman, M. 1965, 1971
- re Goodman, A. A. 1977
- K.94 Goodman, L. R. 1971
re research in the textile and clothing industries. Includes letter from the Research Director of the Shirley Institute (L.A. Wiseman).

General correspondence

- | | | |
|------------|---|------------|
| K.95 | Gorecki, M. | 1974 |
| | Green, R. T. | 1975 |
| | <u>re</u> Open University course on 'Biological Bases of Behaviour'. | |
| | Grisolia, S. | 1973, 1978 |
| | Includes letter <u>re</u> visit by Grisolia to London, October 1976. | |
| K.96 | Gualandi, G. | 1965-67 |
| | <u>re</u> collaborative research and publications, equipment for the Department of Biochemistry, Imperial College, arrangements for meetings and visits. | |
| K.97 | Guidotti, G. | 1965 |
| | (Chain's carbon only) <u>re</u> opening of new Department of Biochemistry at Imperial College. | |
| | Guttman, L. | 1976 |
| K.98-K.100 | Haddow, A. | 1958-74 |
| K.98 | 1958-70 | |
| | Includes correspondence <u>re</u> work on asparaginase and <u>re</u> Haddow's resignation as Director of the Chester Beatty Research Institute. | |
| K.99 | 1971-72 | |
| | Mainly <u>re</u> grant applications by Haddow to the Cancer Research Campaign and other organisations. Includes copies of letters from Chain to Lord Nathan in support of Haddow's application. | |
| K.100 | 1972-74 | |
| | Invitations to meeting of the British Association for Cancer Research, November 1972 and miscellaneous personal correspondence. Includes letter <u>re</u> Remembrance and Thanksgiving Service for Haddow, February 1976. | |

General correspondence

- K.101 Haigh, M. 1970, 1972
 Personal correspondence.
- Hall, E. T. 1957
 re two-dimensional radiochromatography.
- Halsbury, J. A. H. G. 1953-54
 Includes thanks for hospitality during visit to
 Rome, 1953.
- K.102 Hamelin, R. 1976-77
 Mainly re proposals for training Iranian students
 in French scientific and technical institutions.
 Includes some personal correspondence.
- Hammarsten, E. 1951
 (Chain's carbons only) re supply of heavy water and
 chemicals and Hammarsten's proposed visit to Rome.
- Hampson, C. P. 1962
 re possible use of surplus potatoes in fermentation
 processes.
- K.103 Harris, L. J. 1953, 1955
- Hastings, J. J. H. 1955, 1957-58
 Includes correspondence re supply of proportioning
 pumps to Chain's laboratory in Rome.
- Hauduroy, P. 1949, 1954, 1955,
 1962
 1962 correspondence is re granting of licences
 to French firms for production of the new penicillins.
- K.104 Hayward, A. 1976-77
 re draft chapters of book by Hayward on science
 and religion.
- K.105 Hearse, D. J. 1972-78
 Mainly re funding for the Myocardial Metabolism
 Research Laboratories at the Rayne Institute, St.
 Thomas's Hospital.

General correspondence

- K.106 Hechter, O. 1959
re mode of action of insulin.
- K.107 Hedén, C.-G. 1951, 1963-70
1951 correspondence is re experiments with E. Coli
and arrangements for Hedén to work in Rome.
Later correspondence is mainly re the activities of
the International Organisation for Biotechnology
and Bioengineering.
- K.108 Hedges, R. W. 1976
Henderson, D. W. 1954, 1959
Herold, M. 1950-60
Heseltine, N. 1959
re occurrence of ergots in West Africa.
Hevesy, G. de 1949
Includes later correspondence from Pia de Hevesy
(1954, 1976).
- K.109 Heymans, C. 1956-61
Includes correspondence re government sponsorship
of scientific research, and later letters from
colleagues re commemoration of Heymans's 70th
birthday and his death in 1968.
- K.110 Hickman, K. C. D. 1948
Himmelweit, F. and Himmelweit, H. T. 1944-79
Himsworth, H. P. 1967, 1970
Hinckley, J. O. N. 1969
Includes letter from A.J.P. Martin.
- K.111 Hinshelwood, C. N. 1958, 1966
Hirsch, J. 1945
Hobby, G. L. 1978-79

General correspondence

- | | | |
|-------|---|---------------|
| K.112 | Hodgkin, D. C. | 1954-65 |
| | Personal and scientific correspondence. Includes reference to Astra's request for a statement <u>re</u> accessibility of penicillin reports in 1946 (see F.25ff) and a detailed account (17 December 1955) of crystallographic investigations of ferroverdin. | |
| | Holmes, B. E. | n.d. |
| | Personal correspondence. | |
| K.113 | Horrobin, D. F. | 1974-75 |
| | Correspondence arising from an article by Horrobin in the <u>British Medical Journal</u> <u>re</u> grant-giving and refereeing procedure of the M.R.C. | |
| K.114 | Hoskin, F. C. G. | 1958 |
| | <u>re</u> 'chromatographic "maps"'.
Howard, J. M. H. 1970
<u>re</u> cardiac metabolism. | |
| | Hughes, A. | 1969-70, 1977 |
| K.115 | Hughes, D. E. | 1952-53 |
| | <u>re</u> press for the disintegration of microorganisms manufactured at Sheffield University for Chain's laboratory in Rome. Includes technical specifications. | |
| | Hull, G. W. | 1963 |
| | Humphrey, J. H. | 1972 |
| | Mainly <u>re</u> work on ds-RNA. | |
| K.116 | Ing, H. R. | 1962 |
| K.117 | Isaacs, A. | 1961, 1964-66 |
| | <u>re</u> collaborative work on interferon. Includes arrangements for visit to Rome, correspondence <u>re</u> research plans and results and some personal letters. | |

General correspondence

- K.118 Jacobson, F. 1954
- James, W. O. 1961
 (Chain's carbon only) re funding for new mycological
 laboratory at Silwood Park.
- Jenkins, T. P. N. 1976
 re abdominal surgery.
- Jewkes, J. 1968
 re historical background to the development of
 the semi-synthetic penicillins.
- K.119 Johnson, E. I. 1969
 re wording of the Drugs (Prevention of Misuse)
 Act, 1964.
- Jones, B. R. 1979
 re arrangements for discussions with Italian researchers
 on interferon.
- K.120 Jones, F. E. 1970
 re text of memorandum to the Prime Minister on the
 position of the Research Councils.
 See also K.70, K.71.
- K.121 Joseph, D. 1957
 re possibility of establishing an antibiotics industry
 in Israel.
- Kahane, E. 1949
 re the Centre National de la Pénicilline.
- Kaplan, A. 1969
- Kardos, N. 1974
 re prospects for development of antibiotics industry
 in Israel.
- K.122 Katzir, E. 1976
 Correspondence with Katzir and members of his
 staff, mainly re arrangements for seminars on various
 aspects of Jewish life.

General correspondence

- | | | |
|-------|--|------------|
| K.123 | Kendrew, J. C.
<u>re</u> Z. Medvedev. | 1970 |
| | Kenner, G. W.
<u>re</u> use of peptides as drugs. | 1978 |
| | King, B. E.
<u>re</u> textile research associations. | 1971 |
| K.124 | King, E. J.
Correspondence 1953 is <u>re</u> arrangements for visit to Rome.
Chain's draft letter of condolence on King's death is also included in the folder. | 1953-58 |
| K.125 | King, H. | 1949 |
| | Kirkness, J. M.
<u>re</u> antibiotics in China. | 1961 |
| | Kissin, | 1974, 1976 |
| | Klejner, G. I. | 1963, 1966 |
| | Kögl, F.
Mainly <u>re</u> invitation to Kögl to lecture at the VII National Congress of the Italian Chemical Society, with an account by Kögl of research in progress. Some personal correspondence is also included. | 1954, 1957 |
| K.126 | Kohn, R. | 1969 |
| | Kollek, T.
Includes correspondence with E. Bachrach <u>re</u> Chain's interest in purchasing a house in Israel. | 1977-79 |
| | Kornberg, A.
Mainly <u>re</u> plans for a holiday in Ireland. | 1976 |
| | Kováč, A. G. B. | 1957 |

General correspondence

- | | | |
|-------------|--|---------------|
| K.127 | Krasil'nikov, N. A. | 1964 |
| | Krebs, H. A. | 1957-63, 1975 |
| | Includes discussion of experimental results reported by Chain and M. Cohen on brain metabolism, 1962, and some personal correspondence. | |
| | Krebs, R. H. | 1950, 1957 |
| K.128-K.132 | Krim, M. | 1977-78 |
| | Correspondence <u>re</u> funding and organisation of research on interferon at the Memorial Sloan-Kettering Cancer Center, New York. (Chain was a member of the Board of Consultants.) | |
| K.128 | May-August 1977 | |
| | Includes 12 pp. typescript 'History and Description of the International Laboratories for the Molecular Biology of Interferon Systems' and copies of agreement and correspondence <u>re</u> arrangements for collaboration between the Sloan-Kettering Institute and the Theodor Kocher Institute of the University of Berne on 'research in the production, extensive purification and characterization of human leukocyte interferon in preparation for controlled clinical trials'. | |
| K.129 | September-December 1977 | |
| | Includes 12 pp. typescript by Chain on 'The urgent need for the larger scale production of interferon from human leucocytes'. | |
| K.130 | January-June 1978 | |
| K.131 | July-December 1978 | |
| | Includes copy of draft grant application for collaborative work by the Egyptian Organisation for Biological and Vaccine Production and the Sloan-Kettering Institute on the use of interferon in the treatment of human rabies. | |
| K.132 | January-May 1979. | |

General correspondence

- | | | |
|-------------|--|------------|
| K.133 | Krüger-Thiemer, E. | 1963 |
| | Kühnau, J. | 1968 |
| | <u>re</u> proposed reform of medical curriculum. | |
| | Kula, M.-R. | 1976 |
| K.134-K.137 | Kulaev, I. S. | 1975-79 |
| | Mainly <u>re</u> arrangements for English translation and publication of a book by Kulaev on polyphosphates. Includes correspondence with John Wiley & Sons Ltd. | |
| K.134 | 1975-76 | |
| K.135 | 1977 | |
| K.136 | 1978 | |
| | Includes request to Chain to write a foreword to Kulaev's book. | |
| K.137 | 1979 | |
| K.138 | Larsen, H. | 1954 |
| | <u>re</u> fermentation pilot plant techniques. | |
| | Lasker, A. D. | 1977 |
| | (Chain's carbon only). | |
| | Laviolette, P. | 1976 |
| | (Chain's carbon only). | |
| | Leather, E. | 1973 |
| K.139 | Leese, H. J. | 1973, 1974 |
| | Levine, B. B. | 1961 |
| | <u>re</u> 6-APA. | |
| | Levinson, M. L. | 1976-77 |
| | Personal correspondence. | |

General correspondence

- | | | |
|-------|---|---------------|
| K.140 | Lightbown, J. W.
(Chain's carbon only). | 1959 |
| | Lighthill, M. J. | 1965-79 |
| | Linderstrøm-Lang, K. U.
Includes arrangements for visit by Chain to the
Carlsberg Laboratory in Copenhagen, 1950. | 1949-50 |
| K.141 | Lockspeiser, B.
<u>re</u> arrangements to meet, exchanges of technical
information. | 1951-54, n.d. |
| K.142 | Loeser, A. A.
<u>re</u> treatment of gonorrhoea. | 1954 |
| | Longmore, D. B.
<u>re</u> research on use of foetal material for heart tissue
replacement. | 1971 |
| | Luck, W.
<u>re</u> balance of teaching and research in universities. | 1974 |
| | Lutzker, E.
Mainly <u>re</u> W.M. Haffkine. | 1968-74 |
| K.143 | Macheboeuf, G. | 1974 |
| | Mackaness, G. B.
Mainly personal correspondence. | 1976 |
| | McLennan, H.
<u>re</u> work on synthesis of amino-acids from glucose
in the brain. | 1958 |
| K.144 | Mahalanobis, P. C. | 1954, 1955 |
| | Maister, D.
<u>re</u> theory of evolution. | 1977 |

Continued

General correspondence

- K.144 (cont'd.) Malagarne, O. n.d.
Written from Prisoner-of-War camp in Algeria,
asking Chain to send him scientific books.
- Mandelstam, J. 1973-74
- Mann, T. 1957
- K.145 Mantle, P. G. 1960-61, 1963
re collaborative work on ergot alkaloids. Includes
correspondence with W.O. James.
- K.146-K.149 Marotta, D.
Correspondence with and re Marotta.
- K.146 Correspondence with C.N. Hinshelwood and
B. Lockspeiser, 1954-55, re arrangements to have
Marotta invited to visit various laboratories and
institutions in the U.K., including the Royal Society.
- K.147 Correspondence with the Society for Visiting Scientists
and the British Council re arrangements for Marotta's
visit in May 1955. Also included here are letters
from colleagues unable to attend the Royal Society
meeting on 12 May 1955 at which Chain and Marotta
gave an account of work at the Istituto Superiore di
Sanità.
- K.148 Correspondence with Marotta and others, 1957-58.
Includes arrangements with the British Ambassador in
Rome for a lunch to celebrate the award of the C.B.E.
to Marotta.
- K.149 Letters from Marotta and family to Chain, 1964-70.
Folder also includes press-cuttings re the 'Marotta
trial', ms. draft of letter from Chain to Marotta
regretting his absence at the Royal Society anniversary
dinner, n.d., c.1967, and press-cutting of obituary
by G. Sermonti, n.d.

General correspondence

- | | | |
|-------|--|---------------------------|
| K.150 | Marre, A. | 1970 |
| | Marshall, J. J. | 1971 |
| | <u>re</u> culture of <u>Pseudomonas stutzeri</u> . | |
| | Marshall, W. R. | 1953 |
| | <u>re</u> spray-drying of biochemical materials. | |
| | Martelli, P. | 1972 |
| K.151 | Mascherpa, P. | 1954, 1962-63 |
| | 1954 letters are <u>re</u> 'Sostanza M' discovered by Mascherpa. | |
| | Later correspondence includes announcement of Chain's election as Honorary Fellow of the Società Farmaceutica del Mediterraneo Latino. | |
| | Maske, H. | 1973, 1975, 1978 |
| K.152 | Massam, A. | 1970 |
| | <u>re</u> proposed news service for medical specialists. | |
| | Matthews, J. W. | 1939 |
| | <u>re</u> communication to <u>Mikrochemie</u> . | |
| | Maurois, A. | 1957, n.d. |
| | May, B. | 1949-50 |
| | <u>re</u> funding of scientific research. | |
| K.153 | Medawar, P. <u>and</u> Medawar, J. | 1965, 1976 |
| | Mehrishi, J. N. | 1970 |
| | <u>re</u> L-Asparaginase. | |
| | Meleny, F. L. | 1957 |
| | Meyer, K. | 1950 |
| K.154 | Miles, A. A. <u>and</u> Miles, E. | 1934-35, n.d.,
1950-65 |
| | Personal and scientific correspondence.
Includes 2 pp. letter from Chain summarising his research work 1950-65. | |

General correspondence

- K.155 Mintz, L. J. 1968-69
re Medintron, pH telemetering capsule.
Includes letter from B. Sayers.
- K.156 Mirsky, I. A. 1957-58, 1961
Personal and scientific correspondence, mainly
re work on insulin.
- K.157 Mittwoch, U. 1969-70
Mainly re grant application for work on sex
chromosomes in embryos.
- Monroy, A. 1958, 1961
1958 correspondence is re arrangements for Monroy
to use radiochromatography facilities in Chain's
laboratory.
- K.158 Morton, O. 1969
re Lucidril.
- Munday, K. A. 1969
re policy of the Research Councils.
- Murray, I. G. 1970
re work on isolation of antigens from pathogenic
fungi. Includes correspondence with J.M. Dewdney.
- K.159, K.160 Nachmanson, D. 1953-70
Personal and scientific correspondence.
- K.159 1953-59
Includes arrangements for exchange of visits, accounts
of research in progress, etc.
- K.160 1965-70
Includes correspondence re lawsuit against S. Ochoa,
and undated ms. of speech by Chain introducing a
lecture by Nachmanson.
- K.161 Naftalin, J. M. 1948, 1953-55

General correspondence

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|-------------|--|---------------|
| K.162 | Nathan, 1st Baron | 1954-63 |
| | Mainly personal correspondence.
Includes letter from S. Berwin following Nathan's death in October 1963. | |
| K.163 | Nathan, 2nd Baron | 1973, 1977 |
| K.164 | Neri, P. | 1973-74, 1979 |
| | Includes comments on progress of research on interferon at the Istituto Sieroterapico e Vaccinogeno Toscano "Sclavo". | |
| K.165 | Neuberger, A. | 1954-79 |
| | Mainly personal correspondence. | |
| K.166 | Nowinski, W. W. | 1963 |
| | Ochoa, S. | 1974 |
| K.167-K.169 | Okami, Y. | 1976-79 |
| | Correspondence resulting from Chain's meeting with Okami during his visit to Japan in 1976 (see J.165-J.171). | |
| K.167 | 1976 | |
| | Mainly <u>re</u> arrangements for Okami and colleagues to visit the fermentation pilot plant at Imperial College. | |
| K.168 | 1977 | |
| | Arrangements for a visit by Okami to the I.C.I. laboratories at Billingham (cancelled at the last minute). Includes correspondence with the Kakenyaku Kako Co. Ltd. <u>re</u> supply of Myroridin. | |
| K.169 | 1978-79 | |
| | Includes correspondence <u>re</u> toxicity of <u>Monascus rubrus</u> . | |

General correspondence

- | | | |
|--------------|---|------------------|
| K.170 | Olbert, T. | 1950-51, n.d. |
| | Personal correspondence. | |
| | Olson, J. A. | 1952, 1958, 1969 |
| | 1952 correspondence consists of a letter from H. Koffler, addressed to Olson at the Istituto Superiore di Sanità, <u>re</u> paper by Olson on glutamic acid dehydrogenase. The letter also refers to work by Chain in the same field. | |
| K.171 | Opie, L. H. | 1979 |
| | Opitz, D. | 1976 |
| K.172, K.173 | Painter, N. S. | 1971-75 |
| | <u>re</u> fibre and diverticular disease. | |
| K.172 | 1971 | |
| | Includes draft of paper by Painter and others on treatment of diverticular disease. | |
| K.173 | 1972-75 | |
| K.174 | Pauling, L. | 1955, 1957 |
| | 1957 correspondence is <u>re</u> appeal to ban testing of nuclear weapons. | |
| K.175 | Pekeris, C. <u>and</u> Pekeris, L. | 1954, 1971, 1972 |
| | Pendse, C. G. | 1938 |
| | Personal correspondence. | |
| | Penick, S. B. | 1970 |
| | Penn, J. | 1970, 1972 |
| | Includes typescript reports on visits to Taiwan and the Gabon. | |

General correspondence

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|-------------|--------------------------|------------|---|
| K.176-K.178 | Peters, R. A. | 1949-78 | Personal and scientific correspondence. |
| K.176 | 1949-59 | | Earlier letters are mainly personal. Correspondence 1957-59 includes arrangements for collaborative work on the metabolism of labelled pyruvate in brain tissue, with plans for research and comments on experimental results. |
| K.177 | 1961-64 | | Continuing correspondence <u>re</u> work on labelled pyruvate, interspersed with arrangements for musical evenings. |
| K.178 | 1966-78 | | Mainly personal correspondence. Includes drafts of speech proposing vote of thanks to Peters on the occasion of the Second Prize Lecture of the British Nutrition Foundation, 7 November 1972. |
| K.179 | Petrow, V. | 1968 | |
| | Philipp, E. E. | 1978 | <u>re</u> 'cancer families'. Includes typescript report on 'Familial carcinoma of the Ovary'. |
| | Philipp, L. | 1978 | |
| K.180 | Philpot, F. J. ('Flops') | 1949-52 | News of research and personal affairs. Several letters refer to her joint patent application with Chain for 'Improvements in or relating to the preparation of stable penicillin-containing solutions' (see B.42). 1949 letter is <u>re</u> crystalline penicillin. |
| | Pirie, N. W. | 1963, 1967 | 1963 correspondence is <u>re</u> meeting of the provisional U.K. Committee for the International Biological Programme. |

General correspondence

- K.181-K.183 Pirt, S. J. 1949-75
Personal and scientific correspondence.
- K.181 1949-57
Includes several letters from Pirt re grant applications for research to be done in Chain's laboratory in Rome (1949-50), and news of research and personal affairs.
- K.182 1958-60
Includes correspondence re negotiations for Pirt to be seconded to assist in setting up Chain's new department at Imperial College.
- K.183 1961-69, 1975
Mainly re research in progress at Queen Elizabeth College, London (including work on interferon) and possibilities for collaboration with Imperial College.
- K.184, K.185 Pocchiari, F. 1957-77
Personal and scientific correspondence.
- K.184 1957-68
re research methods and results, suppliers of equipment (for Imperial College), publications, etc.
Includes comments on the progress of the 'Marotta case' (q.v.).
- K.185 1971-77
Includes photocopy of typescript draft by Chain on 'The Case for the Creation of an Independent European Research Institute for Physiological Biochemistry in Italy', sent to Pocchiari, 14 June 1973, and letters re negotiations with Montedison and others.
See also F.195, F.266, K.65.
- K.186 Pollock, M. R. 1950, 1961-75
1950 letter is re penicillinase. Remaining correspondence includes letters re policy of the Medical Research Council, requests for help with research projects, and arrangements for meetings and visits.

General correspondence

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|-------|---|------------------------------|
| K.187 | Polonovski, M. | 1949-54 |
| | Personal correspondence. Includes arrangements for visits and lectures. | |
| K.188 | Popjak, G. J. <u>and</u> Popjak, H. | 1963, 1969, 1971, 1972, n.d. |
| | Popper, H. | 1963 |
| | Porrirt, A. | 1971 |
| | <u>re</u> visit of H. Ford to New Zealand. | |
| | Porter, G. | 1970, 1972 |
| | Includes invitation to Chain to become a member of the Royal Institution (declined). | |
| K.189 | Postgate, J. | 1958-59 |
| | Pragier, G. | 1974 |
| | (Chain's carbon only) <u>re</u> innovation in the development of the semi-synthetic penicillins. | |
| | Pullinger, B. D. | 1937 |
| | Quastel, J. H. | 1953, 1957, 1973 |
| K.190 | Quayle, J. R. | 1974, 1978 |
| | 1974 correspondence is <u>re</u> experiments with yeast growing on methanol. | |
| | 1978 correspondence is <u>re</u> undergraduate courses in industrial microbiology. | |
| K.191 | Radi, I. | 1977 |
| | Rajan, V. S. G. | 1954 |
| | <u>re</u> arrangements for supply of stainless steel fermentors and other equipment to the National Chemical Laboratory of India. | |
| | Raper, K. B. | 1959 |

General correspondence

- | | | |
|-------------|---|---------|
| K.192 | Rayne, M. | 1976-77 |
| | Includes correspondence re the Museum of the Diaspora (Beth Hatefutsoth) and the Max Rayne Institute. | |
| | Reading, H. W. | 1961 |
| | Reid, L. | 1973 |
| K.193 | Reith, W. S. | 1959 |
| | <u>re</u> work on fat absorption and transport. | |
| K.194-K.196 | Rey, L. | 1975-79 |
| | Most of Chain's earlier correspondence with Rey is in Section F, as he was Research Director of Nestlé Alimentaria S.A. until his early retirement due to ill health in 1974. The following letters cover a wide variety of topics and refer to various scientific and industrial projects in which both Chain and Rey were involved. | |
| K.194 | 1975-76 | |
| | Includes copy of a letter from R. Hamelin <u>re</u> possibility of developing a 'Service de Biosynthèse' at the Institut National des Sciences Appliquées de Lyon (I.N.S.A.) and correspondence <u>re</u> progress of other projects including development and production of synthetic proteins. | |
| K.195 | 1977 | |
| | Includes discussion of various projects and arrangements for meetings and visits. | |
| K.196 | 1978 | |
| | Includes personal correspondence and arrangements for meetings and visits as well as reports on progress of various projects in hand. | |
| K.197 | Ribbons, D. W. | 1969 |
| | <u>re</u> fermentations of <u>Pseudomonas aeruginosa</u> and <u>Pseudomonas testosteroni</u> to be carried out at Imperial College. | |
| | Riccoboni, L. | 1958 |
| | Richards, G. | 1979 |
| | Richter, D. | 1954 |

General correspondence

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|-------------|--|------------|
| K.198 | Riley, M. V. | 1963 |
| | Rittenberg, D. | 1957, 1964 |
| | Robertson, I. R. T. | 1969, 1970 |
| | Includes letter from D.F. de Almeida. | |
| | Robinson, D. | 1969 |
| K.199-K.202 | Robinson, R. | 1945-75 |
| | Personal and scientific correspondence. | |
| K.199 | 1945, 1951-61 | |
| | Includes letter from Chain <u>re</u> arrangements for visit to Rome by Robinson, 1951, information <u>re</u> research in progress, etc. 1961 correspondence <u>is re</u> negotiations with Marks and Spencer for formation of consultancy panel consisting of Chain, Robinson and E.C. Dodds. | |
| K.200 | 1965-67 | |
| | Includes correspondence <u>re</u> Nobel Prize nominations and availability of cultures of <u>Helminthosporium gramineum</u> and <u>Helminthosporium cynodontis</u> . | |
| K.201 | 1969-72 | |
| | Includes exchanges <u>re</u> research, Nobel Prize nominations and social activities. Robinson's letter of 22 December 1971 mentions the forthcoming absorption of Glaxo by Beechams and the controversy over the research record of the two companies. | |
| K.202 | 1973-75 | |
| | Most of Chain's letters for this period were written in response to requests for information required by Robinson during the writing of his autobiography. Chain's letter of March 1973 contains an outline of his career including a description of scientific and musical life in Berlin during the 1920s. His letter of 28 March 1974, for which there are several drafts, contains a description of his work in Oxford and an outline of his subsequent scientific research. | |

General correspondence

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|--------------|---|----------------------------------|
| K.203 | Rothschild, A. | 1970, 1972 |
| | Rothschild, E. de | 1975 |
| | Rothschild, J. | 1971 |
| K.204 | Rothschild, M. (Miriam Lane) | 1971-78 |
| | Includes correspondence about the Scheu Foundation for Asthma and Respiratory Diseases. | |
| K.205, K.206 | Rothschild, N. M. V. | 1966-76 |
| K.205 | 1966, 1970-71 | |
| K.206 | 1972, 1976 | |
| | Includes two drafts of a long letter from Chain, February 1972, in reply to a request from Lord Rothschild for 'a brief note about the discovery of cephalosporin and its commercial exploitation'. An earlier letter (January 1972) contains comments on the Medical Research Council's attitude to the development of penicillin. | |
| K.207 | Rowley, D. | 1948, 1957 |
| | 1948 letter is <u>re</u> research on penicillin.
1957 letter is <u>re</u> lysozyme. | |
| | Rubbo, S. D. | 1961 |
| | Includes discussion of Fleming's view of the therapeutic uses of penicillin. | |
| K.208 | Sabin, A. B. | 1965 (Chain's carbon only), 1969 |
| | 1969 correspondence is <u>re</u> development of oral polio vaccine in the U.S.S.R. | |
| | Sampson, M. T. | 1952 |
| | (Chain's carbons only). | |
| | Schindel, L. | 1957 |
| | <u>re</u> request to Chain to write a preface to a book by Schindel on antibiotics. Includes letters from A.L. Olitzki and K. Burg. | |

General correspondence

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|-------|---|------------|
| K.209 | Schlitter, C. | 1954 |
| | <u>re</u> visits to India and Japan. | |
| | Schwartzkopf, O. | 1934, 1973 |
| | Schweiger, A. | 1975 |
| | Includes correspondence <u>re</u> Farmitalia and Montedison. | |
| K.210 | Sellinger, O. Z. | 1961-62 |
| | <u>re</u> publication of papers in <u>Biochimica et Biophysica Acta</u> and <u>Proceedings of the Royal Society</u> . | |
| | Includes correspondence with the editors of both journals. | |
| K.211 | Semerano, G. | 1950, 1955 |
| | Serlupi, G. | 1961 |
| | Sermonti, G. | 1958, 1962 |
| K.212 | Shannon, R. B. B. | 1971 |
| | <u>re</u> the Conference of Industrial Research Associations. (Includes duplicated material.) | |
| | Shelesnyak, M. C. | 1952 |
| | Sime, J. M. | 1973 |
| | Personal correspondence. | |
| K.213 | Sinclair, H. M. | 1972 |
| | <u>re</u> plans for an Institute of Human Nutrition. Also includes draft of grant application for study of 'The relation of dietary fatty acids, sugars and fibre to coronary heart disease'. | |
| | Sinker, P. | 1955 |
| K.214 | ✓
Skola, V. | 1949-62 |
| | Mainly <u>re</u> industrial production of antibiotics in Czechoslovakia. Includes personal correspondence. | |

General correspondence

- K.215 Skryabin, G. K. 1959-72
Letters from Chain to Skryabin only, with one exception (1964). Includes one letter to K.J. Skryabin (father).
- K.216 Slater, W. 1952
(Chain's carbons only).
- Smith, H. G. 1967-68
re request to Chain to write foreword to book by Smith on antibiotics.
- Smith, J. H. C. 1957
re infrared derivative spectroscopy. Includes letter from C.S. French.
- Smythe, F. T. 1970
re research projects in fermentation technology.
- K.217 Sokhey, S. S. 1952-54
re organisation of penicillin production in India.
- K.218 Sorsby, A. 1957-59, 1961
re arrangements for collaborative work on carbohydrate metabolism in the retina. Includes letter from J.P. Newhouse (1958) with details of the proposed research.
- K.219 Sporn, P. 1971
Includes letter from R.S. Edwards.
- Springer, A. 1974, 1976
- K.220 Squire, J. R. 1963
- Starkey, R. L. 1953
Enclosing ms. on 'Quantitative Determination of Methyl Mercaptan, Dimethyl Disulfide and Dimethyl Sulfide in a Gas Mixture'.

General correspondence

- K.221 Steinman, H. G. 1961
Mainly re 6-APA.
- Stern, K. G. 1939, n.d.
- Stewart, G. T. 1961, 1965
1965 correspondence is re request to Chain to write preface to book by Stewart on 'The Penicillin Group of Drugs'.
- K.222 re Stickings, C. E. 1969, 1971-72
Mainly re fund-raising for the C. Ewart Stickings Memorial Fund established to provide two annual prizes at Imperial College 'for excellence in Biochemistry'.
- K.223 Strohmaier, K. 1968
re ultrafiltration apparatus.
- Stromas, A. 1974
- K.224 Stulman, S. L. 1970
re possible collaboration between the proposed Institute of Society, Ethics and the Life Sciences and the Weizmann Institute of Science. Includes copy of a letter from I. Sieff to C. Weizmann written on the occasion of the opening of the Daniel Sieff Institute at Rehovoth in 1934 and 2 letters from D.M. Singer.
- K.225 Swet, G. 1957-58, 1966
- Swinburne, J. K. 1970
- Sykes, G. 1958
re plans for Anglo-Italian meeting in Rome on fermentation problems.
- K.226 Tahourdin, P. A. I. 1949-61
Includes brief correspondence, 1950, re Chain's proposed visit to U.S.A., ms. draft of talk about the International Research Centre for Chemical Microbiology (on verso of letter from Tahourdin, 11 December 1950) and some personal correspondence.

General correspondence

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|-------------|---|------------------|
| K.227 | Tayeau, F. | 1963-76, n.d. |
| | Mainly personal correspondence. | |
| K.228-K.230 | Theorell, H. | 1949-75 |
| | Personal and scientific correspondence. | |
| K.228 | 1949-54 | |
| K.229 | 1955-59 | |
| K.230 | 1962-75 | |
| K.231 | Thomas, A. | 1975 |
| | Copy of letter to the Editorial Board of the <u>Biochemical Journal</u> in reply to criticisms of papers submitted by Thomas and colleagues. | |
| | Thompson, K. W. | 1974 |
| | Thompson, R. H. S. | 1958, 1971, 1976 |
| | 1958 letter is Chain's carbon only <u>re</u> plans for holding an International Biochemical Congress in Rome. | |
| | Thornton, G. | 1955 |
| K.232 | Tiselius, A. | 1949-63 |
| K.233 | Todd, A. R. | 1957-79 |
| | Fragmentary correspondence, mainly replies to letters of congratulation from Chain. Includes arrangements for a visit to Todd in September 1979. (Chain died in August.) | |
| K.234 | Tødt, F. | 1954-55 |
| | Mainly <u>re</u> arrangements for a member of Chain's laboratory (G. Gualandi) to visit Tødt's laboratory in order to compare methods of measuring concentrations of dissolved oxygen. | |
| K.235 | Tonolo, A. | 1950-55, 1965 |
| | Mainly reports on progress of research in Zürich where Tonolo spent most of 1955 improving his knowledge of mycology. Folder also includes a letter from R. Falini, December 1954, describing a visit to Astra (q.v.) with Tonolo, and a letter from Zeltia S.A. <u>re</u> a visit by Tonolo in 1961. | |

General correspondence

- K.241-K.245 Umezawa, H. 1969-79
- For correspondence re Chain's visit to Japan in 1976 see J.165-J.171.
- K.241 1969
- Brief correspondence only re Chain's plans for a visit to Japan.
- K.242 1972-73
- re visit to England by Umezawa with other members of the Japan Academy in March 1973. Includes correspondence with the Royal Society re schedules and other arrangements and letters of thanks from Umezawa after visit to Imperial College. There is also an exchange in July and August 1973 about the Japanese Government's attitude to the production of yeast from paraffin.
- K.243 1976-78
- Includes letters of introduction for colleagues visiting England or Japan.
- K.244 1978
- Correspondence with E.P. Abraham re proposal to recommend Umezawa for the award of an Honorary Doctorate by Oxford University.
- K.245 1979
- Includes long letter from Umezawa discussing his work with T. Akiba, and correspondence re award of the Paul Ehrlich Prize to Akiba and Umezawa in June 1979.
- K.246 Van Beusekom-Kits van Heijningen, A. J. M. 1961-63, 1977
- Arrangements to do some research in Chain's laboratory in Rome and correspondence with colleagues re publication of a paper on glycogen. Includes a letter of introduction from W.E. van Heyningen (q.v.).
- 1977 letter is mainly personal news.
- K.247 Van Heyningen, W. E. 1954, 1959
- Personal and scientific correspondence.

General correspondence

- K.248, K.249 Venkataraman, K. 1953-77
- K.248 1953-58
Includes arrangements for Venkataraman to work in Chain's laboratory.
- K.249 1963, 1977
Mainly personal correspondence. Includes exchange with K.R.L. Mansford re supply of Amoxycillin for Venkataraman's personal use.
- K.250 Vernon, C. A. 1974
re future of biochemical research in England.
- Vickrage, J. D. M. 1973
re work on the biochemistry of the crystalline lens.
- K.251, K.252 Virtanen, A. I. 1949-71
- K.251 1949-55
Includes arrangements for Virtanen to give a lecture in Rome, April 1950, and personal correspondence re further visits to Rome.
- K.252 1957-59, 1963, 1971
Mainly re arrangements for Chain to lecture in Helsinki in March 1959. 1971 correspondence contains exchanges of personal news.
- K.253 Virtanen, O. E. 1953, 1959
News of work on penicillin, requests for samples of penicillium chrysogenum. Copy of an undated article in Finnish on 'Penicillin and Penicillinase' (with English translation) is also included here.
- K.254 Vlitos, A. J. 1969-72, 1977
Includes arrangements for visit to Imperial College by the Soviet Delegation on Protein Synthesis, invitations to Chain to visit the Tate and Lyle Research Centre, and some more personal correspondence.

General correspondence

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|--------------|--|------------|
| K.255 | Volke, W. | 1968 |
| | Vonderbank, H. | 1952 |
| K.256 | Waelsch, H. | 1962 |
| | <u>re</u> metabolism of glutamic acid. | |
| K.257, K.258 | Waksman, S. A. | 1948-76 |
| K.257 | 1948-55 | |
| | <u>re</u> meetings, visits, research, etc. Includes correspondence with the Science Attaché of the American Embassy <u>re</u> prospects of obtaining a visa to attend the opening of Waksman's new Institute of Microbiology, and some personal correspondence. | |
| K.258 | 1959-68, 1976 | |
| | Includes correspondence <u>re</u> the activities of the Committee on Antibiotics of the World Health Organisation (q.v.) and ms. drafts of message to Waksman on his 80th birthday. In addition the folder contains a request to Chain to join the Advisory Board of the Organising Committee for the Selman A. Waksman Memorial Lectureship (1976). | |
| K.259 | Walker, N. | 1955, 1958 |
| | Includes copy of report to the Agricultural Research Council on work done in Chain's laboratory on 2 : 4-D and naphthalene. | |
| | Wall, P. D. | 1972 |
| | <u>re</u> proposed Clinic and Research Centre on Pain to be set up in Israel. | |
| K.260 | Walters, A. H. | 1969 |
| | <u>re</u> proposed research and information centre on antimicrobials, biocides and disinfectants. | |
| | Warburg, O. | 1961 |
| | Ward, P. S. | 1969 |

General correspondence

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|-------------|--|------------|
| K.261 | Wartenberg, F. | 1950, 1953 |
| | Waterworth, P.
(Chain's carbon only). | 1977 |
| | Weber, H. H. | 1963 |
| | Weiss, D. W.
(Chain's carbon only). | 1972 |
| K.262 | Weiss, E.
<u>re</u> use of enzyme preparations for preventive
medical purposes. | 1971 |
| K.263 | Weissberger, A.
Personal and scientific correspondence. | 1949-70 |
| | Wells, G. W.
<u>re</u> supply of radioactive isotopes to institutions in
Italy and Sicily. | 1951 |
| K.264-K.268 | Westphal, O.
Personal and scientific correspondence. Includes
copies of several letters to F.P. Doyle and J.M.
Dewdney of the Beecham Research Laboratories <u>re</u>
collaborative research projects. | 1970-77 |
| K.264 | 1970-71
Includes copies of letters to F.P. Doyle and J.M.
Dewdney (Beecham Research Laboratories) and
P. Alexander (Chester Beatty Research Institute)
<u>re</u> preparations for collaborative work on 'Lipid A'. | |
| K.265 | 1972
Includes copies of correspondence with F.P. Doyle and
J.M. Dewdney <u>re</u> negotiations to include Sandoz in
collaborative research on further developments of the
'Lipid A' work, and invitation to Chain to attend
Westphal's 60th birthday celebrations in February 1973. | |
| K.266 | 1973
Includes correspondence <u>re</u> nominations for the Paul
Ehrlich Prize, further correspondence with Beechams
and copy of a letter from Westphal to M. Beloff
accepting membership of the International Advisory
Council of the Independent University (q.v.) | |

General correspondence

- K.267 1974
Includes several letters from Westphal to J.M. Dewdney re progress of collaborative work on ds-RNA, a further exchange with M. Beloff about the University College at Buckingham, and some personal correspondence.
- K.268 1975
Includes copy of a letter about the closure of the Lister Institute and correspondence re nominations for the Paul Ehrlich Prize.
- K.269-K.276 Whelan, W. J. 1967-73
Correspondence arising from proposal by Chain to offer Whelan a Visiting Professorship for 3 months each year at the Department of Biochemistry, Imperial College, in order to continue to direct a research group on glycogen synthesis.
- K.269 1967
Includes: correspondence with the Acting Rector (O.A. Saunders) and others at Imperial College re arrangements for Whelan's appointment as Visiting Professor; brief correspondence re grant application to the Medical Research Council; correspondence re staffing arrangements.
- K.270 February-April 1968
Includes letter from Whelan offering Chain the appointment of Visiting Professor in the Department of Biochemistry at the University of Miami for 3 years, and Chain's letter of acceptance.
- K.271 May 1968
Drafts of grant application to M.R.C. by Chain and Whelan for work on glycogen metabolism, with letter from Whelan, 9 May.
- K.272 June-December 1968
Includes correspondence re the M.R.C. grant application, arrangements for Chain's visit to Miami in January 1969, including programme of symposia and lectures, and miscellaneous administrative correspondence.
See also J.93, J.94.

General correspondence

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|-------|--|---------------------|
| K.273 | January-December 1969 | |
| | <u>re</u> arrangements for travel between Miami and London and miscellaneous other administrative affairs. Includes letter from Chain, November 1969, regretting his inability to travel to Miami in January 1970 because of ill health. | |
| K.274 | Reports on experiments performed by Whelan and others, c.May-July 1969. | |
| K.275 | January-November 1970 | |
| | Includes letters <u>re</u> Whelan's resignation as Visiting Professor at Imperial College and miscellaneous personal and administrative correspondence. | |
| K.276 | 1971-73 | |
| | Brief correspondence only. | |
| K.277 | Wildenthal, K. | 1972 |
| | <u>re</u> possible collaborative work on insulin. | |
| | Williams, R. J. R. | 1962 |
| | <u>re</u> ferroverdin. | |
| | Williamson, A. C. | 1972 |
| | <u>re</u> protein in edible fungi. | |
| K.278 | Wilson, J. H. | 1964 |
| | (Chain's carbon with reply by secretary) <u>re</u> science policy. | |
| | Wiseman, L. A. | 1971 |
| | <u>re</u> activities of the Shirley Institute, Manchester. | |
| K.279 | Wolfson, I. | 1961-62 |
| | Wolfson, L. G. | 1959, 1969-70, 1977 |
| | Includes correspondence <u>re</u> research on desalination in Israel. | |

General correspondence

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|--------------|---|------------|
| K.280 | Woodruff, M. | 1976 |
| | <u>re</u> plans for research after his retirement from active clinical work. | |
| | Woods, D. D. | 1952 |
| | (Chain's carbons only). | |
| | Also included is ms. draft of letter of condolence to Mrs. Woods on the death of her husband, 1964. | |
| | Work, E. | 1952, 1961 |
| | 1952 correspondence is Chain's carbons only, <u>re</u> arrangements for growing bacteria in Chain's laboratories for Dr. Work. | |
| K.281 | Wren-Lewis, J. | 1969 |
| | Wright, P. H. | 1961 |
| | Wrinch, D. | 1961 |
| K.282 | Yaakov, I. | 1976-77 |
| | Includes correspondence <u>re</u> anti bovine mastitis drug, 'Abimasten 100'. | |
| K.283, K.284 | Young, F. G. | 1953-74 |
| | Personal and scientific correspondence. | |
| K.283 | 1953, 1957-62 | |
| | Includes several letters <u>re</u> publication arrangements for lecture given by Young in Rome (see C.92) and suggestions for collaborative work on glucose metabolism. | |
| K.284 | 1965-74 | |
| | Includes correspondence <u>re</u> affairs of the British Nutrition Foundation (q.v.). | |

General correspondence

K.292-K.311 SHORTER UNINDEXED CORRESPONDENCE

K.292-K.303 Shorter scientific correspondence: mainly requests for equipment, specimens, brief exchanges of information, etc., 1949-78. In alphabetical order. Not indexed.

- K.292 A
- K.293 B
- K.294 C - D
- K.295 F - G
- K.296 H - J
- K.297 K
- K.298 L
- K.299 M - N
- K.300 P
- K.301 R - S
- K.302 T - V
- K.303 W - Z and unidentified

K.304-K.311 Shorter correspondence re exchange of reprints, 1948-79. In chronological order. Not indexed.

- K.304 1948-54
- K.305 1957-59
- K.306 1962-64
- K.307 1968-69
- K.308 1970-71
- K.309 1972-73
- K.310 1974-76
- K.311 1977-79

General correspondence

K.312-K.341 EXAMINING, REFERENCES AND APPOINTMENTS

K.312, K.313 Correspondence and reports on various doctoral theses from Indian universities, 1948-62. Not indexed.

K.312 1948-57

K.313 1958-62

K.314 Correspondence re examining of doctoral theses for London University, 1970. Not indexed.

K.315-K.329 Correspondence re references and appointments, c.1950-78. Not indexed.

K.315 B

K.316 C

K.317 D

K.318 E

K.319 F

K.320 G

K.321 H

K.322 J - L

K.323 M

K.324 O

K.325 P - Q

K.326 R

K.327 S

K.328 T

K.329 V - Y, unidentified

General correspondence

- K.330-K.339 Correspondence re refereeing of grant applications, etc. for societies and organisations.
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|-----------------|--|------------|
| K.330 | Australian Research Grants Committee | 1976 |
| K.331 | Cambridge University | 1973-74 |
| K.332 | J.S. Cohen Foundation | 1973 |
| K.333 | Department of Scientific and Industrial Research | 1963, 1964 |
| K.334 | J.S. Guggenheim Memorial Foundation | 1975 |
| | Harvey Prize Fund | 1977 |
| | Leverhulme Trust Fund | 1971 |
| | Mental Health Research Fund | 1969 |
| K.335,
K.336 | Nobel Prize Committee | 1954-73 |
| K.335 | 1954-63 | |
| K.336 | 1967-73, n.d. | |
| K.337,
K.338 | Rothschild Prizes Organization in Israel | 1978 |
| K.337 | Correspondence. | |
| K.338 | Ms. and typescript notes and drafts. | |
| K.339 | Wolfson Foundation | 1970 |
| K.340 | Requests for references from members of Beecham Research Laboratories, 1965-68. Not indexed. | |
| K.341 | Miscellaneous requests for advice or information on careers, some with replies by Chain, 1968-75. Not indexed. | |

LIST OF PUBLICATIONS

The following list was prepared at Imperial College immediately after Chain's death in 1979, and corresponds to the contents of the box of publications at G.1 where the original list is enclosed. References to the list, in Section G and elsewhere, are given in the form (Bibliog.). It is recognised that the list is not a complete bibliography (see the Introduction to Section G), but it is the only currently available guide to Chain's publications.

LIST OF SIR ERNST CHAIN'S PUBLICATIONS

1. BEITRAGE ZUR ENZYMATISCHEN ESTERBILDUNG UND SPOLTUNG:
P. Rona, E. Chain & R. Ammon
Bioch. Zeitschr. (1932) 247, 113
2. ZUR KONFIGURATIONS SPECIFITAT DER ESTERSYNTHETISIERENDEN FERMENTE:
P. Rona & E. Chain
Bioch. Zeitschrift (1933) 258, 480
3. THE ISOELECTRIC POINTS OF LECITHIN & SPHINGOMYELIN:
E. Chain & I. Kemp
Biochem. J. (1934) 2052
4. THE SPONTANEOUS DECOMPOSITION OF LECITHIN & ITS BEARING ON THE DETERMINATION OF THE ISOELECTRIC POINT:
H. Fischgold & E. Chain
Biochem. J. XXVIII, No. 6 (1934) 2044-2051
5. ON THE AMPHOLYTIC NATURE OF PHOSPHOLIPINS:
H. Fischgold & E. Chain
Proc. Roy. Soc. London, Series B, No. 804 117, 239-257 (1935)
6. EFFECT OF SNAKE VENOMS ON GLYCOLYSIS & FERMENTATION IN CELL-FREE EXTRACTS:
E. Chain
Quar. J. of Exp. Physiol. 26 No. 3 (1937) 299-303
7. NEUTRALISATION OF THE ANTIFERMENTING PRINCIPLE IN SNAKE VENOMS BY ANTIVENINS:
Quart. J. Exp. Physiology (1937) 27, 49-54
E. Chain
8. STUDIES ON THE CHEMICAL NATURE OF THE ANTI FERMENTING PRINCIPLE IN BLACK TIGER SNAKE VENOM:
Quart. J. of Experimental Physiology, Vol. 27, No. 4 (Feb. 1938)
E. B. Chain & L. J. Goldsworthy
9. STUDIES ON PHOSPHORYLCHOLINE:
A. B. L. Beznak & E. Chain
Quar. J. Exp. Physiol. (1937) 26, No. 3, 201-214
10. STUDIES ON THE COLORIMETRIC DETERMINATION OF PHOSPHATE:
I. Berenblum, E. B. Chain
Biochem. J. Vol. XXXII, No. 2 (1938) 286-294

Publications

11. AN IMPROVED METHOD FOR THE COLORIMETRIC DETERMINATION OF PHOSPHATE:
I. Berenblum & E. B. Chain
Biochem. J. Vol. XXXII (1938) 295-298
12. A RETICULOCYTOGENIC AGENT FOR GUINEA-PIGS PRESENT IN CERTAIN GASTRO-
INTESTINAL SECRETIONS:
J. Goodfriend, E. B. Chain & H. W. Florey
Quart. J. of Experimental Physiology & Cognate Medical Sciences, Vol. 28, No. 2
(July 1938)
13. INHIBITION OF DEHYDROGENASES BY SNAKE VENOM:
E. B. Chain
Biochem. J. Vol. XXXIII, No. 4 (1939) 407-411
14. A MUCOLYTIC ENZYME IN TESTIS EXTRACTS:
E. B. Chain, E. S. Duthie
Nature, Vol. 144 (9 Dec. 1939) 977
15. THE STUDY OF METABOLIC ACTIVITIES OF SMALL AMOUNTS OF SURVIVING TISSUES:
I. Berenblum, E. B. Chain, N. G. Heatley
Biochem. J. Vol. XXXIII, No. 1 (1939) 68-74
16. A POLYPEPTIDE RESPONSIBLE FOR SOME OF THE PHENOMENA OF ACUTE INFLAMMATION:
E. S. Duthie, E. B. Chain
Brit. J. of Experimental Pathology, Vol. XX (1939) 417
17. VIII A NEW TYPE OF MICRORESPIROMETER:
N. G. Heatley, I. Berenblum, E. B. Chain
Biochem. J. Vol. XXXIII, No. 1 (1939) 53-67
18. IDENTITY OF HYALURONIDASE & SPREADING FACTOR:
E. B. Chain, E. S. Duthie
Br. J. of Experimental Pathology, Vol. XXI (1940) 324
19. PENICILLIN AS A CHEMOTHERAPEUTIC AGENT:
E. B. Chain, H. W. Florey, A. D. Gardner, N. G. Heatley, M. A. Jennings,
J. Orr-Ewing, A. G. Sanders
The Lancet (24 August 1940) 226
20. AN ENZYME FROM BACTERIA ABLE TO DESTROY PENICILLIN:
E. P. Abraham, E. Chain
Nature (1940) 146, 837

Publications

21. CARBOHYDRATE METABOLISM OF TUMOURS:
I. Berenblum, E. B. Chain, N. G. Heatley
Nature, Vol. 145 (18/5/1940) 778
22. THE METABOLISM OF NORMAL & NEOPLASTIC SKIN EPITHELIUM:
Evidence against the theory that Aerobic Glycolysis associated with a low R.Q. is a feature of a Disturbed Metabolism indicative of a Tumour growth.
I. Berenblum, E. B. Chain, N. G. Heatley
American Jour. of Cancer, Vol. XXXVIII, No. 3 (March 1940)
23. SOME OBSERVATIONS ON THE PREPARATION AND PROPERTIES OF THE SUBSTRATE OF LYSOZYME:
L. A. Epstein, E. Chain
Brit. J. Exp. Path. (1940) 21, 339
24. FURTHER OBSERVATIONS ON PENICILLIN:
E. P. Abraham, E. Chain, C. M. Fletcher, A. D. Gardner, N. G. Heatley, M. A. Jennings, H. W. Florey
Lancet (1941) 177-
25. AN ANTIBACTERIAL SUBSTANCE PRODUCED BY PENICILLIUM CLAVIFORME:
E. Chain, H. W. Florey, M. A. Jennings
Brit. J. Exp. Path (1942) 23, 202
26. THE NITROGENOUS NATURE OF PENICILLIN:
E. P. Abraham, W. Baker, E. Chain, H. W. Florey, E. R. Holiday, R. Robinson.
Nature (1942) 149, 356
27. PURIFICATION AND SOME PHYSICAL & CHEMICAL PROPERTIES OF PENICILLIN:
E. P. Abraham, E. Chain
Brit. J. Exp. Path. (1942) 23, 103
28. PROACTINOMYCIN, A BACTERIOSTATIC PRODUCED BY A SPECIES OF PROACTINOMYCES:
A. D. Gardner, E. Chain.
Brit. J. Exp. Path (1942) 23, 123
29. HELVOLIC ACID, AN ANTIBIOTIC PRODUCED BY A. FUMIGATUS:
E. Chain, H. W. Florey, M. A. Jennings, T. I. Williams
Brit. J. Exp. Path (1943) 24, 108.
30. PENICILLAMINE, A CHARACTERISTIC DEGRADATION PRODUCT OF PENICILLIN:
E. P. Abraham, E. Chain, W. Baker, R. Robinson
Nature (1943) 151, 107

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31. ANTIBACTERIAL SUBSTANCES PRODUCED BY BACTERIA & FUNGI (2) (Biochemistry)
E. Chain, H. W. Florey
Annual Reports of the Chemical Society (1944) 40.
32. PENICILLIN:
E. Chain, H. W. Florey
Endeavour (1944) Vol. III, No. 9.
33. IDENTITY OF PATULIN & CLAMFORMIN:
E. Chain, H. W. Florey, M. A. Jennings.
Lancet (1944) Series 1, 112
34. BACTERICIDAL & BACTERIOLYTIC ACTION OF PENICILLIN ON THE STAPHYLOCOCCUS:
E. Chain, E. S. Duthie
Lancet (1945) 652.
35. THE CHEMICAL STRUCTURE OF THE PENICILLINS: NOBEL LECTURE
E. B. Chain
Stockholm (20 March 1946)
36. LA COSTITUZIONE CHIMICA DELLA PENICILLINA:
E. B. Chain
Roma (1947) Vol. X
Congress at Istituto Superiore di Sanita
37. LA PENICILLINA: PROPRIETA CHIMICHE, BIOLOGICHE E TERAPEUTICHE:
E. B. Chain
Congress of the Istituto Superiore di Sanita. (1947)
38. THE CHEMISTRY OF PENICILLIN (1948):
E. B. Chain
Annual Review of Biochemistry (1948) 657-704.
39. INDUSTRIAL MICROBIOLOGY:
E. Chain
Research (1952) 5 567-576.
40. AERATION STUDIES 1. Factors influencing aeration efficiency:
 - 1 E. B. Chain, D. S. Callow, F. Ugolini, S. Paladino, J. van de Sluis
(Bulletin of W.H.O. (1952) 6, 73-97)

41. INTEGRATION OF PROTEIN & POLYNUCLEOTIDE SYNTHESIS IN ESCHERICHIA COLI

E. Callow, E. B. Chain, G. G. Harding, J. Malmgren, N. A. Elsohn, E. Hannarsten,
S. Agnelli

Instituto Superiore di Sanita, Vol. XVII (1955)

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41. OBSERVATIONS ON PENICILLIUM CHRYSOGENUM IN SUBMERGED CULTURE:
I. Mycelial Growth & Autolysis.
L. Camici, G. Sermoniti, E. B. Chain
Bulletin of World Health Organization (1952) 6, 265-276.
42. A MICROMETHOD FOR THE SERIAL DETERMINATION OF ORGANICALLY BOUND HALOGEN:
S. J. Pirt, E. B. Chain
Biochem. J. Vol. 50, No. 5 (1952) 716-719.
43. MICROBIOLOGY IN INDUSTRY:
Dr. E. B. Chain
Times Review of Industry (March 1953)
44. THE BIOCHEMICAL APPROACH TO BIOLOGICAL PHENOMENA:
Harben Lectures 1954
E. B. Chain
J. of Royal Institute of Public Health & Hygiene (May, June, Sept. 1966)
45. THE DEVELOPMENT OF BACTERIAL CHEMOTHERAPY:
Paul Ehrlich Lecture
E. B. Chain
International Record of Medical & General Practice Clinics, Vol. 167, No. 3 (March 1954)
Antibiotics & Chemotherapy 3-215 (1954)
46. AERATION STUDIES II:
Rend. Inst. Superiore, Sanita (1954) 17, 5
E. B. Chain & G. Gualandi.
47. BIOSYNTHETIC MECHANISMS OF THE FORMATION OF ORGANIC ACIDS IN MOULDS:
E. B. Chain
Proceedings of the International Congress of Biochemistry, Brussels (1955)
48. LA FIGURA E L'OPERA DI ALEXANDER FLEMING:
Prof. E. B. Chain
Nuova Antologia, Estratto-Anno 90, Vol. 464, fasc. 1853 (May 1955) 47.
49. A LABORATORY FERMENTER FOR VORTEX & SPARGER AERATION (1955):
E. B. Chain, S. Paladino, F. Ugolini, D. S. Callow, J. van der Sluis
Istituto Superiore di Sanita, Vol. XVII (1955) 61-86
50. INTERRELATION OF PROTEIN & POLYNUCLEOTIDE SYNTHESIS IN ESCHERICHIA COLI:
R. Cavanna, E. B. Chain, C. G. Heden, B. Malmaren, N. A. Eliasson, E. Hammersten,
S. Aqvist.
Istituto Superiore di Sanita, Vol. XVII (1955)

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51. THE EFFECT OF MECHANICAL AGITATION ON THE MORPHOLOGY OF *PENICILLIUM CHRYSOGENUM* GROWN IN STIRRED FERMENTERS (1955):
W. M. Dion, A. Carilli, G. Sermonti, E. B. Chain
Istituto Superiore di Sanita, Vol. XVII (1955)
52. FERMENTERS OF 90 + 300 l CAPACITY FOR VORTEX & SPARGER AERATION (1955):
S. Paladino, F. Ugolini, E. B. Chain
Istituto Superiore di Sanita, Vol. XVII (1955)
53. QUANTITATIVE BIDIMENSIONAL RADIOCHROMATOGRAPHY:
E. B. Chain, M. Frank, F. Pocchiari, C. Rossi, F. Ugolini, G. Ugolini.
Istituto Superiore di Sanita, Vol. 1, Part II (1956) 241-280.
54. CARBOHYDRATE METABOLISM IN RAT LIVER:
II Glycogen & fatty acid synthesis from glucose in perfused rat liver:
A. Beloff-Chain, D. Bovet, R. Catanzarro, E. B. Chain, R. Kohn, I. Masi & F. Pocchiari.
Istituto Superiore di Sanita (1956) Vol. II, Part I, 304-327.
55. EXPERIMENTS DESIGNED TO TEST THE "HEXOKINASE THEORY & PERMEABILITY THEORY" OF THE MODE OF ACTION OF INSULIN:
A. Beloff-Chain, R. Catanzarro, E. B. Chain, I. Masi & F. Pocchiari
Istituto Superiore di Sanita (1956) Vol. I, Part III.
56. CHEMISTRY & BIOCHEMISTRY OF ANTIBIOTICS:
E. B. Chain
Annual Review of Biochemistry, Vol. 27 (1958)
57. RECENT STUDIES ON CARBOHYDRATE METABOLISM:
E. B. Chain
Brit. Medical J. (17 Oct. 1959) Vol. II, 709-719.
58. SOME OBSERVATIONS ON THE MODE OF ACTION OF INSULIN:
E. B. Chain
Istituto Superiore di Sanita (1959)
59. NOTE ON THE STERILIZATION OF MEDIA CONTAINING SOLID ORGANIC MATERIAL IN LABORATORY & PILOT PLANT FERMENTERS:
E. B. Chain, S. Paladino, F. Zanchi.
Istituto Superiore di Sanita, Vol. II, Part I (1959) 88-98
60. THE DISTRIBUTION OF SULPHURYLCHOLINE IN FUNGI:
A. Ballio, E. B. Chain, F. Dentice di Accadia, F. Navazio, C. Rossi, M. Ventura
Istituto Superiore di Sanita, Vol. II, Part I (1959), Roma.

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61. THE FATE OF ^{35}S -SULPHATE & ^{35}S -METHIONINE IN A HIGH YIELDING & A NON-PENICILLIN PRODUCING STRAIN OF PENICILLIUM CHRYSOGENUM GROWN IN A SIMPLE REPLACEMENT MEDIUM:
A. Ballio, E. Brandl, E. B. Chain, F. Dentice di Accadia, F. Navazio, C. Rossi
Istituto Superiore di Sanita, Vol. II, Part II (1959)
62. GLUCOSE OXIDATION IN RAT BROWN ADIPOSE TISSUE HOMOGENATE:
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