Catalogue of the papers and correspondence of

César Milstein, CH, FRS

(1927-2002)

By Heather Bird and Timothy E. Powell
Title: Catalogue of the papers and correspondence of César Milstein CH FRS (1927-2002), molecular biologist

Compiled by: Heather Bird and Timothy E. Powell

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Wellcome Trust Research Resources in Medical History programme
**LIST OF CONTENTS**

<table>
<thead>
<tr>
<th>Section</th>
<th>Items</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL INTRODUCTION</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>SECTION A</td>
<td>A.1-A.126</td>
<td>10</td>
</tr>
<tr>
<td>SECTION B</td>
<td>B.1-B.84</td>
<td>32</td>
</tr>
<tr>
<td>SECTION C</td>
<td>C.1-C.340</td>
<td>43</td>
</tr>
<tr>
<td>SECTION D</td>
<td>D.1-D.152</td>
<td>94</td>
</tr>
<tr>
<td>SECTION E</td>
<td>E.1-E.45</td>
<td>122</td>
</tr>
<tr>
<td>SECTION F</td>
<td>F.1-F.23</td>
<td>130</td>
</tr>
<tr>
<td>SECTION G</td>
<td>G.1-G.94</td>
<td>135</td>
</tr>
<tr>
<td>SECTION H</td>
<td>H.1-H.187</td>
<td>156</td>
</tr>
<tr>
<td>INDEX OF CORRESPONDENTS</td>
<td></td>
<td>183</td>
</tr>
</tbody>
</table>
GENERAL INTRODUCTION

PROVENANCE

The papers were received for cataloguing from the Medical Research Council Laboratory of Molecular Biology, Cambridge, and from Dr Celia Milstein (widow) via the Laboratory in May 2005.

OUTLINE OF THE CAREER OF CÉSAR MILSTEIN

César Milstein was born in Bahía Blanca, Argentina, on 8 October 1927, the middle boy of three sons. His father was a Ukrainian Jewish immigrant and his mother, a teacher, was also Jewish but born in Argentina although her family had originally emigrated from Lithuania. As a child Milstein developed an interest in biology at an early age. In an interview in 1998 he recounted that it stemmed from a holiday visit made by his cousin, a chemistry graduate student from the University of Buenos Aires, when he was just over seven years old, ‘Her explanations of how she removed venom from snakes and used it to prepare antiserum to treat people bitten by poisonous snakes had a profound impact on me and awakened my interest in biology’.

After schooling at the Colegio Nacional in Bahía Blanca, Milstein went on to study chemistry at the University of Buenos Aires. Here he was active in student politics and met his future wife, Celia Prilleltensky. They married in 1953, taking a one year honeymoon trip travelling around Europe and Israel. Returning to the Instituto de Quimica Biologica at the University of Buenos Aires, Milstein studied for his doctorate under the direction of the eminent biochemist A.O.M. Stoppani, Professor of Biochemistry at the Medical School. To support themselves during this period both he and his wife worked part-time as clinical analysts, Milstein for Laboratorios Liebeschutz. He obtained his Ph.D. in 1957, for a kinetic analysis of the enzyme aldehyde dehydrogenase and on its completion Milstein was awarded a British Council Fellowship to go to Cambridge to work in the Department of Biochemistry under Malcolm Dixon, studying the mechanism of metal activation of the enzyme phosphoglucomutase. There he met Fred Sanger, with whom he formed a lifelong association, and completed a second doctorate. In 1961 he returned to Argentina as Head of Division de Biologia Molecular, Instituto Nacional de Microbiologia in Buenos Aires to continue his research into enzymes.

Upon returning to Argentina, the Milsteins found the political climate very different from before. Following a military coup ‘…political persecution of liberal intellectuals and scientists manifested itself as a vendetta against the director of the institute where I was working’, Milstein later wrote. The situation was intolerable and in 1963 Milstein left Argentina for the second time and returned to Cambridge to rejoin Sanger at the newly established Medical Research Council Laboratory of Molecular Biology. Here he was to remain for the rest of his career, Head of the Protein Chemistry
C. Milstein


At the Laboratory of Molecular Biology, on the advice of Sanger, Milstein switched from enzymology to immunology and work on antibodies, proteins produced by the cells of the immune system in response to attacks by foreign bodies (antigens). His research focused on the genetic study of antibody diversification, how antibodies acquire their ability to fight specific antigens and the means by which pure antibodies could be produced in the laboratory. Milstein’s research group was a lively one and many young scientists from all over the world, in later years especially from Spanish-speaking countries, came to research under him. It was with a German visiting researcher, Georges Köhler, who came from the Basel Institute for Immunology (Ph.D. University of Freiburg), that in 1975 Milstein invented the hybridoma technique for the production of monoclonal antibodies. By fusing antibody-producing cells with tumour cells, Milstein and Köhler were able to produce a hybridoma, which could then continuously synthesize antibodies that were identical to those produced by the antibody-producing cell before it was fused. Used as research tools, monoclonal antibodies revolutionised the way in which biologists viewed living systems but monoclonal antibody production also opened the way for the commercial development of new types of drugs and diagnostic tests in fields as diverse as cancer, the prevention of transplant rejection, pregnancy testing and the treatment of arthritis. In 1984 Milstein and Köhler received the Nobel Prize for Medicine for their work, along with N.K. Jerne, who had done theoretical work on the human immune system. Milstein and his research group continued to work in this field, improving and developing monoclonal antibody technology right up to his death, aged 74, on 24 March 2002. He was survived by his wife Celia.

Milstein won very many honours and awards. He was elected to the Fellowship of the Royal Society in 1975 (Wellcome Medal 1980, Royal Medal 1982, Copley Medal 1989, Croonian Lecture 1989) and in 1981 was made a Foreign Associate of the US National Academy of Sciences. Among the major prizes he received were the Avery-Landsteiner Prize of the Society for Immunology in 1979, the Wolf Prize in Medicine of the Wolf Foundation in 1980, the Robert Koch Prize (Germany) and Karl Landsteiner Award of the American Association of Blood Banks, both in 1982, and the Albert Lasker Basic Medical Research Award in 1984. These awards culminated with the award of the Nobel Prize in 1984. In 1995 Milstein was made a Companion of Honour for services to molecular biology and in 2000 the Medical Research Council awarded him its first Millennium Medal.

After the fall of the military government in Argentina in 1983 Milstein received many invitations to visit his native country and was accorded many honours, including in 1985 Honorary Membership of the Associacion Argentina de Alergia e Immunologia, in 1988 Honorary Fellowship of the National Academy of Sciences of Argentina and Honorary Membership of the Sociedad Científica Argentina.
C. Milstein

and in 2000 the Presidential Medal of Merit for Scientific Excellence. The same year he was made a Corresponding Member of the Academia de Ciencias de América Latina.


DESCRIPTION OF THE COLLECTION

The collection is presented as given in the list of contents. It is dominated by comprehensive documentation of the work of Milstein, and his research group, from the early 1950s to his death. A significant proportion of the material is in Spanish, reflecting his origins and his continuing connections with Argentina and the wider Spanish-speaking world.

Section A, Biographical, presents a range of material relating to Milstein’s life and career. There are obituaries, curricula vitae and a range of biographical accounts and interviews. His career is patchily documented but includes university certificates, formal papers relating to employment at the Laboratory of Molecular Biology and the contents of his office notice board at the time of his death. There is very good coverage of awards and honours accorded to Milstein from 1977 onwards. It includes the Avery-Landsteiner Prize 1979, Robert Koch Medal 1980, Wolf Prize 1980, Karl Landsteiner Memorial Award 1982, Albert Lasker Award 1984, Copley Medal of the Royal Society 1989, Companion of Honour 1995 and of course the Nobel Prize of 1984. There are also the Argentine honours accorded him from the 1980s onwards. Of additional interest are the contents of his two bulky folders of honours declined; in particular Milstein was disinclined to accept honorary degrees. Personal correspondence is varied and ranges from appeals for help or support for causes to College functions in Cambridge.

Section B, Laboratory of Molecular Biology, comprises two components. There is a sequence of office appointment diaries covering the period 1993-2002, and Milstein’s files on postgraduate and postdoctoral students and visiting researchers. These cover 1970 to 2002 and include many of the researchers from all over the world (especially from Argentina and the Spanish-speaking world) who spent time in Milstein’s group. It includes documentation of Georges Köhler’s research fellowship at the Laboratory.

Section C, Research, is the single largest component of the collection, in terms of size comprising over two thirds of the total. The section documents Milstein’s scientific research from the University of Buenos Aires in the mid 1950s, the Department of Biochemistry in Cambridge and during his brief return to Argentina in 1961-1962, to his career at the Medical Research Council Laboratory of Molecular Biology up to and well beyond official retirement. It thus spans some fifty years of research
C. Milstein

in enzymology and molecular biology, and much of the material covers not only the work of Milstein himself but his wider research group. The earlier period up to and including the 1960s is represented in the form of bound notebooks but the greater part of the material, dating 1970-2002, is the contents of MRC ringbinders kept as laboratory notebooks and thus styled. It is highly technical in nature, covering laboratory techniques for the study of antibody behaviour, diversification and the production of monoclonal antibodies, and the notebooks contain much experimental data. Very significant documentation was kept by his longstanding laboratory technician and research officer J.M. Jarvis but many other researchers and research themes are represented. The section includes documentation of the administration of research in the form of records of the distribution worldwide of cell line samples from Milstein’s laboratory and a little material relating to grant applications. There is also material relating to patents, including correspondence relating to the failure to patent monoclonal antibodies in the mid 1970s.

Section D, Lectures and publications, is divided into three subsections. The first presents drafts for some of Milstein’s public and invitation lectures from 1965. He was always in considerable demand as a distinguished molecular biologist but following the award of the Nobel Prize invitations to lecture increased. Prestigious lectures documented here include the Sir Frederick Gowland Hopkins Memorial Lecture 1986, the Croonian Lecture of the Royal Society 1989, the Edward K. Dunham Lectures at Harvard Medical School 1992 and the Third Georges Köhler Lecture at the Max Planck Institut für Immunobiologie 1999. The second component, drafts and publications, is patchy. While it does not provide comprehensive coverage of Milstein’s published output, it is of considerable interest because of the number of apparently unpublished drafts. The third subsection is photographic slides used for lecture illustration.

Section E, Societies and organisations, is not extensive. The material is mostly late in date, 1977-2002. Twenty UK, overseas and international bodies, including a number of Argentine establishments, are represented but there is significant material only for the Basel Institute of Immunology (Milstein was on the International Scientific Advisory Board), Celltech Ltd (member of the Science Council), the Fundación Juan March of Spain (assessing proposals sent to the Scientific Council of the Fundación) and the Royal Society.

Section F, Consultancies and commercial, is the smallest in the collection. It covers five commercial concerns with which Milstein was involved relating to the exploitation of antibody research. It includes Antisoma Ltd (which Milstein served as President of the Science Council 1990-1995), Cambridge Antibody Technology and Sera-Lab. There is also a little material relating to the Laboratory of Molecular Biology’s Industrial Liaison Committee.

Section G, Visits and conferences, documents Milstein’s overseas travel and attendance at meetings from 1965 up to his death. Milstein’s presence was much sought after, particularly as a Nobel laureate, and especially in South America. Most of the occasions documented are meetings held in
the UK and Western Europe, but Milstein’s contact with Argentina increased following the fall of the military government in 1983, with visits documented in spring 1984, March 1986, April and December 1987, March and August 1991, March 1992 and March 1994. He also made a number of visits to other Latin American countries and to Spain. He very often travelled with his wife Celia, who sometimes participated as a scientist in her own right.

Section H, Correspondence, dates chiefly from the mid-1970s up to 2002, with little documentation for earlier decades. The bulk comprises the contents of Milstein’s alphabetical sequence of ‘General’ correspondence files. Although there are few extended exchanges, significant correspondents include A. Cambrosio, A.C.G. Cuello, J.C. Howard, A. Karpas and A.J. McMichael, with a sequence of correspondence with various colleagues at the Argentine Fundacion Campomar 1991-2001. There is some further miscellaneous correspondence including letters exchanged with F. Sanger in the late 1950s and early 1960s, correspondence from colleagues and institutions in Argentina, letters relating to ascription of credit for monoclonal antibody W6/32, correspondence relating to the work of H. Bazin and references and recommendations.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Dr Celia Milstein and to Ms Annette Faux, Archivist of the Laboratory of Molecular Biology, for their help and encouragement.

Heather Bird
Timothy E. Powell
Bath 2006
C. Milstein

SECTION A  BIOGRAPHICAL, A.1-A.126  1952-2003


A.7-A.23  INTERVIEWS, ARTICLES AND TRIBUTES  1975-2002

A.24  BIBLIOGRAPHY

A.25-A.111  CAREER, HONOURS AND AWARDS

A.112-A.124  PERSONAL

A.125, A.126  MISCELLANEOUS

A.1-A.4  Obituaries, March  2002

A.1  *The Daily Telegraph*, 26 March 2002


A.5  Curricula vitae  ca 1999 and 2002

In Spanish, with covering letter, including draft manuscript notes and publications list; and in English.

A.6  Extracts from autobiographical notes or talk by Milstein on his life and work  N.d.

A.7-A.23  INTERVIEWS, ARTICLES AND TRIBUTES  1975-2002

3pp BBC copy script.

Includes details of Milstein and Köhler’s antibody production technique.

1975

A.8  ‘To whom does scientific knowledge belong?’, interview for UMSCHAU in Wissenschaft und Technik, Frankfurt, Germany, December 1980.

4pp typescript translation in English and 8pp typescript copy of ‘Thema der Woche: Monoklonale Antikörper’ [Theme of the Week: Monoclonal Antibodies], in German, both with Milstein’s manuscript corrections or comments; covering letter from UMSCHAU, March 1981.

Milstein notes on the English translation that the interview was ‘On occasion of Analytic prize around 1981’.

1980, 1981

A.9  ‘Where next for monoclonal antibodies?’, article by Stephanie Yanchinski, New Scientist, 9 April 1981

19pp typescript proofs, with Milstein’s manuscript corrections, and covering letter; 3pp copy of published article.

1981


Note and 1p typescript draft with Milstein’s manuscript corrections, December 1989.

1989


Correspondence and Milstein’s questionnaire replies, and biographical details.

These supplements were devoted to contemporary achievements and developments in British science.

1989-1990

A.12  Question and answer interview with Milstein on his life and career, by M. Novak, July 1991

The interview includes Milstein’s experience during a conference in Prague in 1968 when the Soviet Army invaded Czechoslovakia.

1991
A.13  Biographical questionnaire filled in by Milstein for Deike-Gedenktage, Kreuzlingen, Germany.  1991


Transcript and covering letter.

Milstein took part with G. Winter and others. He was interviewed by Hugh Prysor-Jones and Zareer Masani.  1993

A.15  Wellcome Trust History of Twentieth Century Medicine Group Witness Seminar, London, September 1993

Correspondence including 4pp Milstein’s manuscript notes.

Milstein was one of the Witnesses at the meeting. He also commented on the transcript of the meeting proceedings prior to publication.  1992-1995


Brief correspondence including original proposal, Milstein’s draft notes on his ‘wonders’, and previous scientists’ contributions.

It is unclear if Milstein took part.  1994

A.17  Clarín, telephone interview with Milstein by Jorge Halpern, 12 December 1994

Brief correspondence in English and Spanish.

Clarín was an Argentine newspaper.  1994

A.18  Interview by Laura Ayerza de Castilho, possibly for an Argentine magazine, March 1995

Brief correspondence in English and Spanish.

Includes Milstein’s comments on errors in the text.  1995

Correspondence.

The interview with Milstein was the seventh in the series of audiotaped interviews with Cambridge Nobel Laureates. Sir Aaron Klug and Max Perutz were interviewed on the same day as Milstein.

A.20 Interview by Camille Collett and Keith Haglund for an article for the *Journal of NIH Research*, July 1997

Published copy of the article.

A.21 Interview by Istvan Hargittai, Professor of Chemistry at Budapest Technical University, for an article for the *Chemical Intelligencer* (published by Springer-Verlag of New York, USA), October 1998.

Correspondence; 12pp typescript draft transcript with Milstein's manuscript corrections; 2pp copy of part of the published article of October 1999; and further biographical information.

A later request was made for further biographical information concerning Milstein's relationship with his father, May 2000, and for permission to use the 1998 interview in the book *Candid Science II: Conversations with Famous Biomedical Scientists*.


Brief correspondence.

The recording was scheduled to take place in April (see A.28), but Milstein died in March before he could participate.

A.23 ‘Cesar Milstein: paradigma de la diáspora científica Argentina’, article and interview by A.G. Kohn-Loncarica and Norma Isabel Sánchez, for *Todo es Historia* no. 425, ca March 2002

Copy of published article, in Spanish.

See also A.123.

A.24 BIBLIOGRAPHY ca 1963

A full list of Milstein's publications 1957-2002 is at D.130.

**A.25-A.110**  
**CAREER, HONOURS AND AWARDS**  
1952-2002

**A.25-A.29**  
Career  
1945-2002

**A.25A**  
Identity cards recording the fulfilment of course requirements at the University of Buenos Aires, 1945-9, and a press cutting about a prize awarded for his thesis, 1946.  
3 items in a file.  
In Spanish.  
1945-9

**A.25**  
Degree certificates  
1952, 1957, 1961

**A.26**  
Details of researchers working with Milstein on proteins in the University of Buenos Aires, and budget for research  
In Spanish, with accompanying notes.  
ca 1953-1963

**A.27**  
Contents of folder so inscribed. Copies of school certificates etc from Bahia Blanca, Argentina, 1927-1944, and University of Buenos Aires certificates; correspondence and papers in English and Spanish, including letters in English re Milstein’s applications for a British Council scholarship at Cambridge 1957.  
ca 1953-1963

**A.27A**  
Milsstein's terms of employment etc with the Medical Research Council  
Includes Milstein’s notes on 'Recent research activities and future plans', 1992.  
1968-2001

**A.28**  
Contents of folder inscribed ‘Cesar's Office Notice Board March 2002’  
2002
Correspondence, research and other notes, letters, humorous quotes, and miscellaneous papers. Includes photographs of Milstein’s private office and the noticeboard, with all contents in situ, before removal of same after his death, and confirmation that Milstein’s Desert Island Discs recording was scheduled for 26 April 2002 (see A.22).


A.30 Silver Jubilee Medal, July 1977 1977

A.31 CIBA Medal of the Biochemical Society 1978
Correspondence including notification of award and arrangements.
Milstein received the medal in Galway, Republic of Ireland, September 1978. He gave a lecture.

A.32 Wellcome Lectureship, April 1979 1979
Letter re nomination only.
See A.36.

A.33 Election to Honorary Membership of the American Association of Immunologists, April 1979 1979
Brief correspondence and 2pp list of Honorary Members.

A.34 Avery-Landsteiner Prize of the Society for Immunology, October 1979 1979
Notification letter and 6pp manuscript draft lecture notes and speech of thanks.

A.35 Adolph Rosenburg Foundation Award of the University of Miami School of Medicine, Florida, USA, April 1980 1980-1983
Correspondence including arrangements.
Milstein was to be the first recipient of this Award, and gave a lecture at the presentation banquet. His travel arrangements included flying by Concorde.


Correspondence and 12pp typescript draft lecture notes with manuscript corrections, 1p references, 2pp figures, and 1p abstract (for the Wellcome Lecture found therewith).

This was jointly awarded to Milstein and L.W. Wannamaker.

A.37 Wolf Prize for Medicine of the Wolf Foundation, Tel Aviv, Israel, September 1980

Correspondence including congratulations and arrangements.

The Prize for 1980 was jointly awarded to Milstein, L. Sachs and J. Gowans.

A.38 Louisa Gross Horwitz Prize of the Trustees of Columbia University, New York, USA, September 1980

Correspondence re arrangements, including correspondence with N.J. Cowan at Princeton University.

Milstein gave the Carter-Wallace lecture series at Princeton University during his trip to receive the Prize.


Correspondence, including some in Italian re arrangements and collection of the prize.

The prize was jointly awarded to Milstein and K. Fuxe.

Milstein was unable to attend the ceremony due to illness, and the prize was accepted on his behalf by R. Paoletti of Milan University.

A.40 Fellowship of Darwin College Cambridge, 1981

Notification and Milstein’s letter of acceptance.
A.41  William Bate Hardy Prize of the Cambridge Philosophical Society, January 1981

Brief correspondence.

A.42  Election to Foreign Associateship of the US National Academy of Sciences, Washington DC, USA, April 1981

Correspondence including letters of congratulation.

A.43  Sloan Prize of the General Motors Cancer Research Foundation, New York, USA, June 1981

Correspondence including letters of congratulation (including from the President of the USA, Ronald Reagan); portrait photograph titled ‘1981 Sloan Prize’; 7pp manuscript draft lecture notes and speech of thanks.

The Prize was awarded on 16 June 1981 at the White House, Washington D.C.

A.44  Gairdner Foundation International Award of the Gairdner Foundation, Ontario, Canada, October 1981

Correspondence, itinerary, commemorative booklet, 8pp typescript draft lecture notes with manuscript corrections, 1p abstract, 5p figures and 1p references.

This was jointly awarded to Milstein and G. Köhler.

Milstein received the Award in Toronto.

A.45  Karl Landsteiner Memorial Award of the American Association of Blood Banks, Arlington, Virginia, USA, November 1982

Correspondence, press release.

This was jointly awarded to Milstein and G. Köhler. Köhler accepted the Award on their behalf.

A.46  David Pressman Memorial Award of the Roswell Park Memorial Institute, Buffalo, New York, USA, February 1982

Notification letter and Milstein’s acceptance.
Milstein and G. Köhler were the first recipients of this Award, presented on behalf of friends of David Pressman, Director of the Department of Immunology Research at the Institute 1954-1980.

A.47 Biochemical Analysis Award of the German Society for Clinical Chemistry, April 1982
Correspondence in English, and list of plenary speakers in German.
This was awarded jointly to Milstein and G. Köhler. It was presented at the European Conference on Biochemical and Instrumental Analysis, Munich, Germany, at which Milstein gave a lecture.

A.48 Election to Honorary Fellowship of Fitzwilliam College Cambridge, July 1982
Correspondence including copy of College Statute concerning the Fellowship.

A.49 Franklin Medal of the Franklin Institute, Philadelphia, Pennsylvania, USA, November 1982
Correspondence, 1982-1983.
Milstein was unable to attend the award banquet due to a prior engagement and the Medal was accepted on his behalf by his friend R. Perry of the Institute for Cancer Research, Philadelphia.

A.50 Royal Medal of the Royal Society, London, November 1982
Letters of congratulations.

A.51 Honorary Membership of the Deutsche Akademie der Naturforscher Leopoldina, Halle, Germany, December 1982
Brief correspondence, in English and German, re Milstein's biographical entry as a new Academy member.

A.52 Clinical Ligand Assay Society Award for Investigative Research, Philadelphia, Pennsylvania, USA, March 1983
Correspondence.
This was jointly awarded to Milstein and G. Köhler. Köhler gave the Mallickrodt Lecture on his and Milstein's behalf.
A.53 Philip Levine Award of the American Society of Clinical Pathologists, Chicago, Illinois, USA, April 1983
Correspondence including with Köhler.
This was jointly awarded to Milstein and G. Köhler. Milstein was unable to attend the Award ceremony due to prior commitments.

A.54 Proposed Honorary Doctorate of the Weizmann Institute of Science, Israel, April 1983
Correspondence.
Due to Milstein’s unavailability due to prior commitments on the proposed conferrment dates in 1983 and again in 1984, Milstein finally suggested that it might be best ‘to reconsider the idea at a later stage’.

A.55 Election to Foreign Honorary Membership of the American Academy of Arts and Sciences, Cambridge, Massachusetts, USA, May 1983
Brief correspondence.

A.56 Honorary Doctorate of Yale University, USA, May 1983
Brief correspondence.
Milstein was obliged to decline the honour as he was unable to meet the personal attendance requirement due to a previous commitment.

A.57 Election to Honorary Fellowship of the Royal College of Physicians, London, June 1983
Brief correspondence.

A.58 Commonwealth Award in Science of the Commonwealth Wealth Trust of Wilmington, Delaware, USA, November 1983
Correspondence and papers.
The Award was presented in England at a lunch at the Royal College of Physicians in London.
A.59 Associate Founding Fellow of the Third World Academy of Sciences, Trieste, Italy, November 1983 1983

Notification telex (part missing) and Milstein's draft reply.

Milstein accepted the invitation but regretted he was unable to attend the inaugural meeting at Trieste.

A.60 Carlos J. Finlay Memorial Prize, November 1983 1983-1984

Correspondence; copy of proposed UNESCO Features article; 13pp typescript draft lecture notes with Milstein’s manuscript corrections; etc.

Milstein was awarded the Prize at UNESCO Headquarters, Paris, France, and gave a lecture.

A.61 Appointment as Académico Correspondiente Extranjero of the Real Academia de Ciencias Exactas, Físicas Y Naturales, Madrid, Spain, March 1984 1984

Notification in Spanish and Milstein’s reply in English.

Milstein hoped to meet the President of the Academy, and when discussing a possible time for his visit, Milstein refers to his own ‘Jimenez Diaz lecture’ to be given on 18 May 1984. For Milstein’s notes for this lecture see D.28.


Correspondence; 19pp typescript lecture notes.

Milstein gave the Dale Lecture and was presented with the Medal at the 3rd Joint Meeting of the British Endocrine Societies, University of Edinburgh.

A.63, A.64 Lasker and Scott Awards 1984-1985

Milstein and G. Köhler were committed to visiting the USA for the presentation of their joint Albert Lasker Award, and Milstein suggested the award to them of their joint John Scott Award be scheduled at the same time.

A.63 Albert Lasker Basic Medical Research Award of the Albert and Mary Lasker Foundation, New York, USA, November 1984 1984-1985

Correspondence including arrangements; 2pp draft manuscript notes; 2pp typescript draft acceptance speech
This was jointly awarded to Milstein, G. Köhler and M. Potter.

A.64  
John Scott Award of the Board of Directors of City Trusts, City of Philadelphia, Pennsylvania, USA, November 1984  
Correspondence including arrangements.  
This was jointly awarded to Milstein and G. Köhler.

A.65-A.78  
Nobel Prize for Physiology or Medicine, December 1984  
The Nobel prize for 1984 had three recipients. Milstein and Georges Köhler were awarded the Prize for the discovery of ‘the principle for production of monoclonal antibodies’, and N.K. Jerne for theories concerning ‘the specificity in development and control of the immune system’. The awards to Milstein and Köhler were the seventh and eighth Nobel Prizes awarded for work undertaken in the Laboratory of Molecular Biology at Cambridge.

Milstein was accompanied to Stockholm, Sweden for the ceremonies by his wife Celia and other family members.

A.65  
Notification of award, October 1984

A.66-A.69  
Letters of congratulation  
Contents of Milstein’s bulky folders, arranged alphabetically.  
Not indexed.

A.66  
A-H

A.67  
I-K

A.68  
L-N

A.69  
O-Z
<table>
<thead>
<tr>
<th>Folder</th>
<th>Description</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.70</td>
<td>‘Latest Congrats’ Contents of bulky folder so inscribed. Includes standard letters of reply and list of recipients.</td>
<td>1984-1985</td>
</tr>
<tr>
<td>A.70A</td>
<td>Miscellaneous letters of congratulation</td>
<td>1984-1985</td>
</tr>
<tr>
<td>A.71</td>
<td>Correspondence re travel arrangements including family guests</td>
<td>1984</td>
</tr>
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<td></td>
<td>Includes invitations connected with the award during Milstein’s time in Sweden, itinerary, procedural notes, etc.</td>
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<td></td>
<td>Family guests comprised: Celia Milstein, Lazaro Milstein (father), Ernesto and Noemi, Oscar and Sara Milstein (brothers, and sisters-in-law), and Gustavo and Silvina Milstein (nephew and niece-in-law).</td>
<td></td>
</tr>
<tr>
<td>A.72</td>
<td>Correspondence and papers chiefly re arrangements for Nobel prize ceremony</td>
<td>1984</td>
</tr>
<tr>
<td>A.73, A.74</td>
<td>Nobel Lecture, ‘From the structure of antibodies to the diversification of the immune response’</td>
<td>1984</td>
</tr>
<tr>
<td>A.73</td>
<td>21pp typescript ‘Original version’ with references, figures, tables and legends; typescript ‘Notes for Nobel lecture’.</td>
<td></td>
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<tr>
<td>A.74</td>
<td>Uncorrected proofs; correspondence.</td>
<td></td>
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<tr>
<td>A.75</td>
<td>Correspondence and papers re press coverage and publicity following the Nobel Prize announcement</td>
<td>1984-1985</td>
</tr>
<tr>
<td>A.76</td>
<td>‘Resulting Correspondence’ Contents of folder so inscribed: correspondence and papers re publications, articles and other matters arising from Milstein’s Nobel lecture and award.</td>
<td>1984-2001</td>
</tr>
<tr>
<td>A.77</td>
<td>Dinner in honour of Milstein, Darwin College, Cambridge, 5 February 1985 Correspondence re arrangements.</td>
<td>1985</td>
</tr>
</tbody>
</table>
A.78  Brief correspondence re loan of Nobel videotape cassette  1986

A.79  Honorary Membership of the Asociación Argentina de Alergia e Inmunologia, Buenos Aires, March 1985  1985

Notification in Spanish and Milstein’s reply in English.


Correspondence including list of previous Medal winners.

A.81  Honorary Membership of the Socieded de Medicina Interna de Bahia Blanca, Bahia Blanca, Argentina, October 1985  1985

Correspondence, mostly in Spanish.

A.82  Honorary Membership of the Academia Nacional de Medicina de Buenos Aires, Argentina, April 1986  1986

Brief correspondence, in English and Spanish.


Correspondence.

A.84  Honorary Fellowship of the Royal College of Pathologists, London, May 1987  1986

Notification and Milstein’s acceptance.


Milstein appears to have been officially welcomed to Membership during his visit documented in G.32.
| A.86 | Honorary Membership of the Asociacion Medica de Bahia Blanca, Argentina, July 1987 | 1987 |
|      | Brief correspondence. |

| A.87 | Copy correspondence re nomination of Milstein to Honorary Membership of the American Tissue Culture Association, July 1989 | 1989 |
|      | Milstein was elected to Honorary Membership in 1991. See A.94. |

|      | Correspondence including congratulations. |

|      | Correspondence. |

| A.90 | National Biotechnology Ventures Award, San Francisco, California, USA, November 1990 | 1990-1991 |
|      | Correspondence; 2pp typescript draft notes for the address; 4pp typescript draft notes with manuscript corrections. |

|      | Milstein was the first non-US recipient of this Award. He was unable to attend in person but one of his former research students in the area, Alexander Duncan, agreed to give Milstein’s acceptance speech. The Award was presented to Milstein personally in London in January 1991. |

| A.91 | Honorary Membership of the Sociedad Cientifica Argentina, Buenos Aires, Argentina, April 1990 | 1990 |
|      | Brief correspondence. |

Correspondence, in Spanish.


A.93 Nomination of Milstein for the 1990 Kyoto Prize of the Iwamori Foundation, Japan 1989
Correspondence.
Includes Milstein’s typescript ‘Main Points of my Research in Immunology’.

Correspondence.
See also A.87.

Correspondence including congratulations.
Milstein was also subsequently elected to Honorary Membership of the Section of Pathology of the Society, June 1994.

A.96 Honorary Membership of the Asociación Química Argentina, Buenos Aires, Argentina, on the occasion of the 80th Anniversary of its foundation, December 1992 1992
Notification in Spanish and Milstein’s reply in English.

A.97 Diamond Konex Award of Science and Technology of the Fundación Konex, Buenos Aires, Argentina, November 1993 1991-1993
Correspondence, mostly in Spanish.

Letters of congratulations.
This honour was awarded to Milstein in the 1995 New Year Honours List.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.99</td>
<td>Honorary Professorship of the University of Buenos Aires, Argentina, ca April 1995</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td>Letter of congratulations, in Spanish.</td>
<td></td>
</tr>
<tr>
<td>A.100</td>
<td>Election to Emeritus Fellowship of Darwin College, Cambridge, May 1995</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td>Notification.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This election followed Milstein’s retirement from the Praelectorship.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Correspondence and papers, mostly in Spanish.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Milstein nominated his sister-in-law, Sara de Milstein, to receive the honour on his behalf.</td>
<td></td>
</tr>
<tr>
<td>A.102</td>
<td>Honorary Membership of the Asociación Becarios Argentino-Británica, July 1996</td>
<td>1996</td>
</tr>
<tr>
<td></td>
<td>Correspondence, incoming in Spanish.</td>
<td></td>
</tr>
<tr>
<td>A.103</td>
<td>Honorary Doctorate of the University of Vigo, Spain, May 1999</td>
<td>1999</td>
</tr>
<tr>
<td></td>
<td>Correspondence and 8pp typescript draft speech of thanks and reflections, in Spanish.</td>
<td></td>
</tr>
<tr>
<td>A.104</td>
<td>Honorary Doctorate of the University of Cambridge, June 1999</td>
<td>1998-1999</td>
</tr>
<tr>
<td></td>
<td>Correspondence including nomination, arrangements, and congratulations.</td>
<td></td>
</tr>
<tr>
<td>A.105</td>
<td>Honorary Fellowship of the Academy of Medical Sciences, London, November 2000</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td>Correspondence.</td>
<td></td>
</tr>
<tr>
<td>A.106</td>
<td>Honorary Fellowship of Darwin College, Cambridge,</td>
<td>2002</td>
</tr>
</tbody>
</table>
January 2002

Notification.

A.107, A.108 Contents of Milstein’s bulky folders: correspondence re honours and awards, visits and miscellaneous requests declined by Milstein ca 1982-2002

A.107 ‘No’s. Prizes/awarded and misc’ ca 1982-2002

Contents of folder so inscribed.


Contents of folder so inscribed.

A.109 ‘Autograph Requests’ 1984-1996

Contents of folder so inscribed.

A.110, A.111 ‘Miscellaneous Requests’ 1989-1996

Contents of folder so inscribed.

A.111 1992-1996


A.112 Condolences upon the death of his father, Lazero Milstein 1991

In Spanish.

A.113 Humour N.d.

‘The Hybridoma Chorus’ from ‘The Moussiah’ ‘By Bill (fly off the Handel) Muller’.

The Story of Cesar and the Flame - mock-children's nursery rhyme re Milstein’s desire for a working bunsen burner.

‘A Ballade of Two Caesars’.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A.114</td>
<td>1978-1979</td>
<td></td>
</tr>
<tr>
<td>A.115</td>
<td>1982-1996</td>
<td>Bundle of personal correspondence found together.</td>
</tr>
<tr>
<td>A.116</td>
<td>‘Appeals for support’</td>
<td>1982-2001</td>
</tr>
<tr>
<td></td>
<td>Contents of folder so inscribed.</td>
<td></td>
</tr>
<tr>
<td>A.117</td>
<td>1982-1985</td>
<td></td>
</tr>
<tr>
<td>A.118</td>
<td>1987-1989</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contents of folder so inscribed.</td>
<td></td>
</tr>
<tr>
<td>A.120</td>
<td>1991-2001</td>
<td>Correspondence re health matters.</td>
</tr>
<tr>
<td>A.121</td>
<td>1992-1994</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Includes Milstein’s letter apologising for missing the Commemoration dinner at Fitzwilliam College, Cambridge, giving details of his illness while ‘shooting [river] rapids’ in Chile, January 1993.</td>
<td></td>
</tr>
<tr>
<td>A.122</td>
<td>1995-2001</td>
<td>Bundle of personal correspondence found together, some in Spanish.</td>
</tr>
<tr>
<td>A.123</td>
<td>1996-2003</td>
<td></td>
</tr>
</tbody>
</table>
Includes posthumous letter from Celia Milstein to A.G. Kohn-Loncarica, Instituto de Historia de la Medicina, Argentina (see also A.23).

A.124 Miscellaneous letters

Mostly in Spanish.

Includes Milstein’s notes (in English) on his research collaboration with G. Köhler.

A.125, A.126 MISCELLANEOUS

A.125 Milstein’s Club Méditerranée scuba-diving certification card

Gives confirmation of medical fitness to dive, and open water dive log, in French, covering dives in Mexico, Australia, Barbados, etc.

A.126 Formal photograph of a group of diners, possibly at Darwin or Fitzwilliam College, including Milstein, second row from top, fourth from the right

1965-1991

1965-1986, n.d.

1965-1986

N.d.
<table>
<thead>
<tr>
<th>B.1-B.9</th>
<th>OFFICE APPOINTMENT DIARIES</th>
<th>1993-2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.1</td>
<td>1993-1994</td>
<td></td>
</tr>
<tr>
<td>B.2</td>
<td>1994-1995</td>
<td></td>
</tr>
<tr>
<td>B.3</td>
<td>1995-1996</td>
<td></td>
</tr>
<tr>
<td>B.4</td>
<td>1996-1997</td>
<td></td>
</tr>
<tr>
<td>B.5</td>
<td>1997-1998</td>
<td></td>
</tr>
<tr>
<td>B.6</td>
<td>1998-1999</td>
<td></td>
</tr>
<tr>
<td>B.7</td>
<td>1999-2000</td>
<td></td>
</tr>
<tr>
<td>B.8</td>
<td>2000-2001</td>
<td></td>
</tr>
<tr>
<td>B.9</td>
<td>2001-2002</td>
<td></td>
</tr>
<tr>
<td>B.10-B.84</td>
<td>RESEARCH STUDENTS AND VISITORS</td>
<td>1970-2001</td>
</tr>
</tbody>
</table>
These are Milstein’s files on researchers at and visitors to the Laboratory arranged alphabetically by surname.

The great bulk of the contents relate to arrangements to come to the Laboratory for research or visit, research supervision and correspondence about their subsequent career. Much of the material is subject to restricted access.

B.10  Adetugbo, K.  1972-1978
Adetugbo was a Nigerian Ph.D. student 1972-1975 and a member of staff 1975-1976.

CLOSED UNTIL 2054

B.11  Algranati, I.D.  1977-1993
Professor Algranati was a visiting researcher from Argentina 1977.

CLOSED UNTIL 2069

B.12  Aoufouchi, S.  1998
Aoufouchi was a visiting researcher 1998.

CLOSED UNTIL 2074

B.13  Argon, Y.  1978-1996
Argon was an American researcher supported by a Leukemia Society of America Fellowship 1979-1981 and an MDA Fellowship 1982-1983.

CLOSED UNTIL 2072

B.14  Barbera Guillem, E.  1983-1993
Professor Barbera Guillem was a visiting researcher from Spain 1983.

CLOSED UNTIL 2069

Barker was a short-term research student.

CLOSED UNTIL 2067

B.16  Berek, C.  1982-1996
Berek was a visiting researcher from Switzerland 1982-1985.

CLOSED UNTIL 2072

B.17 Bilsland, C.A.G. 1986-1993
Bilsland was a Ph.D. student 1986-1990.

CLOSED UNTIL 2069

Bradbury was a Ph.D. student 1984-1987 and postdoctoral researcher 1987-1989.

CLOSED UNTIL 2072

B.19 Brecher, A. 1990-1992
Brecher was an American visiting researcher 1991.

CLOSED UNTIL 2068

Burrone was a visiting researcher from the Fundacion Campomar, Argentina 1979-1983.

CLOSED UNTIL 2066

B.21 Calabi, F. 1980-1996
Calabi was a visiting researcher from Italy supported by a UICC Fellowship 1981-1982, an EMBO Fellowship 1982-1983 and a Leukemia Society of America Fellowship to 1985.

CLOSED UNTIL 2072

Chen was an American visiting researcher 1975-1976.

CLOSED UNTIL 2063

B.23 Chui, Y.L. 1988-1996
Chui was a visiting researcher supported by a Croucher Foundation Fellowship ca 1987-1989.

CLOSED UNTIL 2072

Clark was a Ph.D. student 1978-1982.

CLOSED UNTIL 2068

B.25, B.26

Cotton, R.G.H.

Cotton was an Australian postdoctoral researcher 1971-1973.

B.25

1970-1980

CLOSED UNTIL 2069

B.26

1982-1993

CLOSED UNTIL 2069

B.27

Cowan, N.J.

Cowan joined Milstein’s research group as a postdoctoral researcher 1970. He remained until 1975.

CLOSED UNTIL 2066

B.28

Dreher, M.L.

Dreher was a Ph.D. student 1989-1992.

CLOSED UNTIL 2068

B.29

Dunnick, W.A.

Dunnick was an American visiting postdoctoral researcher 1977-1980.

CLOSED UNTIL 2070

B.30

Erusalimsky, J.D.

Erusalimsky was an Israeli visiting postdoctoral researcher 1985-1987.

CLOSED UNTIL 2067

B.31

Espada, F.D. de

Espada was a visiting researcher from Spain supported by an EMBO Fellowship 1980-1982.

CLOSED UNTIL 2062

B.32

Even, J.

1988-1991
Even was a visiting researcher 1982-ca 1985.

CLOSED UNTIL 2067

B.33 Fainboim, L. 1990-2001

Work on CD1.

Fainboim was an Argentine colleague. It is not clear whether he was a researcher in Milstein's group.

CLOSED UNTIL 2077

B.34 Faure, F. 1990-1991

Faure was a visiting researcher from France 1990-1991.

CLOSED UNTIL 2067


Fernandez was a visiting researcher from Spain 1989-1995, supported by a Spanish grant and then a European Commission Fellowship.

CLOSED UNTIL 2073

B.36 Fernandez, C. 1990-1992

Fernandez was a short-term visiting researcher from the Swedish Cancer Foundation 1990.

CLOSED UNTIL 2068

B.37 Fischer, G.F. 1990-1992

Fischer was a visiting researcher from Austria supported by an Erwin Schrödinger grant 1991-1993.

CLOSED UNTIL 2068

B.38 Frangione, B. 1982

Frangione was intending to visit Milstein in 1982.

CLOSED UNTIL 2058

B.39 Galfré, G. 1978

Galfré was a researcher supported by a Wellcome Research Fellowship 1976-1979 and then on the staff 1979-1982.

CLOSED UNTIL 2054
<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Years</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.40</td>
<td>Galfré, P.D.</td>
<td>1980-1989</td>
<td>Galfre was a researcher supported by Glaxo, 1981-1982. CLOSED UNTIL 2065</td>
</tr>
<tr>
<td>B.41</td>
<td>Gherardi, E.</td>
<td>1988-1997</td>
<td>Gherardi was a researcher supported by an MRC training fellowship 1988-1991. CLOSED UNTIL 2073</td>
</tr>
<tr>
<td>B.42</td>
<td>Goyenecha, B.</td>
<td>1999</td>
<td>Goyenecha was a Cuban visiting researcher who went on to study for a Ph.D. in the 1990s. CLOSED UNTIL 2075</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1983-1987</td>
<td>CLOSED UNTIL 2077</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1992-2001</td>
<td>CLOSED UNTIL 2077</td>
</tr>
<tr>
<td>B.46</td>
<td>Hamlyn, P.H.</td>
<td>1974-1984</td>
<td>Hamlyn was a postdoctoral researcher 1975-1980.                       CLOSED UNTIL 2060</td>
</tr>
</tbody>
</table>
Research, C.1-C.340

Howe was a laboratory technician 1972-1977.
CLOSED UNTIL 2067

B.49  Imai, K.  1983-1985
Imai was a short-term research visitor from Japan 1985.
CLOSED UNTIL 2061

B.50  Isamat, M.  1987-1994
Isamat was a Ph.D. student supported by a British Heart Foundation grant, 1987-1992.
CLOSED UNTIL 2070

B.51  Kaartinen, M.  1977-1985
Kaartinen was a Finnish visiting researcher supported by an EMBO Fellowship 1979-1981.
CLOSED UNTIL 2061

B.52  Kefford, R.F.  1982-1995
Kefford was an Australian visiting researcher supported by a Florey Fellowship 1983-1985.
CLOSED UNTIL 2071

Köhler was a visiting researcher from Switzerland supported by an EMBO Fellowship 1974-1976. He was a joint recipient of the Nobel Prize with Milstein for work on monoclonal antibodies.
CLOSED UNTIL 2071

B.54  Lefebvre, F.-L.  1982-1987
Lefebvre was a postdoctoral researcher 1984-1986.
CLOSED UNTIL 2063

B.55  Leong, M.  1980-1985
Leong was a Canadian visiting researcher supported by an Alberta Heritage Award 1981-1985.
CLOSED UNTIL 2061

B.56  Lew, V.L.  2001
Research, C.1-C.340

Lew was a research collaborator.
CLOSED UNTIL 2077

B.57, B.58  
Lozano, F.  
1989-1995
Lozano was a postdoctoral researcher supported by the Celltech Research Fellowship 1991-1994.

B.57  
1989-1992
CLOSED UNTIL 2071

B.58  
1993-1995
CLOSED UNTIL 2071

B.59  
Maertzdorf, B.P.G.  
1992-1994
Maertzdorf was a Dutch short-term visiting researcher 1993-1994.
CLOSED UNTIL 2070

B.60  
Mariuzza, R.  
1984-1987
Mariuzza was an American visiting researcher supported by an EMBO Fellowship 1986-1987.
CLOSED UNTIL 2063

B.61  
Martin, L.H.  
1982
Martin was a Canadian visiting researcher 1984-1987. For the year 1986-1987 he was supported by a Wellcome Trust grant.
CLOSED UNTIL 2058

B.62  
Migone, N.  
1985-1986
Migone was a visiting researcher from Italy 1985-1986.
CLOSED UNTIL 2062

B.63  
Nakashima, I.  
1982
Nakashima was a short-term visiting researcher from Peru 1982.
CLOSED UNTIL 2058

B.64  
Neri, T.-M.  
1986
Research, C.1-C.340

Neri was a short-term visiting researcher from Italy 1986.
CLOSED UNTIL 2062

Pink was a Ph.D. student of Milstein, completing his thesis in 1968.
CLOSED UNTIL 2056

Querinjean was a postdoctoral research Fellow in 1970-1971.
CLOSED UNTIL 2066

B.67 Rada, C. 1997
Rada was Milstein’s penultimate Ph.D. student, postdoctoral researcher and subsequently taken on to the staff.
CLOSED UNTIL 2073

B.68 Ramon, A.M. 1982-1983
Ramon was a short-term visiting researcher from Spain 1984.
CLOSED UNTIL 2059

Rocca-Serra was a short-term visiting researcher from France supported by an EMBO grant 1981-1982.
CLOSED UNTIL 2063

B.70 Salamone, M. del C. 1992
Salamone was a short-term visiting researcher from Argentina 1992.
CLOSED UNTIL 2068

B.71 Sharpe, M.J. 1985-1990
Sharpe was a postdoctoral researcher 1985-1991, supported during some of this period by the E.P.A. Cephalosporin Fund.
CLOSED UNTIL 2066
Sitia, R. 1985-1999
Sitia was a researcher supported by an EMBO Fellowship 1986-1987.
CLOSED UNTIL 2075

Softley, K.T. 1984-1988
Softley was a postdoctoral researcher supported by a Beit Memorial Fellowship 1986-1987.
CLOSED UNTIL 2064

Suresh was a visiting researcher 1984-1985.
CLOSED UNTIL 2074

Svasti, J. 1981
Folder annotated ‘Pruned’.
Svasti was a Ph.D. student of Milstein, completing his thesis in 1972.
CLOSED UNTIL 2057

Trucco, M. 1990-1991
Trucco was a visiting researcher from Italy 1977.
CLOSED UNTIL 2067

Varsani was a postdoctoral researcher 1989-1990.
CLOSED UNTIL 2070

Wilde, C.D. 1976-1985
Wilde was a Ph.D. student 1975-1979.
CLOSED UNTIL 2061

Wong, J.K. 1992-1993
Wong was a student who spent the summer vacation of 1992 as a member of the research support staff.
CLOSED UNTIL 2069

Woolfson, A. 1990-1998
Woolfson was a Ph.D. student supported by an MRC 1990-1993. He returned to work with Milstein 1996-1998.

B.80 1990-1993
CLOSED UNTIL 2074

B.81 1994-1998
CLOSED UNTIL 2074

Yung was a visiting researcher in the late 1980s.
CLOSED UNTIL 2071

Ziegler was a German colleague. It is not clear whether he was a researcher in Milstein's group.
CLOSED UNTIL 2070

B.84 Miscellaneous requests to come to work with Milstein 1993-1994
CLOSED UNTIL 2070
This section documents Milstein’s scientific research from the early 1950s at the University of Buenos Aires, Argentina, the Department of Biochemistry in Cambridge and his brief return to Argentina in 1961-1962, to his career at the Medical Research Council Laboratory of Molecular Biology, Cambridge up and well beyond official retirement. It spans some fifty years of research in enzymology and molecular biology.

The material mostly comprises bound notebooks and, generally later in date, the contents of MRC ringbinders kept as laboratory notebooks and so styled. A very high proportion of the material is in the hands of Milstein’s researchers and collaborators, especially J.M. Jarvis, Milstein’s laboratory technician/research officer from the mid-1960s, and S.C. Howe, technician 1972-1977.

There is documentation of administration of research in the form of records of the distribution worldwide of cell line samples from Milstein’s laboratory and a little material relating to grant applications. There is also material relating to patents, including correspondence relating to the failure to patent monoclonal antibodies in the mid 1970s.

C.1 Ph.D. THESIS

C.2-C.279 RESEARCH NOTEBOOKS AND BINDERS

C.280-C.323 ADMINISTRATION OF RESEARCH

C.324-C.340 PATENTS

C.1 Ph.D. THESIS 1957


93pp copy typescript in Spanish including figures, tables and references, and faded paper cover, originally bound
Research, C.1-C.340

with metal screws.

<table>
<thead>
<tr>
<th>C.2-C.279</th>
<th>RESEARCH NOTEBOOKS AND BINDERS</th>
<th>ca 1952-2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.2-C.58</td>
<td>Bound notebooks</td>
<td></td>
</tr>
<tr>
<td>C.59-C.206</td>
<td>Research binders</td>
<td></td>
</tr>
<tr>
<td>C.207-C.279</td>
<td>Research binders: J.M. Jarvis</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C.2-C.58</th>
<th>Bound notebooks</th>
<th>ca 1952-2002</th>
</tr>
</thead>
</table>

The notebooks chiefly cover experimental work on mice and rats. The bulk date from the 1950s and 1960s - later work being mainly recorded in ringbinders - although Milstein continued to use this format up to his death. C.2-C.28 are predominantly in Milstein's own hand, those from C.29-C.58 are in a variety of hands, including those of J.M. Jarvis and S.C. Howe his laboratory technicians.

The contents are mostly tables of experimental results, with diagrams, calculations, etc. Many include intercalated pages of notes, graphs and photographic data intercalated or pasted onto the notebook pages. Some have an index of experiments.

Most of the notebooks bore one or more inscriptions on the cover or spine. These are reproduced in the catalogue entries.

<table>
<thead>
<tr>
<th>C.2-C.11</th>
<th>Series of notebooks numbered 1-10 by Milstein, with many of the experiments numbered and dated, and continuing in sequence throughout the notebooks.</th>
<th>ca 1952-ca 1959</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Numbers 1-7 (C.2-C.8) are mostly in Spanish, primarily from Milstein's time in Argentina prior to and after obtaining his doctorate in 1957 inscribed 'C. Milstein. Quimica Biología. Cátedra Prof. A.O.M. Stoppani, Facultad de Ciencias Medicas' (or variations thereof). Numbers 8-10 (C.9-C.11) are marked as being used by Milstein at the Cambridge Department of Biochemistry.</td>
<td></td>
</tr>
</tbody>
</table>

| C.2      | ‘1’. Spiral bound softback notebook | ca 1952-1955 |
Note found inside giving approximate date for notebook as ‘1952?’ but a set of handwritten tables dated 1955 is included. Used from the front and from the back 1 September-[?following year] 23 May.

C.3  
‘2’. Spiral bound softback notebook 1950s
Includes experiments 1-34. Commencing 3 June [year unknown].

C.4  
‘3’. Spiral bound softback notebook 1950s
Includes experiments [35]-75.

C.5  
‘4’. Spiral bound softback notebook 1957
Includes experiments 76-113 ca 19 July-ca 19 December.

C.6  
‘5’. Softback bound notebook 1958-1959
‘Experimentos con la enzima de Racker y Malico Destt. Experimentos numerodos a partir de 1’.
Various numbered series of experiments including ‘Cromatografia’. Used from the front and from the back ca 9 January 1958-25 June [1959].

C.7  
‘6’. Softback bound notebook 1958
‘Experimentos con la enzima de Black’.
Including experiment nos. 114-150. Commencing ca. 5 May.

C.8  
‘7’. Spiral bound softback notebook 1958
‘Enzima de Black. 1958’.

C.9  
‘8’. Hardback bound notebook 1958-1959
Research, C.1-C.340

Used from the front and from the back 8 October 1958-17 May [1959]. Including experiment nos. 1-76.
Paginated 1-125.

C.10  ‘9’. Hardback bound notebook 1959
Used from the front and from the back ca 25 May-20 July. Including experiments 77-106.
Paginated 1-125, not all pages used.

C.11  ‘10’. Hardback bound notebook ca 1958-1959
Used from the front and from the back ca 17 September-[?following year] 20 February.
Paginated 1-87, not all pages used.

C.12  Spiral bound softback notebook ca 1955
In Spanish.

C.13  Spiral bound softback notebook ca 1958
Used from the front and from the back.

C.14  Bound hardback pocket notebook ca 1960
Used from the front and from the back. Notes from the back are in Spanish. Paginated 1-20 with index.

C.15  Spiral bound softback notebook inscribed ‘Cesar Milstein. Manuela Pedraza 2968, Facultad de Medicina, Dr. A.O.M.Stoppani’ ca 1962
Used from the front and from the back. Paginated part 1-42.

C.16-C.19  Series of notebooks numbered 1-4 1963-1972

C.16  ‘1’. Spiral bound softback notebook 1963
Research, C.1-C.340

Including experiment nos. 1-6, iodination, and Human B chain. Used from front and from the back 18 July-1 September 1963.


Including experiment no.7. Used from front and from the back 28 October 1963-ca 4 August 1965.

Paginated 1-71 but work continues on unpaginated pages.

C.18  ‘& 3. x II. Kerr’. Hardback bound notebook

Used 15 November [1964]-ca 5 July 1965. Paginated 1-75 with one further page used.

C.19  ‘& 4. Includes M[?ass]. S[?pec.]’. Hardback bound notebook

Used from front and from the back ca 23 June 1970-ca 28 April 1972. Subject dividers.

Paginated 1-71 but work continues on unpaginated pages.

C.20  ‘C.M.’ Hardback bound notebook


C.21  ‘Useless Ideas’. Spiral bound softback notebook.

Used from the back and from the front ca June 1982-3 March 1989.

C.22  ‘C.M.’ Hardback bound notebook


Intercalated was a smaller notebook (retained as found), used for Milstein’s notes on operating the computer programmes he was using.
Research, C.1-C.340

C.23
‘Cesar Milstein Ideas’. Spiral bound softback reporter’s notebook
Used from the back and from the front.
Milstein’s handwritten note on inside back cover has ‘The last undated entry to this pad must be well before end of 1990; I found this book at bottom of pile while cleaning desk on the 27/Feb 1990’.
Intercalated was a smaller coverless softback notebook (retained as found) itself used from the front and from the back.

C.24
Spiral bound softback notebook
Includes miscellaneous notes, University seminars, reports on research by others etc.

C.25
‘Group Discussions’. Spiral bound softback notebook
Used from the back and from the front 19 November 1990-21 April 1997.
Subdivided into sections, by raised tags, with intercalated pages, including extensive data, OHP transparencies, and folder containing two sets of data and covering letter in pencil to Milstein from ‘Adrian [Woolfson]’ dated 7 August 1998, annotated with Milstein’s comments.

C.26
‘Divisional Meetings’. Spiral bound softback notebook
Used from the back and from the front. Undated but there is a reference to a review to be conducted at the ‘end of [19]93’.

C.27
Hardback bound notebook
Intercalated material includes minutes of meeting of Cambridge Antibody Technology Scientific Advisory Board 22 November 2001, and computer printouts dated 21 March 2002.
Research, C.1-C.340

C.28 ‘Summaries + Theories’. Hardback bound notebook 1999-2001
Used from the front and from the back 22 December 1999-31 October [2001].

C.29-C.38 Notebooks of J.M. Jarvis 1963-1984


C.30 ‘Book II’ 1965-1967
Includes rabbit and human data.

C.31 ‘Column Book’ 1965-1972
Light green cover. 11 February 1965-ca 23 May 1972.
Includes work in Milstein’s hand.

C.32 ‘[...] Peptides, & Gels + Microzone’ 1970-1972
Small format, with dark green cover mostly in Jarvis’ hand. 25 September 1970-7 May 1972.

C.33 ‘Mutation Expts’ 1971-1972
Small format, with dark green cover. 9 December 1971-10 April 1972.

Large format with mid-brown cover. 7 November 1974-14 October 1980.
With ‘Index [of experiments] on inside front cover’.
Continues in C.71.

Research, C.1-C.340

Small format, with black cover. 18 December 1976-5 July 1979.

Including cloning, etc.

C.36

‘SDS. 1. JM.J.’


1976-1981

C.37

‘SDS. 2. JMJ’


1981-1984

C.38

‘Media’

Small format, with dark green cover. 22 September 1970-ca February 1977.

Dates mostly refer to date batches made up, experiment changes, etc. Other hands besides Jarvis occur, possibly including S.C. Howe.

1970-ca 1977

C.39-C.47

Notebooks of S.C. Howe

ca 1970-1988

C.39

‘Freezer Liquid N 2 (nitrogen)’ and ‘Spinners & Bottles’

Small format with dark green cover.

Used from the back 19 December 1970-12 July 1974.

ca 1970-1974

C.40

‘1 E F Screen’. ‘Screening’

Medium size format, with dark green cover.

2 June 1972-11 August 1975.

1972-1974

C.41

‘Cells frozen in liquid N 2 From 24-7-[19]72’

Also inscribed ‘Blue = Cell Lines on Computer List. Green

1972-1977
Research, C.1-C.340

= Cleared Out (10 years old).

Medium size format, with dark green cover. 24 July 1972-22 August 1977.

C.42
'Shirley' 1972-1977

Small format, with dark green cover. 26 July 1972-10 February 1977.

C.43-C.46

Numbered series of four.

C.43
‘1’ 1972-1976

Medium size, with dark green cover. 2 March 1973-26 March 1976.

C.44
‘2’ 1976-1977


C.45
‘3’ and ‘Sept. 1977’ 1977-1979

A4 size, with black cover. 30 August 1977-1 November 1979.

C.46
‘4’ 1979-1988

A4 size, with black cover. 21 November 1979-23 August 1988.

C.47
‘Shirley’ 1976

Medium size format, with dark green cover.

Including cloning and brief notes by Milstein on back page. ca 6 October 1976.

C.48-C.58
Notebooks in the hands of other collaborators 1975-1988
Research, C.1-C.340

A number of researchers are identified although many notebooks bear several different hands, which are not always identifiable. C.53-C.58 may be a series of notebooks used by Jose Yelamos.

C.48

‘Colin Ward Book?’

A4 size, with black cover. 24 February 1975-18 November 1976.

C.49

‘Cloning’

Much of the contents may be in C.D. Wilde's hand.

C.50

‘IEF/SDS Oct. 1975 C.D. Wilde [?]T34’ and ‘Gels’


C.51

‘Serum Media Records’


C.52

‘SDS & IEF. Bruce./Richard’


C.53

Untitled


C.54

Untitled


Including notes in Spanish at the back of the book, possibly referring to operation of a computer programme.
Research, C.1-C.340

C.55  ‘4.4.96-17.4.97 Except LAC system and GFP’  1996-1997
4 April 1996-17 April 1997.

C.56  ‘GFP and LAC R Exp’  1996-1997
Including notes in Spanish at the back of the book, possibly referring to operation of a computer programme.

C.57  Untitled  1996-1997

C.58  ‘Jose - 98’  1998


This material records work of Milstein and his research group in the Laboratory of Molecular Biology in Cambridge. They are divided into sequences (‘Mouse/rat 1’, ‘Mouse Hybridomas No.1’ etc) based on their arrangement on receipt from the Laboratory of Molecular Biology.

Nearly all the material was found in green plastic MRC ringbinders, described as ‘Lab notebooks’, with labels or inscriptions on the spine and/or front cover. These have been reproduced in the catalogue entries. In most cases the contents were organised by card subdividers or adhesive tags.

Most of the binders contain work in a number of different hands. Many include Milstein’s brief manuscript annotations and comments on the work done, instructions or replies to questions left in the folder for him to answer.

The material within the binders may include manuscript and typescript notes, tables of experimental results, diagrams, computer printouts, photocopies of references cited etc. There are many intercalated pages, including a little correspondence, and photographic data either loose or attached to the pages.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.59-C.70</td>
<td>'Mouse/rat [No.]1'</td>
<td>1981-1995</td>
</tr>
<tr>
<td>C.71-C.81</td>
<td>'Mouse Hybridomas No.1'</td>
<td></td>
</tr>
<tr>
<td>C.82-C.94</td>
<td>'Mouse [Hybridomas] No.2'</td>
<td></td>
</tr>
<tr>
<td>C.95-C.105</td>
<td>'Mouse Hybridomas No.3'</td>
<td></td>
</tr>
<tr>
<td>C.106-C.116</td>
<td>'γ Hybridomas (Rat) No.1'</td>
<td></td>
</tr>
<tr>
<td>C.117-C.121</td>
<td>'γ Hybridomas (Rat) No.2'</td>
<td></td>
</tr>
<tr>
<td>C.122-C.132</td>
<td>'γ Hybridomas No.3'</td>
<td></td>
</tr>
<tr>
<td>C.133-C.141</td>
<td>'Human cells'</td>
<td></td>
</tr>
<tr>
<td>C.142-C.168</td>
<td>Group</td>
<td></td>
</tr>
<tr>
<td>C.169-C.195</td>
<td>'Group R.A’s'</td>
<td></td>
</tr>
<tr>
<td>C.196-C.206</td>
<td>'Misc. Lab. notebooks'</td>
<td></td>
</tr>
</tbody>
</table>

**C.59-C.70**

'Mouse/rat [No.]1'

**C.59**

'Bone Marrow & Ludwig [Institute] Serum Records'


**C.60**

'NQ5, NQ2/H Loss Expts. & Fusions'


Manuscript note found on cover as follows: 'John [?Jarvis]: Urgent: Trace back the origin of NQ2/L Ag. Did you derive it? What is the clone designation before it was Ag?'

**C.61**

'FACS Sorts'


**C.62**

'RP’s Gels'

1983-1986
Research, C.1-C.340


C.63  ‘BIOTIN 2 P4M3’s’  1984

C.64  ‘Work sheets Suresh #5005’  1984-1985

C.65  ‘Luminol’  1985


C.67  ‘N21 Fusions’  1988
      15 April-4 August 1988.


      7 September 1990-1 August 1991.


C.71-C.81  ‘Mouse Hybridomas No.1’  1971-1987
Research, C.1-C.340

C.71

‘W6. NA1’

Inscribed inside front cover ‘Expts before 1981 see JMJ book 7/11/74 - 17/10/80’ (see C.34).


Also loose papers re BALB C MICE, HYBRIDS, and LOU RATS, and ‘Medium Formulation for Myeloma lines’, 1p.’.

C.72

‘Frozen Cells’.

Label on front cover states ‘Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis]’.


C.73

‘Frozen Cells’

Also inscribed ‘Freezing file. D. N - Hybrids’ and ‘Cell lines marked with Green have been lost or cleared out. Blue = on computer’.


C.74

‘Bruce’s Experiments’. ‘X-63  Herman’

9 March-ca 26 December 1977.

Includes letter to S.C. Howe from GIBCO Bio-Cult Diagnostics Ltd re purchase and shipment of foetal calf serum, 18 March 1977, loose in folder.

C.75

‘W6/1-HLK2’


C.76

‘NH2 & 3 (JMJ[arvis])’

C.77  'Clonings'. ‘Moises/Herman. NH2 & NH3 fusion α HaG’  1979-1982

C.78  ‘NO HYBRIDS’ and ‘Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis]’


C.80  ‘NOC 1. NOC 2’  1981-1987

C.81  ‘SP2 Expts’  1982
3 February-9 June 1982.

C.82-C.94  ‘Mouse [Hybridomas] No.2’  1972-1992

C.82  ‘Frozen Cells’  1972-1981
Also inscribed ‘House cell lines 0 to 2’. ‘Cell lines marked in Green have been lost. Or cleared out. Blue = on computer. JMJ[arvis].’ ‘Do not remove vial without CM consent’.
4 August 1972-23 September 1981.

C.83  ‘Frozen Cells’  1972-1986
Also inscribed ‘Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis].’
Research, C.1-C.340


C.84  ‘Cold Preps I’ and ‘X63 only’  1974-1978
ca 7 February 1974-8 March 1978.


This binder may be the ‘Book One’ referred to at C.116.

5 October 1979-17 June 1980.


C.91  ‘Gels’  1980-1984
Research, C.1-C.340


18 February 1982-1 August 1986.

C.94  ‘Mice & Rats’ 1984-1985

C.95-C.105  ‘Mouse Hybridomas No.3’ 1977-?1994


C.96  ‘NC1’ 1977-1983
22 August 1977-1 November 1983

C.97  ‘Ongoing T.C.’ and ‘Bruce’ 1980-1982

C.98  ‘UNP Fusions. Abortive NCC9/ISM1/2 also’ 1984
4 June-1 August 1984

C.99  ‘Oxazolone. NQ 15,16,18, 28. NQPLEQ Spleen. NQ30 - 7day 2’ 1985-1992
Research, C.1-C.340


C.100 ‘Oxazolone Mixtures + Inhibitors.’ ‘SRBC coupled} OXBSA, lysosymc. H Chain Lost Variants} OX., LYS’ 1985-1988

Intercalated inside the front of the the main binder was a smaller folder titled ‘Info for John - Melanie’s Experiments’.

C.102 ‘NOR3’ 1989-1990


C.105 ‘PRO/DEL/ENG. (NER EXO)’ and ‘ENG. PRO1/DEL2 - Alex 8.2.94’ 1993, ?1994
Material appears to date 30 March-1 December 1993.


Research, C.1-C.340

C.107  'S1. YB1, YB2, YB3, Sp2/0, Sp33, NA1/34'  1978-1979

C.108  'YE3, YE4, YE5'  1978-1979

C.109  'YB2'  1978-1983

C.110  'YM2. YB4/'  1979
       1 February-8 May 1979.

C.111  'YL1, YOL1, YD, YG, YOG'  1979-1981
       10 May 1979-20 July 1981


C.113  'Anti-Peroxidase Fusions. YC6, YOC6, NOC3, NOC4. YP4'
       1981-1983

C.114  'YOC. YODC'  1982-1983

C.115  'Hybrid 1 Hybrids'  1982-1985

Research, C.1-C.340

The binder referred to as ‘Book One’ may be at C.88.

C.117-C.121 'γ Hybridomas (Rat) No.2' 1972-1988

C.117 'γ Hybrids. 1978 - '
Also inscribed ‘Cell lines marked in Green have been lost (7H), or cleared out. J.M.J[arvis]. Blue = on computer’.

C.118 'YA2, YB2, YC5, YD1, YE2, YL1, YK2, YOL1, YOK5, YC6, YA9'
Also inscribed ‘Animal House (LMB) Cellulose Acetate Sera and Urine tests. Phil Wright. Use other book (Rats)’.

C.119 'Frozen Cells'. 'YO Hybrids'
Also inscribed ‘Cell lines marked in Green have been lost or cleared out. Blue = on computer. J.M.J[arvis].

C.120 'YP1 (Bu) (YC6/141HL.Bu)'

C.121 'Y4C7, YQ3, Y21, YDC/6, YODC/6, YODC/5, YODC/3, YTH/76, YC8, YN9, YAML, YP1, YOM1' and 'Experimental Records. Rats'
Also inscribed ‘Ascites/serum in this book are kept by the animal house until pooled’.
## Research, C.1-C.340

### C.122-C.132

<table>
<thead>
<tr>
<th>C.122-C.132</th>
<th>'γ Hybridomas No.3'</th>
<th>1978-1986</th>
</tr>
</thead>
</table>

### C.122

- 'YE1, YE2'  

### C.123

- 'YQ1, YOQ1'  

### C.124

- 'α Somatostatin Fusions. PYC7, HLK'  

### C.125

- 'α GAD 19-4-{19}83'  
  19 April-26 September 1983.

### C.126

- 'YE8, YN 7, 8, YON 1, 2, YN 9, YN 10, YON3, YON4'  
  18 July-24 November 1983.

### C.127

- 'YM5, YM6, P4M2.' 'YM3, YM4, P4M1, BIOTIN'  

### C.128

  29 May-6 December 1984.

### C.129

- 'YG, YOG'  
  8 November 1984-17 December 1986.

### C.130

- 'YOS1, YS10, P4S1'  
C.131  ‘EG-BSA. 2C6xMAP2’ 1985
2 July-25 September 1985.

C.132  ‘α RICIN 6-3-[19]85’ 1985-1986

C.133-C.141 ‘Human cells’ 1980-2001


C.134  ‘HMy2 Fusions etc.’ 1981-1982

C.135  ‘FACS I. RP 31-8-83 - 18-3-86 Analyses’ 1983-1986
See also C.138, C.139.

C.136  ‘Clones, Probes, Etc. From: Jos [Even], Luis [?Martin],
Tertia [Softley], Andrew [Bradbury], Franco [?Calabi],
Caroline [Bilsland], Yung[-Yu]’ 1983-1992
Individual sections of the binder seem to be the work of
named researchers.
Includes paper by Milstein, J. Even, et al (Bibliog. 215,
1985), and letter from M. Claesson re CD1 antigen, rabbit
antiserum, etc 2 February 1990.
Research, C.1-C.340

C.137
‘Thymus. HTA/HLA’
Includes 4pp draft copy of Bibliog. 221 (1986) as ‘Submitted to Cellular Immunology 11/1/[19]85’.

C.138
‘FACS II. RP 18-3-[19]86 -. Analyses’ and ‘Workshop stuff’
Also includes list of Milstein’s collaborative ‘Published Work’ (1986-1993); flow diagram and instruction sheets for ‘Preparation of Monoclonal Antibodies’, n.d.; material for meetings including the 3rd, 4th, and 5th International Workshops and Conferences on Human Leucocyte Differentiation Antigens, held in Oxford, 1986 (see G.34), Vienna, Austria, 1989, and Boston, Massachusetts, USA, 1993 (see G.72); two sets of documents marked ‘Leucocyte Workshop Cell/MAb requests’ and ‘Workshop summaries/results’ respectively.
See also C.135, C.139.

C.139
‘FACS III. 10-11-87 - 11-8-89’
See also C.135, C.138.

C.140
‘3A12/10B3 a-CD1a Yung Yu’

C.141
‘AK Experiments’
### C.142-C.168  Group  1985-1999


The bulk of the material was contained in green ringbinders, but occasional material is in the form of a hardback bound notebook.

<table>
<thead>
<tr>
<th>C.142</th>
<th>[Untitled]. ?NQ 10, etc.</th>
<th>1985-1992</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Inscribed inside front cover ‘Martin Dreher’.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mostly preparation methods, manuscript or typescript by the researchers, or in the form of photocopied published papers and information sheets. Also includes graphs, email printouts, calculations and formulae, etc.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C.144</th>
<th>‘Vector Maps’</th>
<th>1988</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>C.145</th>
<th>‘Constructs. NQ10/12.5’</th>
<th>1988-1989</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>C.146</th>
<th>‘NQ Database’</th>
<th>ca 1988</th>
</tr>
</thead>
</table>

|---|---|---|
Research, C.1-C.340

Refers to J. Yelamos.

Mostly computer printouts of costings, including for 'Bone marrow experiments box', 2 June 1991-23 August 1999.


Refers to A.G. Fernandez.


Includes intercalated pages, with material including film and photographic data pasted or stapled onto the pages.


C.151  ‘Other Oligos’ and ‘CDR’ 1992-1995


Includes slides and photographs of laboratory mice playing uncaged.
Research, C.1-C.340

C.155 ‘MOD (BG) FUSION’ 1993-1995

C.156 Research folder. 1994
‘RNA Experiment. José [Yelamos] Cell Prep[aration]’.

Bears A.G. Fernández’s ‘trademark’ symbol on the spine.

C.158 ‘S107 + neo - 6’ and ‘José [Yelamos]. C[ristina] Rada.
Trans F[ections]. CDRNG/Y2’ 1994-1995

Includes two letters to Milstein from Fernández, n.d., and data entitled ‘César’s Project material’.


Notebook probably used by J. Yelamos.
Includes photographs and other data pasted onto the pages, and intercalated material.

Research, C.1-C.340


C.163 ‘Copy D Animals’ 1995-1996
Includes material found with the research folder marked ‘CJS Project’.

C.164 ‘CDR/NG Hybridomas’ 1995-1997


C.166 ‘ES José [Yelamos]’ 1996-1997
Includes published papers, and research correspondence.


C.168 ‘José [Yelamos]’ 1997-1998

Sequence of material received from the Laboratory as ‘Group R.A’s’. Various researchers’ names occur.
Chiefly a mixture of large, narrow ‘Gel’ film sheets and
related research data, found loose or in cardboard folders. Titles and dates given where known. Includes much outsize material.

C.169  Untitled 1983, 1995


C.172  DNA research data, 20 July 1993

C.173  ‘MOD sequences’ and ‘?8’ 1993 and n.d.
A.G. Fernandez’ research data, 22 December 1993 and n.d.

14 March 1993; 17 March and 31 April 1994; and n.d.

C.175  ‘Africa’s NER, DEL, EXO. Mio &’ 1993-1996
Includes copies of papers by Fernandez and Milstein (Biblog. 276, 1993), and Fernandez and Milstein and D. Gilmore (Biblog. 283, 1994).

C.176  Several sets of film sheets and research data 1994, n.d.
19, 31 January 1994 and n.d.
Research, C.1-C.340


C.179  ‘Sequences from CDR/NG’  1994, n.d.

Originally found tied together with C.180.

C.180  ‘CDR/NG 6236 Hybridomas Neo’.  1994-1995

Originally found tied together with C.179.


Also inscribed ‘Conclusion: Esto es una basura hay que repetirlo’.


9-17 December 1994 and n.d.


16 January 1995

C.184  Gels 1-11  1995
### Research, C.1-C.340


<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Date Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>28 February-28 September 1995 and n.d.</td>
</tr>
<tr>
<td>C.187</td>
<td>‘Core 56/72. Gels: 1, 2, 3, 4. 56 - 7; 8 - core 72’</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 May-8 June 1995 and n.d.</td>
</tr>
<tr>
<td>C.188</td>
<td>‘CDR/NG Hybridomas’</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13 May 1995 and n.d.</td>
</tr>
<tr>
<td>C.189</td>
<td>‘DEL Core Data’</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 May 1995 and n.d.</td>
</tr>
<tr>
<td>C.190</td>
<td>‘Gels 1, 2, 3 MOD Hybridomas. Gel 7 Core 56. 32-22’</td>
<td>1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 May 1995 and n.d.</td>
</tr>
<tr>
<td></td>
<td>Mostly ca 15 June-21 September 1995, and n.d.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Includes earlier material dated 8 March 1983.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 November - 2 December 1995 and n.d.</td>
<td></td>
</tr>
</tbody>
</table>
C.193 Untitled 1996
30 August 1996 and n.d.

C.194 Untitled 1996 and n.d.
3 September 1996 and n.d.

C.195 Untitled 1998
17 December


C.196 ‘M4 NOE2’ 1983
7 February-7 July 1983


C.198 ‘J558 Cloning’ 1984


C.200 ‘Oligos from Martin [Dreher]’ 1987-1990
26 June 1987-ca 7 December 1990.

Research, C.1-C.340


C.203 ‘Transfections Oxazolone OX/AC0 TAG expts’ 1987-1996

C.204 ‘NS1 s35 Jan.[19]90-’ 1989-1990

C.205 ‘FACS IV inc. Mouse spleen expts’ and ‘lgG-IgM. Ox-Biotin’ 1989-1992

C.206 ‘SAID [10H Clones]’ 1995
16 May-7 August 1995.


Jarvis was Milstein’s longstanding laboratory technician and research officer who worked with him from the mid 1960s.

C.207-C.232 ‘CM/JMJ Lab. Notebooks’
C.233-C.246 ‘JMJ Lab. Notebooks’
C.247-C.257 ‘JMJ Oxazolone’
C.258-C.268 ‘JMJ Transgenics’
Research, C.1-C.340

C.269-C.279 ‘JMJ Oxazolone’


These are mostly in the form of MRC ringbinders with green covers. The early binders contain much in Milstein’s own hand but in later ones the hand of Jarvis predominates, with a number of other hands, probably research students.

C.207 ‘Mouse [?] RNH’ 1969-1970


C.210 ‘Myeloma mRNA 32p’ ca 1972-1975
13 June 19[?72]-16 June 1975.

C.211 ‘Cell Library’ and ‘[...] In Container 7. Cells are not to be removed from Library without prior consultation with C. Milstein’ 1972-1991


The ‘I.E.F. PAS, 2D, Westerns’ material (C.222) was found with this binder but probably in error. There is no apparent subject connection between the items.
Research, C.1-C.340

C.213  ‘Shirley Howe 1975-77’  1975-1977
ca 13 May 1975-2 March 1977.

C.214  ‘Cells. So2. NT1. Misc. Andreas [?B…] etc Plaquing &
spot tests. N.B.NH 2 & 3 now in separate binder’  1976-1979
20 April 1976-6 April 1979.

17 October 1977-16 April 1981.

C.216  ‘NA1/34 etc.’  1977-1999
Also inscribed ‘Mouse sera [alpha] Purified Protein. No
entries without my agreement CM 14/12/79’.

C.217  ‘Mutants. X63  F2.19 NSII/1.28 NSO X27’  1979-1983
Including a little copy data 1966 and 1968 possibly used
for comparison of results.

C.218  ‘Rat sera α Purified Protein’  1979-1998

M241. NUT/2. WM.25. PHM3’, ‘Protein P Sepharose


The ‘Spinner Records’ material (C.212) was found with this binder but probably in error. There is no apparent subject connection between the items.

Includes published paper by Milstein and M.R. Suresh, and draft paper by Milstein et al annotated ‘Uncorrected version’. See Bibliog. 216 and 223 respectively.

C.224  ‘AGPT assays’  1988-1989
2 December 1988-1 August 1989.

C.225  ‘mRNA. Prep[aration]. & sequencing’  1988-1990

C.226  ‘Transgenic. ELISA’s’  1994-1995
Research, C.1-C.340


C.228  ‘Sorts and Cytopluorimeter’  1998-1999
1 June 1998-14 September 1999.

C.229  ‘Hot Spots Folder’  1998 and n.d.
Dated material is ca 20 February-ca 2 June 1998.


C.231  ‘Transgenics. PCR (151-.)’  1999-2002
For PCR nos 1-52 see C.264 and nos. 53-150 see C.268.


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<td>C.234</td>
<td>'PARP'</td>
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<td>'SCELL'</td>
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<td>6 July-16 August 1999.</td>
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<td>C.237</td>
<td>'RGFP44Ag 1 ssc Aug/Sept 99'</td>
<td>1999-2000</td>
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<td>C.238</td>
<td>'R13 lo.8 time courses'</td>
<td>1999-2000</td>
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<td>C.239</td>
<td>'R13 lo.8 ssc/DNA'</td>
<td>1999-2000</td>
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<td>26 October 1999-10 May 2000.</td>
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<td>C.240</td>
<td>'JMJ’s SWITCH'</td>
<td>1999-2000</td>
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<td></td>
<td>Including earlier copy material etc., 1996-1998, and letter re cell line distribution to Cristina Rada, 6 June 2000.</td>
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<td>C.241</td>
<td>'2000/1 Fusions'</td>
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<td>C.242</td>
<td>'RHA 2'</td>
<td>2001</td>
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Research, C.1-C.340

C.243 ‘DT40’ 2001
22 May-22 October 2001

C.244 ‘JMJ’s SWITCH 2001/2’ 2001-2002
7 February 2001-7 May 2002.


C.246 ‘RGFP v’ 2001-2002

C.247-C.257 ‘JMJ Oxazolone’ 1981-1993

C.247 ‘NQ1-8 (Primary). Protein A. Sepharose purification’s’ 1981-1986


C.249 ‘Ox GABA Preparation’s’ 1983-1985

C.250 NQ 10 - (Secondary). Protein A - Sepharose purification’s 1983-1989

Research, C.1-C.340


Includes paper by Milstein, Jarvis et al (Biblog. 205, 1984), and correspondence to Milstein from D. Jeske, University of Texas, Dallas, 1983, re chain recombination experiments.

C.252 ‘Equilibrium Dialysis NQ’ 1984-1987

C.253 ‘Prep. NQ H α L chains’ 1985-1986


C.255 ‘NQ (Tertiary)’ 1987-1993

C.256 ‘NQB Cloning & Results’ 1988


C.258-C.268 ‘JMJ Transgenics’ 1993-1999

Each binder was labelled ‘Transgenics’, with secondary labels as given below.
Research, C.1-C.340

Laboratory experiment instructions, etc., including photocopy material, some dating to 1986. 14 July 1993-14 May 1997.


C.261 ‘Stock. LEA, LIS 1718, LIS 1922, LK 1924, LO 3033’ 1994-1996

C.262 ‘Southern 1-50’ 1995-1997
For Southern nos. 55 and 57 see C.263; nos 51-66 see C.267; and nos 15, 27, 33, 35, 62 and 65 see C.279.

Includes Southern nos. 55 and 57.
For Southern nos 1-50 see C.262; nos 51-66 see C.267; and nos 15, 27, 33, 35, 62 and 65 see C.279.

C.264 ‘PCR’ 1995-1997
For PCR nos 53-150 see C.268 and nos 151-208 see C.231.
Research, C.1-C.340

C.265

‘ELISA Assays. 8/1/96-18/12/96’
8 January-18 December 1996.

C.266

‘ELISA Assays. 7/1/97-’
7 January-17 October 1997.

C.267

‘Southern 51-.’
For Southern nos 1-50 see C.262; nos 55, 57 see C.263; and nos 15, 27, 33, 35, 62 and 65 see C.279.

C.268

‘PCR (53-150)’
For PCR nos 1-52 see C.264 and nos 151-208 see C.231.

C.269-C.279

‘JMJ Misc.’

C.269

‘JMJ M4 Exp[erimen]ts. Prep[aration]. Rabbit a HTA IgG’

C.270

‘CD1. (LM) (FC) (AW) (AB) (TB)’

C.271

‘Transfectant Work’

C.272

‘Current Tissue Culture’
Research, C.1-C.340

C.273  ‘Primers’  1988-1993

C.274  ‘NQC’  1991
19 February-4 April 1991.


C.277  ‘PHYCO. RPE-FaB’  1993

14 May-15 July 1993

C.279  ‘μ M’  1994-1997
Includes Southern nos. 15, 27, 33, 35, 62 and 65.
For Southern nos 1-50 see C.262; nos 55, 57 see C.263; and nos 51-66 see C.267.

C.280-C.323  ADMINISTRATION OF RESEARCH  1967-2001

C.280-C.320  Distribution of samples
This material chiefly comprises correspondence, permission and signed conditions documents, forms, cell line requests and lists, notes, etc., re rat and mouse cell line samples sent by Milstein’s laboratory to various institutions and laboratories around the world.

The bulk of the material was filed in folders and wallets or in MRC ringbinders. Labels or inscriptions found thereon have been reproduced in the catalogue entries.
Research, C.1-C.340

C.285  ‘1977’

C.286  ‘1978’

C.287  ‘1979’

C.288  ‘1980’

C.289  ‘1981’

C.290  ‘1982’

C.291  ‘1983’

C.292  ‘1984’

C.293  ‘1985’

C.294  Correspondence, notes and research data 1978-1985
Original folder marked ‘Misc. Cell lines sent’.

C.295  Correspondence, and lists of ‘Names and Addresses for Dr Milstein’s rat cell lines’ 1979-1980

C.296  Correspondence including cell line despatch information 1979-1980
Research, C.1-C.340

Correspondence including cell line despatch and receipt information December 1979-December 1980.


C.299 ‘Cheques received and given to Admin.’ 1979-1986
Correspondence October 1979-February 1986.

C.300 ‘Permission/Collected. To be added to list’ 1979-1988
Brief correspondence, rat cell line lists of donors and recipients, indexed alphabetically by country or by surname, and conditions of use of the cell line and permission for same.

C.301 Mostly proforma despatch of rat cell lines and conditions of use documents 1980-1982

C.302-C.304 Contents of three folders inscribed ‘Signed Conditions - Collected/Received from Elsewhere’. 1979-1986
Correspondence and signed conditions.


C.303 ‘(F-M)’ 1979-1985

C.304 ‘(N-Z)’ 1979-1986

C.305 ‘Sera-Lab’ 1980-1987
Contents of folder so inscribed: correspondence, research data, copy agreements re ‘Growing cultures’ etc.
C.306  ‘Mouse Cell Line conditions etc’  1980-1988
Contents of folder so inscribed.

Three folders of correspondence and despatch lists etc.

C.307  ‘1981-1982’

C.308  ‘1983’.


C.310  ‘Hybridomas Sent’  1981-1985
Correspondence and cell line despatches.
Includes two photographic slides.

C.311  Letter from R. Linke and C. Hübner-Parajsz of Boehringer Mannheim, Germany re the ‘myeloma cell line NS 0/1’, 28 July 1982  1982


C.313  ‘Rat requests. Letters & conditions sent’  1982-1985

C.314  ‘“Permissions” only - Awaiting signed conditions’  1982-1988

C.315  Correspondence and cell line despatches  1983-1986
Research, C.1-C.340

C.316
‘Rat lines pending’
Correspondence February 1984-May 1985.

C.317
‘Misc. Rat lines 1984, 85’
Brief correspondence and cell line despatch data March 1984-March 1985.

C.318
‘Documentation’
Mostly pro formas re cell lines sent ‘To ECACC for distribution’.

C.319
Letter to J.M. Jarvis from A. Cambrosio re information for map of the distribution of Milstein’s rat and mouse myeloma cell lines around the world, 11 August 1993.
Includes 6pp distribution lists (year, cell line, city, state, and country) covering 1979-1984.

C.320
Work on ‘Isolation of antibodies recognising foetal cell surface markers’
8pp draft manuscript notes by Milstein 8 and 19 January, 26 February, 23 March and 14 June 1996; progress reports 19 January, 16 February, 21 March, 16 May and 14 June 1996.

C.321-C.323 Funding of research 1992-2001

C.321
Correspondence and papers re grant applications and renewals.

C.322
Correspondence and papers re research grant applications and renewals.

C.323
3pp manuscript draft grant application ‘Somatic hypermutation of antibody genes’ ca 1995
Proposed project to start 1 October 1995.

C.324-C.340  PATENTS  1975-2002

Filings, applications and renewals of patents in the US, UK, Germany and Australia for Milstein’s own and collaborative inventions.

Includes correspondence with the Medical Research Council and the National Research Development Corporation (NRDC) (later the British Technology Group), drafts and copies of final patents, assignment of rights in patented inventions, cell line and research reagents distribution and sales permission requests, licensing agreements, etc.

C.324-C.330  Milstein’s patents
C.331-C.336  Cell line licensing
C.337-C.340  Miscellaneous material re patents

C.324-C.330  Milstein’s patents  1975-2002

C.324  ‘Rat monoclonal antibodies (2)’, UK patent application no. 7900775, re-filed 9 January 1979  1975-1981

Correspondence and papers, chiefly relating to the failure to patent the technology of producing monoclonal antibodies.

C.325  ‘Rat lines. Rat patents (Y3) with complement YO etc’  1979-1984

Contents of folder so inscribed, chiefly re UK and overseas patents for ‘Improved Rat Cell Line’.

C.326  ‘Celltech’  1981-1984

Contents of folder so inscribed: correspondence and papers re Celltech/MRC collaboration on release of cell lines and commercial exploitation of monoclonal and hybrid antibodies. See also E.9-E.18.
Lectures and publications, D.1-D.152


C.328 ‘Single step cloning’


C.329 ‘Adrian [Woolfson]/CM Project’

Contents of folder so inscribed: correspondence and papers re soluble CD project including ‘Pattern analysis of CD antigens present in body fluids as a method for the diagnosis, prognosis and monitoring progression of diseases’, UK and international patent application no. PCT/GB00/))987, filed 16 March 2000, by Milstein, N. Hales and A. Woolfson.

The Soluble CD Project was carried out within Hales’ laboratory in collaboration with Woolfson and Milstein, 2001-2002.

CLOSED UNTIL 2078

C.329A ‘Woolfson’

Contents of folder so inscribed: correspondence and papers re soluble CD project.

CLOSED UNTIL 2078

C.330 ‘Oscillating bubble chamber for laboratory scale production of monoclonal antibodies as an alternative to ascitic tumours, patent application no. 9112836.3, filed 14 June 1991, Milstein and R. Pannell

Correspondence and papers re development of the patent, international patent applications and licensing agreements.
C.331-C.336  Cell line licensing  1979-1996

C.331  ‘Miscellaneous Industry (Companies etc)’  1979-1993

Contents of folder so inscribed: proposed renewals of existing licences and commercial collaborative agreements between MRC and others etc.

C.332  Cell line licensing agreements, etc and Milstein’s granting of permission requests re utilisation of Y3 and YO and other cell lines  1982-1996

C.333  ‘Serotec’  1983-1985

Contents of folder so inscribed: correspondence and papers re proposed collaborative agreement between Milstein (for the MRC) and Serotec Ltd re commercial retailing distribution of cell lines and research reagents.

C.334  Cell line sale request by J. Klotz of the City of Hope National Medical Center, Duarte, California, USA, and Milstein’s permission  1984

C.335  ‘[CD1] Clones’  1987-1996

Contents of folder so inscribed: mostly requests for purchase of CD1 clones, with details of samples sent or permission given by Milstein, and MRC agreements for non-commercial use of clones.

Including copy agreements, accounts and receipts, and despatch details of clones sent.

C.336  ‘CD1’  1990-1992

Contents of folder so inscribed: requests for CD1 clones and collaboration proposals.

Includes mailing lists for ‘CD1 Papers’ and for ‘AB
Lectures and publications, D.1-D.152

Diversity’.

C.337-C.340  Miscellaneous material re patents  1986-1996

C.337  Correspondence re commercial exploitation of monoclonal antibodies

This correspondence arose from Milstein’s attendance at a Downing Street luncheon hosted by the Prime Minister Margaret Thatcher.

Includes letters of thanks from Milstein to the Prime Minister and the Secretary of State for Education and Science, Kenneth Baker, enclosing sets of MRC notes on ‘arrangements for commercial exploitation - monoclonal antibodies to the present day’, and ‘Commercial Exploitation and Collaboration with Industry’.


Includes Milstein’s Declarations in support.

C.339  Correspondence and papers re Milstein’s advice on ‘A process for the preparation of antibodies by genetic engineering’  1987-1988


Contents of folder so inscribed: correspondence and papers chiefly re proposed patent on ‘…displaying antibody fragments on retroviruses’ taken out by G.P. Winter.


Winter was Milstein’s long time friend and collaborator.
Lectures and publications, D.1-D.152

SECTION D

LECTURES AND PUBLICATIONS, D.1-D.152

1959-2003

D.1-D.72A LECTURES

D.73-D.130 DRAFTS AND PUBLICATIONS

D.131-D.152 SLIDES

D.1-D.72A LECTURES

Most of the lecture notes are in English, but where there is Spanish language material this has been noted.

Many of the notes include details of slides accompanying the lectures. See D.131-D.152.

D.1 'Studies on PGM' (title also given in Spanish), ca 1960-1961

40pp draft lecture notes, 1p formulae and draft display cards.

The material was found in folder inscribed 'On the active centre of PGM'.

D.2 'Metal Enzymes', Department of Biochemistry, Cambridge, 1 February 1961

56pp draft lecture notes identified by inscription on original folder.

D.3 'Variations in amino acid sequence near the disulphide bridges of Bence Jones proteins' and untitled lecture on the same subject, 1966

13pp typescript draft lecture notes, ca.1966; 14pp manuscript draft lecture notes, 1966.

Found in folder inscribed 'Department of Biology and...'
Lectures and publications, D.1-D.152

Chemistry Manchester University 9 February 1966’.

D.4 ‘The variability of immunoglobulin structure’, Biochemical Tea Club, Department of Biochemistry, University of Cambridge, 6 March 1968

Programme for Lent Term lectures.

D.5 Lecture for ‘Paris 26 Nov 1968’

Correspondence, some in French, 17pp draft lecture notes, and paper on ‘Structure of Antibody Molecules’ by Milstein and S. Cohen.

Identified by inscription on original folder.

The original lecture had been cancelled due to ‘…the events which kept France in a turmoil’ and was rescheduled for 26 November 1968.

D.6 ‘The Structure of Ig and genetic implications’, Department of Genetics, University of Cambridge, 18 November 1969.

Seminar on ‘sequence studies on immunoglobulins and their genetic implications’, being one in a series of seminars at the Department.

3pp draft lecture notes, and invitation and reply.

D.7 ‘The Nature of Ab variability’, Department of Biochemistry, University of Bristol, 13 March 1970

2pp draft lecture notes.

D.8-D.12 Visits to USA, April-May 1979

The material includes papers relating to earlier visit, 1978, and return visit in November 1979.

Milstein undertook a lecture tour of the USA in April-May 1979. He comments that ‘…the rest of the USA tour went smoothly in spite of the difficulties…because of the airlines strikes’.
Lectures and publications, D.1-D.152

D.8 ‘Lectures. Berkeley 1978’ as marked on original folder.  
58pp draft lecture notes.  
/...  
Titles are not given or are unclear.  
1978

D.9 Nelson Medical Lecture, Davis Campus, University of California, USA, 1978-1979.  
Brief correspondence.  
1978

D.10 Talk at Brandeis University, Waltham, Massachusetts, USA; and Philip Levine Lecture, Rockefeller University, New York, USA, April or May  
Correspondence and 1p abstract of talk, 1979; 2pp manuscript draft lecture notes marked ‘Rockefeller - Levine Lecture’.  
1979

D.11 ‘Monoclonal antibodies from hybrid myelomas’, V.D. Mattia Lecture, Roche Institute of Molecular Biology, Nutley, New Jersey, USA, 15 November 1979  
Correspondence.  
This material with that at D.12 was found grouped together and marked ‘USA Nov. [19]79’.  
1979

Correspondence.  
This material with that at D.11 was found grouped together and marked ‘USA Nov. 79’.  
1979

D.13 ‘Strategies in Derivation of Monoclonal Antibodies from Hybrid Myelomas’, Basic Medical Sciences Lecture, New York University Medical Center, sponsored by The Burroughs Wellcome Fund and the Federation of American Societies for Experimental Biology, 1 April 1980.  
Correspondence and notice.  
1979-1980
Lectures and publications, D.1-D.152

D.14  Hardback notebook of lecture notes, with loose sheets intercalated  1980

Includes ‘Talk at MRC Cell board in 1980?’, ‘Mattia Lectureship’, and ‘NYU Seminar: Mutants of Structure and secretion of Ab’


Letter, 9pp notes and 1p annotated table.


Correspondence, some in Spanish, programme, 11pp manuscript draft lecture notes in Spanish; and 11pp typescript draft lecture notes in English, 2pp references and 1p figure legends.

Also programme for 12th commemorative lecture, May 1980, and nominations for the 14th lecture in 1982 with Milstein's annotations.


Correspondence and 20pp draft lecture notes.


2pp manuscript draft lecture notes.
### Lectures and publications, D.1-D.152

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<td>1981-1982</td>
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<tr>
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<td>Correspondence, some in Spanish, and programme.</td>
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<td>Milstein was also invited to a dinner following the lecture, and to give a further lecture, on ‘Rat and Mouse Monoclonal Antibodies’, to a smaller group of the Division scientists, 8 January 1982.</td>
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<td>1980-1982</td>
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<td>Correspondence and programme, and 32pp typescript draft lecture notes with manuscript corrections, annotated an ‘Early manuscript…’:</td>
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<td>1982</td>
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<th>D.23</th>
<th>‘Monoclonal Antibodies’, Papworth Hospital, Cambridge, 15 April 1982</th>
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<td>1982</td>
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<td>Brief correspondence.</td>
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<td></td>
<td>Milstein was invited to lecture at the request of B.B. Milstein MB, FRCS, to the medical staff at the Cambridgeshire Area Health Authority Thoracic Surgical Unit.</td>
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<th>D.24</th>
<th>‘La diversidad de la respuesta inmune y los anticuerpos monoclonales’ (provisional title), 5th Annual Gerónimo Forteza Lecture, Instituto de Investigaciones Citologicas de la Caja de Ahorros de Valencia, Spain, 31 May 1982</th>
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<td>1981-1982</td>
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<td>Correspondence.</td>
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<td>The lectureship included the award of a gold medal, and</td>
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Lectures and publications, D.1-D.152

the visit to Valencia may have been part of a wider tour.


Correspondence including list of Milstein’s invited guests.

D.25  Rabbi Shai Shacknai Memorial Prize Lectures in Immunology and Cancer Research, Hebrew University, Jerusalem, Israel 27-29 December 1982

Contents of Milstein’s folder inscribed ‘Israel lectures’: correspondence, commemorative booklet, and 93pp manuscript draft lecture notes.

Milstein gave three lectures on ‘Monoclonal Antibodies: From antibody diversity to monoclonal antibodies - Oxazolone’, ‘Monoclonal antibodies and cell surface antigens - If and NA1’, and ‘Monoclonal antibodies in research and clinical medicine’.

D.26  Invitation to lecture at Institut Gustave-Roussy, Laboratoire d'Immunologie des Tumeurs de l'Enfant, Paris, [1984]

Correspondence including 4pp data on ‘D47 and NA1 antigenic sites’.

Milstein replied saying he would ‘try to organise something’, in a letter dated 8 February 1984.

D.27  ‘Antibodies, Myelomas and Hybridomas’, Oliver-Sharpey Lecture to the Royal College of Physicians, London, 10 May 1984

Correspondence and 10pp typescript draft lecture notes.

D.28  Hardback notebook of draft lecture notes (front cover missing) with intercalated material

Includes ‘Colloquio Gimenez Diaz’.

Mostly in Spanish.
Lectures and publications, D.1-D.152

Correspondence.

D.30 ‘Notes for Talk. Meeting at Carry on Idiotypes’, ‘Published in Annals reread today 7 October 1985’
6pp manuscript draft lecture notes.

D.31 ‘Notes for Australia’
6pp typescript draft lecture notes with manuscript introductory remarks beginning, ‘1985 has been a sad year for immunologists’.

D.32 ‘Dissection of immunological response’, University of London Royal Postgraduate Medical School, Hammersmith Hospital, London, 17 January; and ‘Dissecting the immune response’, Biochemistry Department, University of Bristol, 20 January 1986
Correspondence, joint programme (agenda) and itinerary.

D.33 ‘Dissecting the immune response’, European Molecular Biology Laboratory, Heidelberg, West Germany, 4 February 1986
Correspondence and itinerary.

D.34 ‘Dissecting the immune response’, Lady Margaret Lecture, Christ’s College, Cambridge, 24 April 1986
Brief correspondence, programme and notice.

D.35 Lecture at the Academia Médico Quirurgica de Pontevedra, Galicia, Spain, May 1986
Correspondence, some in Spanish, and itinerary.
Lectures and publications, D.1-D.152


Correspondence including publication of lecture, 10pp typescript draft lecture notes and 1p table notes, etc.

Milstein was also asked to give the pre-dinner lecture.

D.37 Lecture at Cell And Molecular Biology Society, Cambridge University, 10 February 1987

Two letters of thanks.

D.38 ‘Antibodies in Diagnosis and Therapy’, Damon Biotech Lecture at the University of Edinburgh, 1 May 1987

Brief correspondence, itinerary, 14pp typescript draft lecture notes, etc.

D.39 Spiral bound softback notebook of draft lecture notes inscribed ‘Lab[oratory] Seminars’

Used from the front and from the back 23 October 1987-ca 30 October 1996.


D.40 ‘Agradecimiento por el Dr Honoris Cause Diciembre 1987’

3pp draft notes for ?speech of thanks for honorary degree.

D.41 ‘Discoveries’ Series Lecture at Darwin College, Cambridge, 5 February 1988

1986-1987

1987

1987

1987-1996

1987

1981-1993
Lectures and publications, D.1-D.152

Correspondence, 17pp and 18pp typescript draft lecture notes with corrections (1988), etc.

Milstein had been previously invited to lecture at Darwin College in April 1983 and at the Anniversary Symposium, 21 July 1989.

D.42 Lecture at Tumorzentrum Rhein-Main e.V, Frankfurt, Germany, 22 April 1988

Correspondence and arrangements for Milstein and Thomas Boehm who was to accompany him.

D.43 ‘Antibodies: Paradigm of Molecular Recognition’, ‘Frontiers of Medicine’ Lecture in Foundations of Medical Science series, McGill University, Montreal, Canada 17 October 1988

Correspondence.

This was a ‘…proposed collaborative venture between Cambridge and McGill’ culminating in Milstein’s lectureship event.


Correspondence, some in Spanish, and 2pp draft lecture notes.


See also D.141.

The Croonian Lecture was repeated at the Sir William Dunn School of Pathology, Oxford, 1 May 1989 and Milstein was also asked to repeat it at the British Association meeting, University of Sheffield, 11-15 September 1989.

D.45 Royal Society

Correspondence; notice; 24pp typescript ‘Original text…’;
Lectures and publications, D.1-D.152

typescript with manuscript corrections; figures, references etc.

Brief correspondence.

D.47 ‘Croonian Lecture’. Contents of Milstein’s folder so inscribed.  1989
Draft lecture notes: 12pp manuscript, and 36pp typescript with manuscript corrections.
For Sheffield.

D.48 Spiral bound softback notebook of draft lecture notes inscribed ‘Spanish Lectures’  1989-1998
Used from the front and from the back 10 October 1989-20 May 1998.
Includes Conferencia Menendez Palayo, Seville, Spain, 10 October 1989 (untitled).

Correspondence, references for inclusion in the publication ‘Leucocyte Typing IV’, Oxford University Press, query sheet, and proof amendments.

D.50 ‘Notes for lecture in Miami January 1990’  1990
15pp typescript draft lecture notes annotated ‘Master copy’

D.51 Lecture during visit to Istituto di Ricerche di Biologia Molecolare, Rome, Italy, 3-6 October 1991  1991
Correspondence re arrangements.
The lecture was planned for 4 October to coincide with the proposed EMBO workshop, organised by IRBM.
Lectures and publications, D.1-D.152


Correspondence including notices, and 9pp typescript draft lecture notes. 1990-1991

D.53  Edward K. Dunham Lecture Series on ‘Antibodies: How they are made and how to make them’, Harvard Medical School, Boston, Massachusetts, USA, 20-25 April 1992

Correspondence, draft typescript lecture notes with manuscript corrections: 16pp, 14pp, and 12pp respectively; 2pp manuscript draft lecture notes, 2pp ‘Synopsis of 1992 Dunham Lectures’, and 4pp ‘Closing Remarks…’.


D.54  ‘Monoclonal antibodies - from patents to patients’, talk to Bloomsbury Molecular Biology and Medicine Dining Club, University College London, 20 May 1993

Correspondence. 1993

D.55  Peter Gorer Lecture given ‘at the beginning of the BSI Annual Congress in Harrogate’, Yorkshire, December 1994

Brief correspondence, 7pp typescript and 1p manuscript draft lecture notes. 1994

D.56  Lecture at the Cambridge 41 Club, Jesus College, Cambridge, 14 February 1996

Brief correspondence and 10pp typescript draft lecture notes titled ‘Notes for after dinner speech’.

The Cambridge 41 Club was part of the Association of Ex-Round Tablers’ Clubs. 1995-1996
### Lectures and publications, D.1-D.152

|      | /... Correspondence re arrangements. |  |

|      | Brief correspondence. Milstein declined the invitation. |  |

| D.59 | ‘Opening remarks, Royal Soc. 2-March 1998’ | 1998 |
|      | Contents of folder so inscribed: 4pp typescript draft lecture notes with manuscript corrections. |  |

| D.60 | ‘Hypermutation and the maturation of the antibody response’, 3rd Georges Köhler Lecture at the Max Planck Institut für Immunobiologie, Freiburg, Germany, 18 January 1999 | 1999 |
|      | Letter of invitation, noting that ‘We have initiated this lecture to keep awake the memory of Georges in Freiburg’, 1998, and notice including photograph of Milstein, and of Milstein with Köhler. |  |

| D.61 | ‘China’ | N.d. |
|      | 6pp manuscript draft lecture notes on ?antibodies. |  |

| D.62 | ‘Scandinavian meeting’ | N.d. |
|      | 6pp manuscript draft lecture notes. |  |

| D.63 | ‘Bridges - Sussex’, ‘Meetings on Clinical genetics’ | N.d. |
|      | 13pp draft lecture notes mostly typescript with manuscript corrections, 3pp references, 1p figure legends, and 1p notes [?list of accompanying slides]. ‘Bridges’ possibly refers to the ‘Light-heavy bridge’ |  |
Lectures and publications, D.1-D.152

mentioned in the lecture notes.


Manuscript draft letter (fax) to C. Yung Yu, and 6pp typescript draft lecture notes with manuscript corrections, with 1p figures.

D.65  ‘Speech 25th Anniversary’  N.d.

7pp typescript draft lecture notes for ‘MRC Meeting’.

D.66  ‘Notes for plenary lecture at Cytology Workshop’  N.d.

13pp typescript draft lecture notes with manuscript corrections n.d.

D.67  ‘Notes for Lectio Magistralis, Bahía Blanca (European School of Oncology)’, Argentina  N.d.

25pp manuscript and typescript draft lecture notes, the cover sheet is inscribed ‘B[ahia]. Blanca’.

D.68  ‘Notes for “Darwin Discovery” lecture’ amended, with first page marked ‘Changes for Canada’  N.d.

21pp manuscript and typescript draft lecture notes with corrections.

D.69  ‘Lectures’. Contents of Milstein’s folder so labelled  N.d.

Miscellaneous untitled typescript and manuscript draft lecture notes, including 6pp typescript in Spanish.

D.70  17pp manuscript draft lecture notes and 2pp references, and 12pp notes on proceedings  N.d.

D.71  8pp miscellaneous draft manuscript lecture notes.  N.d.
Lectures and publications, D.1-D.152

D.72
2pp draft manuscript letter from Milstein to ‘Andres’, re organisation of an untitled meeting as to choice of lecturers. N.d.

D.72A
33pp unidentified draft manuscript lecture notes N.d.

D.73-D.130
DRAFTS AND PUBLICATIONS 1959-2002

D.73-D.121 Drafts
D.122-D.129 Editorial correspondence and other material
D.130 Bibliography

D.73-D.121 Drafts 1959-ca 2002 and n.d.

A chronological sequence of material relating to publications or to the intention to publish, ranging from rough notes to fully-prepared drafts. Where applicable reference has been made to Milstein’s Bibliography at D.130 in the form Bibliog. ...

D.73
‘Inhibicion y activacion de la DPN aldehido deshidrogenasa de levadura por iones metalicos’ with A.O.M Stoppani. Bibliog. 9, 1959


Copy of paper (part missing); typescript draft papers in English ‘Mechanism of activation of aldehyde dehydrogenase by alkali metal ions’ and ‘Effect of metal ions on the activity of yeast DPN-aldehyde dehydrogenase’, based on or partial translations of Bibliog. 9; figures; brief correspondence (in Spanish).

D.74
‘The “ping-pong” mechanism of phosphomutases’, 1964
Societies and organisations, E.1-E.45

annotated ‘C. Milstein - unpublished (1964)’

8pp typescript with manuscript corrections, and 1p figures.

Contents of folder so inscribed: 11pp manuscript draft paper with 5pp tables and figures, including photographs for plates, n.d. [1965].

Annotated by Milstein ‘Written about the time of 1st International Congress of Immunology’?
9pp manuscript draft paper, 3pp calculations and readings, and photographs for plates and figures.
Photographs for this item and for D.77 were originally found intermingled.

2pp copy manuscript draft paper with 1p references and 1p figures; 15pp typescript draft paper, with photographs for plates and figures.
Photographs for this item and for D.76 were originally found intermingled.

Brief correspondence.

Correspondence; forms (mostly fax photocopies); 11pp typescript draft with 1p figures and 3pp references; photograph for plate; proofs.
Societies and organisations, E.1-E.45

An updated article entitled ‘With the benefit of hindsight’ was requested on the occasion of the 25th Anniversary of ‘the Köhler and Milstein paper’.

D.80


14pp typescript with 1p summary, 1p references, and 13pp tables and figures; and 10pp manuscript draft research data.

D.81
Citation Classic: ‘The First “Useful” Hybridoma’, with G.Galfrè, J.C. Howard et al, Bibliog. 109, 1977. Includes correspondence, 2pp typescript copy of commentary with 1p references, ?as submitted, and two earlier typescript drafts, one with manuscript corrections.

Milstein was invited in 1986 to prepare a brief commentary on the paper for publication as a Citation Classic. Milstein corresponded with Howard and they jointly wrote the commentary which was then submitted by Milstein.

D.82

2pp typescript draft with 1p references and 1p manuscript draft intercalated.

D.83

22pp typescript draft copy, figures including photographs for plates, research data and notes.

D.84

Brief correspondence, 2pp summary, 15pp typescript draft, 2pp references, 24pp tables and figures, including
photographs for plates.

The paper appears to have been originally submitted to the *European Journal of Immunology* under the title of ‘Distribution of three murine cell surface differentiation antigens identified by monoclonal antibodies’, 26 June 1978. It was rejected and Milstein initially suggested an amended title ‘The differential expression of murine leukocyte surface antigens identified by monoclonal antibodies’, before resubmitting it under the title above.


Brief correspondence, typescript drafts: 6pp; 6pp with 4pp figures, 2pp references; loose figures including photographs for plates, 1982.

The initial title appears to have been ‘Spontaneous translocations and diversification of DNA rearrangements in cultured myelomas’, but it also appears under the alternative title ‘The immunoglobulin heavy chain gene in IF2 cells is associated with non-immunoglobulin DNA’. None of the three titles appears in Biblog.


Letter from Dunnick enclosing the referee’s rejection of the paper; 1p Milstein’s notes; 9pp copy typescript draft with 1p abstract, 5pp references and 9pp figures including photographs for plates.


4pp copy article including abstract, with 1p references and 3pp figures. Annotated in pencil on title page ‘Withdrawn 7/3/[19]83’.

Cambrosio wrote to Milstein asking for his comments on ‘the revised version’ of the Foreword to ‘our book’.


D.89 Untitled 2pp typescript with manuscript corrections annotated ‘Unpublished part of discussion to Nature paper (Berek et al 1985)’

The paper referred to is probably Bibliog. 210, 1985.

D.90 ‘Molecular events during the maturation of the immune response to oxazolone’, with C. Berek and G.M Griffiths. Bibliog. 210, 1985


The original heading ‘Draft of New Scientist article (first section) (17.3.[19]87)’ and title ‘The impact of monoclonal antibodies’ have been crossed out and replaced with the above.

8pp and 9pp typescript drafts, with manuscript corrections.


Two 17pp typescript drafts with 1p summary, 4pp figures, and 3pp references.

One annotated ‘Submitted Biochemical J[ournal]. 11.3.88, and the other marked similarly but with the addition of ‘rejected’.

C. Milstein
NCUACS 146/3/06

Societies and organisations, E.1-E.45

13pp typescript draft with manuscript corrections and additions, with manuscript annotations 'Draft of paper dictated approx. 4.4.90' and 'Draft paper 10.4.90'.

D.94

Correspondence and Milstein’s amendments to the paper prior to publication.

D.95

6pp manuscript draft.

This may be an earlier draft of ‘Somatic hypermutation of immunoglobulin k may depend on sequences 3’ of Ck and occurs on passenger transgenes’, Bibliog. 263, 1991. A reference is also made to ‘Our previous report (Sharpe et al 1990) which appears to be ‘Lack of somatic mutation in a k light chain transgene’, Sharpe et al, Bibliog. 254, 1990.

D.96

Correspondence with Winter and Nature re corrections, referee review and proof figures; proofs with corrections.

D.97

Correspondence including with A. Klug, and 1p notes.

This may be an earlier draft of or related to the paper ‘A progressive deposition of paired helical filaments (PHF) in the brain characterises the evolution of dementia in Alzheimer’s disease’, with R. Mena et al, Bibliog. 267, 1991.

D.98
‘Russell bodies: A general response of secretory cells to synthesis of a mutant immunoglobulin which can neither
Societies and organisations, E.1-E.45

exit from, nor be degraded in, the endoplasmic reticulum’, with C. Valetti et al. Bibliog. 269, 1991.

Incomplete 14pp typescript draft, annotated ‘modified 4.1.[19]91’, with manuscript corrections and additions.

D.99


Letter from Nature with 1p referee comments, and Milstein’s reply, 1992.

D.100


D.101

‘Affinity maturation leads to differential expression of multiple copies of a k light-chain transgene’, with F. Lozano et al. Bibliog. 275, 1993

12pp and 15pp typescript drafts annotated ‘2nd’ and ‘3rd’ respectively, with manuscript corrections and additions.

D.102


Letter and fax from P. Kennewell, 3pp manuscript and 1p typescript draft abstracts, 1994.

Milstein was asked to submit an abstract for a booklet to be produced following the 3rd UK Table Ronde meeting, Worcester College, Oxford, 14-15 July 1994.

D.103

Proposed article for the Federation of American Societies for Experimental Biology Journal, 1994

Correspondence.

Milstein was invited to write a review article to mark the 10th Anniversary of his Nobel Prize ‘for the invention of
monoclonal antibodies’. He replied that ‘in principle’ he
would be ‘delighted to do so’, but asked to delay his
decision as ‘1995 will mark the 20th Anniversary of the
publication of the Nature paper’ (probably Bibliog. 97,
1975) and that he would ‘try to meet one or both’.

D.104 Proposed volume of Milstein’s Selected Papers for World
Scientific Series on Twentieth Century Biology.

Correspondence with World Scientific Publishing Co. Ltd,
1994-1995, and later correspondence 1998 re suggested
collected volume of Wolf Prize Laureates.

Milstein’s apologised for ‘the enormous delay’ concerning
his ‘previously agreed volume of collected papers’, saying
it was due largely to health reasons and ‘I hope these
problems are over’.

D.105 ‘Strand discrimination of hot spots of hypermutation of
antibody genes; mith [sic] or reality?’ Not listed in Bibliog.

4pp typescript draft, annotated ‘Notes for paper (approx.
1997) CPM’, with separate annotation ‘1998?’ crossed
out. Post-it note states ‘CMS Papers in prep[aration].’

D.106 ‘The hybridoma revolution: an offshoot of basic research’,
Bibliog. 304, 1999

Correspondence; 17pp typescript draft with 1p summary,
footnotes, figures and references; photographs for plates;
10pp typescript draft including summary, with 1p footnotes
and 1p figures; two MFD-2HD 3-inch computer disks,
labelled ?’Hill: p[age]5 Fig.1’ and ‘César Endnote for refs.’
respectively.

Milstein was invited to contribute a ‘Roots’ article to
BioEssays re his and G. Köhler’s development of
monoclonal antibody technology.


Email from G. Winter to Milstein, 3 March 2000, with
detailed comments and suggestions on paper of
Milstein’s.

3pp print out.
Societies and organisations, E.1-E.45

D.108

‘AID-GFP chimeric protein increases hypermutation of ('antibodies' crossed out) Ig genes with no evidence of nuclear localisation', Milstein et al. Bibliog. 314, 2002

12pp typescript draft including 1p abstract, with manuscript corrections, 3pp references, and 9pp figures and tables, annotated ‘Uncorrected [proof]’.

c. 2002

D.109

‘Centro de Biologie Molecular’

Contents of Milstein’s folder so inscribed: 1p manuscript draft commencing ‘Prepare a new File: Centro de Biologie Molecular’ and including notes on ‘Tubulin - Microtubals project’; 1p manuscript notes (?for the Severo Ochoa lectureship), in English and Spanish.

N.d.

D.110-D.118

‘Collaboration’

Contents of Milstein’s original folder so inscribed: correspondence, some in Spanish, with proofs and paper drafts, relating to collaborative work on publications.

The material was subdivided by plastic wallet by name of collaborator and this arrangement has been followed in the catalogue entries.

ca 1977-1999

D.110

Agur, Z.

1991

Correspondence; research data and graphs; 6pp research proposal ‘Formal methods for predicating treatment efficacy of genetically varying pathogens: HIV-1 and Trypanosomiasis’; 1p talk summary.

D.111

Brownlee, G.G.

1999


D.112

Cotton, R.G.H.

ca 1977
Societies and organisations, E.1-E.45

‘The Road to Monoclonal Antibodies’, paper by R.G.H. Cotton. There is no evidence that it was a collaborative paper with Milstein, but it appears to have been corrected by him.

11pp typescript draft with manuscript corrections, 5pp figures and tables, and 4pp references.

D.113 Klug, A. 1988

3pp letter from Klug stating ‘There is no question about the importance of the antibody 423 and no question of your name (& Richard Pannell) ever being omitted’, and continuing with a discussion on three proposed collaborative papers by R. Pannell, Klug, Milstein et al (possibly relating to Bibliog. 238, 1988), 19 February 1988.


The collaboration was initially a personal one between Knowles and Milstein and then became a formal collaboration between their respective laboratories.

Correspondence, and copy of Knowles’ own collaborative paper, 1985-1990.

D.115 Kozak, C. 1987-1990

Re ‘The mouse CD1 genes map to chromosome 3’, ca 1988 and ‘Chromosomal localisation of mCD1’, ca 1990; both with A. Bradbury and Kozak. Not listed in Bibliog.

These papers are ?possibly early drafts of ‘Chromosomal localization of Cd1d genes in the mouse’, A. Bradbury et al. Bibliog. 262a, 1991

Correspondence; typescript drafts of 1988 and 1990 papers, that for 1988 with manuscript corrections.

D.116 Mandy, W.J. 1986-1989

Correspondence re proposed collaborative paper ‘on rabbit CD1’, and research data.

Includes comments on an earlier paper of Milstein’s, etc.
Societies and organisations, E.1-E.45

D.117 Meares, C. 1992

Correspondence re ‘affinity column project’, ‘plans to make anti-DOTA antibodies’, patents etc; research data and earlier paper by Meares (1985).

D.118 Streilein, J.W. 1988-1989

Correspondence re proposal by Milstein for ‘a collaborative project’ with Streilein and A. Bradbury.

D.119 Miscellaneous draft manuscript notes, calculations and figures, seemingly appertaining to papers in preparation ca 2002 and n.d.

D.120 ‘Notes Re Manuscripts’ file. N.d.

Contents of Milstein’s folder so inscribed: 1p manuscript notes re ?book review, small manuscript card note ‘I could live without honour but not with a dirty conscience’, ‘Rabi Nietslim Raséc’.

D.121 Miscellaneous draft manuscript notes and letter drafts, seemingly appertaining to papers in preparation N.d.

D.122-D.129 Editorial correspondence and other material 1970-ca 2001

Includes a little editorial correspondence arranged alphabetically by journal or publisher, and sundry documents found with publications and drafts.

D.122 Academic Press Ltd 1989

Brief correspondence re corrections to Milstein’s foreword to ‘the Ig book’ (Immunoglobulin Genes).

D.123 Buenos Aires Academy of Sciences ca 1995
Societies and organisations, E.1-E.45

Letter from Milstein to A. Gonzalez re graph [not found], which 'illustrates...the sudden surge of Spanish Sciences in the last 10 years'.

D.124, D.125  
*Nature*  
1987-1990

D.124  
Paper ‘on chromosome assignment of thymocyte CD1 antigen genes’ by D. Albertson, initially not accepted for publication but re-submitted with Milstein as a co-author

Includes discussion as to Milstein’s right to be named as a co-author.

D.125  
Discussion between Milstein and R. Sitia re collaborative paper ‘Secretion of immunoglobulin M assembly intermediates in the presence of reducing agents’

Includes 4pp typescript draft paper with 7pp figures and 1p references.

D.126  
*Science* et al.  
1981-1989

Discussions with N. Wade of *Science* magazine, and others, *re* editorial points of controversy.

Correspondence including 5pp typescript draft article by Wade with Milstein’s manuscript corrections, photocopy of the published article, and 3pp manuscript draft notes.

D.127  
Paper by D.S. Secher  
ca 1979

Paper on ‘W3/13, a rat T-cell antigen, is present on antibody-secreting cells’, annotated by Milstein as ‘unpublished’.

D.128  
Miscellaneous comments and notes  
ca 2001

D.129  
‘Journals’  
1970-1997

Contents of Milstein’s folder so inscribed.

Includes editorial correspondence *re Immunological Reviews, European Journal of Immunology* and *European*
Societies and organisations, E.1-E.45

Journal of Biochemistry.

D.130 Bibliography 2002


D.131-D.152 SLIDES ca 1966-1987

Photographic slides for lectures.

D.131 ‘PGM’. ca 1966

Yellow card ‘Kodaslide’ box.


Grey plastic slide box.

D.133 Untitled ca 1970s-1980s

Orange plastic box.

Some slides have MRC Cambridge laboratory labels.

D.134-D.137 Sets of slides in clear plastic wallets within large ringbinders

D.134 ‘Sitia’ ca 1970-1980s

Reference to ?Robert Sitia.

Including ‘EMBO’ slides.

Societies and organisations, E.1-E.45

See also D.138.


D.137 Untitled ca 1979-1987 and n.d.
Includes colour portrait of Milstein.

D.138 Untitled N.d.
Contents of 4 loose clear plastic slide wallets found with D.135.

D.139 Wooden hinged box with 6 loose slide frames ca 1976-1977 and n.d.

D.140 ‘C. Milstein’ ca 1976-1981
Red plastic slide box.

D.141 ‘Croonian Etc’ N.d.
Red plastic wallet.
See D.45-D.47.

D.142-D.147 Sets of slides found in coloured plastic wallets

Blue plastic wallet.

Red plastic wallet.

D.144 Untitled N.d.
Societies and organisations, E.1-E.45

Blue plastic wallet.

D.145  '?'mRNA and [?]CDMA'  ca 1973-1977 and n.d.
       Dark green plastic wallet.

       Green plastic wallet.

D.147  Untitled  N.d.
       Black plastic wallet.

D.148-D.150  Three black plastic wallets marked 1, 2, and 3 respectively
              All labelled 'Dr César Milstein' with the laboratory address.

D.148  '1'  N.d.

D.149  '2'  N.d.

D.150  '3'  ca 1982 and n.d.

D.151  Untitled  ca 1983
       Yellow plastic Kodak slide box.

D.152  'Dr. Milstein Wedn[esday] 11th. 1 to 29'  N.d.
       Black plastic wallet.
<table>
<thead>
<tr>
<th>E.1-E.5</th>
<th>BASEL INSTITUTE OF IMMUNOLOGY</th>
</tr>
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<tbody>
<tr>
<td>E.6</td>
<td>BIOCHEMICAL SOCIETY</td>
</tr>
<tr>
<td>E.7</td>
<td>BRITISH SOCIETY FOR IMMUNOLOGY</td>
</tr>
<tr>
<td>E.8</td>
<td>CANCER RESEARCH INSTITUTE</td>
</tr>
<tr>
<td>E.9-E.18</td>
<td>CELLTECH LTD</td>
</tr>
<tr>
<td>E.19</td>
<td>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FRANCE</td>
</tr>
<tr>
<td>E.20</td>
<td>CENTRO DE ESTUDIANTES DE LA FACULTAD DE CIENCIAS EXACTAS Y NATURALES, ARGENTINA</td>
</tr>
<tr>
<td>E.21-E.23</td>
<td>EUROPEAN NETWORK OF IMMUNOLOGY INSTITUTES</td>
</tr>
<tr>
<td>E.24</td>
<td>FEDERATED BIOCHEMICAL RESEARCH INSTITUTE OF THE HOPITAL SAINT-LOUIS</td>
</tr>
<tr>
<td>E.25</td>
<td>FUNDACION CAMPOMAR, ARGENTINA</td>
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<tr>
<td>E.26</td>
<td>FUNDACION CONCHITA RABAGO DE JIMENEZ DIAZ, SPAIN</td>
</tr>
<tr>
<td>E.27-E.35</td>
<td>FUNDACION JUAN MARCH, SPAIN</td>
</tr>
<tr>
<td>E.36</td>
<td>FUNDACION SALES, ARGENTINA</td>
</tr>
<tr>
<td>E.37</td>
<td>INSTITUTO TECNOLOGICO DE CHASCOMUS, ARGENTINA</td>
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</table>
Societies and organisations, E.1-E.45

E.38  MERCK SHARP & DOHME, USA

E.39-E.41  ROYAL SOCIETY

E.42  SAVE BRITISH SCIENCE

E.43  THIRD WORLD ACADEMY OF SCIENCES

E.44  WELLCOME TRUST

E.45  WORLD HEALTH ORGANISATION

E.1-E.5  BASEL INSTITUTE OF IMMUNOLOGY  1993-2002

Correspondence and papers chiefly re meetings of the Institute’s International Scientific Advisory Board, 1994-1998 and 2002.

Milstein joined the Scientific Advisory Board in 1993.

E.1  1993-1994

E.2  1994-1995

Includes Milstein’s manuscript notes.

E.3  1995-1996

E.4  1996-1997

E.5  1998, 2002

Includes Milstein’s manuscript notes.
Consultancies and commercial, F.1-F.23

E.6  BIOCHEMICAL SOCIETY  1985-ca 1998

Milstein's contributions to the Society's 75th Anniversary in 1986, and Honorary Membership of the Society.

E.7  BRITISH SOCIETY FOR IMMUNOLOGY  1985-1995

Correspondence and papers re Milstein's Honorary Membership of the Society.

E.8  CANCER RESEARCH INSTITUTE, USA  1987-1989

Correspondence re Milstein's membership of the Scientific Advisory Council.


Milstein joined the Science Council of Celltech on its launch in 1980. He was not a paid consultant, but the company made donations to MRC and Laboratory funding bodies.

E.9  Launch of Celltech  1980

E.10  Correspondence re membership of Celltech Science Council  1981

E.11  Celltech policy etc, January  1981
Consultancies and commercial, F.1-F.23

E.12 Chiefly re MRC/Celltech collaboration. 1981
E.13 Programmes and agendas for Celltech Science Council meetings 1981
E.14 Corporate plan, policy documents etc 1981
E.15 ‘Draft notes describing each of the projects under consideration’ 1981
E.16 Miscellaneous correspondence January-April 1981
E.17 Miscellaneous correspondence May-November 1981
E.18 Staffing etc. 1980-1981

Brief correspondence, some in French, re Milstein’s appointment as Président du Comité Scientifique de l’UPR 43 ‘Rétrovirus et Rétrotransposons des Vertébrés’.

E.20 CENTRO DE ESTUDIANTES DE LA FACULTAD DE CIENCIAS EXACTAS Y NATURALES, ARGENTINA 1992

Brief correspondence.

Consultancies and commercial, F.1-F.23

Correspondence and papers re the establishment of the Network, Milstein's election as a member, Network activities, etc.

E.21  1985-1986

E.22  1986-1987

E.23  1988-1992

E.24  FEDERATED BIOCHEMICAL RESEARCH INSTITUTE  1993
      OF THE HOPITAL SAINT-LOUIS, FRANCE

Brief correspondence re Milstein's acceptance of invitation to serve on the External Committee of the Institute.

E.25  FUNDACIÓN CAMPOMAR, ARGENTINA  1987-1992


See also H.37-H.40.

E.26  FUNDACIÓN CONCHITA RABAGO DE JIMENEZ DIAZ,  1986-1987
      SPAIN

Brief correspondence and papers, mostly in Spanish, re Milstein's election to the Executive Committee of the Leccion Conmemorativa Jimenez Diaz.
Consultancies and commercial, F.1-F.23


Correspondence and papers chiefly assessment of workshop proposals sent to the Scientific Council of the Fundación.

Some in Spanish.

E.27 1995-1996

E.28 1996 (1)

E.29 1996 (2)

E.30 1996-1997

E.31 1997

E.32 1997-1999

E.33 2000 (1)

E.32 2000 (2)

E.35 2000-2001

E.36 FUNDACIÓN SALES, ARGENTINA 1993-1994
Consultancies and commercial, F.1-F.23

Correspondence, incoming in Spanish, outgoing in English, re Milstein's concern about possible misrepresentation in the press; and advice on membership of advisory Scientific Committee.

Includes photocopy Argentine press cuttings including photograph of Milstein.

E.37 INSTITUTO TECNOLOGICO DE CHASCOMUS, ARGENTINA 1988-2000

Correspondence, mostly in Spanish, re Milstein's work promoting the Institute, culminating in his joining its Scientific Council.

Milsteins writes, his membership 'I presume will formalise the type of assistance I have already been giving to that project'.

E.38 MERCK SHARP & DOHME, USA 1988-1990

Correspondence and papers re Milstein's support for the Merck Sharp & Dohme Seminar Series at the MRC.

Milstein was invited to join the Scientific Advisory Committee for the Series in 1988.


Milstein was elected to the Fellowship of the Royal Society in 1975.

E.39 General correspondence and papers 1977-1997

E.40 Sectional Committees 1978-1990
Consultancies and commercial, F.1-F.23

CLOSED UNTIL 2041

E.41 Other recommendations 1990-1997
CLOSED UNTIL 2048

E.42 SAVE BRITISH SCIENCE SOCIETY 1986-1987

Letter from Denis Noble of the Society to Milstein asking for his continued support, requesting him to join the Society and inviting him to become a member of the Advisory Council, 17 December 1986.

E.43 THIRD WORLD ACADEMY OF SCIENCES 1985-2001

Recommendations.

Milstein was an Associate Founding Fellow of TWAS (see A.59).
CLOSED UNTIL 2052

E.44 WELLCOME TRUST 1985-1991

Papers of the Biochemistry and Cell Biology Panel.

CLOSED UNTIL 2042

E.45 WORLD HEALTH ORGANISATION 1985-1992

Correspondence and papers re Milstein’s membership of the Expert Advisory Panel on Immunology.

Milstein was a member of the Panel 1985-1993.
Consultancies and commercial, F.1-F.23

SECTION F
CONSULTANCIES AND COMMERCIAL, F.1-F.23 1976-2002

F.1-F.4 ANTISOMA LTD
F.5, F.6 CAMBRIDGE ANTIBODY TECHNOLOGY (CAT)
F.7, F.8 IGENEON LTD
F.9-F.12 IMUTRAN LTD (FORMERLY ANIMAL RESOURCES LTD)
F.13-F.18 SERA-LAB
F.19-F.23 'INDUSTRIAL LIAISON (MISC)'

F.1-F.4 ANTISOMA LTD 1988-1995

Correspondence and papers re Milstein's involvement in Antisoma Science Council activities.

Includes press cuttings, consultancy agreement (F.2), Milstein's Presidential address (F.3), and Science Council Meeting Reports of 1990 and 1991.

Milstein was a consultant of Antisoma. He served on the Science Council of the company from 1990 (as President), continuing to retirement in 1995. He gave the Presidential address at the official Antisoma company launch on 27 November 1990.

F.1 1988-1990

F.2 1991

Correspondence.
Correspondence, H.1-H.187

F.3  1991

F.4  1992-1995

F.5, F.6  CAMBRIDGE ANTIBODY TECHNOLOGY (CAT)  1988-2001

Correspondence and papers re Milstein’s service on the CAT Scientific Advisory Board, including the company’s foetal cell antibody programme.

Milstein served on the Scientific Advisory Board of CAT from 1993 or earlier, until 2000. In lieu of his fee the company made payments to the Max Perutz Fund.

F.5  1988-1993


F.6  1994-2001

F.7, F.8  IGENEON LTD  2000-2002

Correspondence and papers re Milstein’s service on Igeneon Scientific Advisory Board and related matters.

Igeneon was ‘an Austrian based company interested in immunotherapy of cancer, centred in cancer vaccines’. Milstein served on the Scientific Advisory Board from 1 February 2001 onwards.

F.7  2000-2001

Includes correspondence re consultancy agreement.
Correspondence, H.1-H.187

F.8 2001-2002
Includes negative publicity for the company and Milstein’s response.

F.9-F.12 IMUTRAN LTD (FORMERLY ANIMAL RESOURCES LTD) 1988-1997

Correspondence and papers re Milstein’s service on the Imutran Scientific Advisory Board.
Includes papers for meetings, some annotated by Milstein.

F.9 1988-1989

F.10 1990-1991

F.11 1992
Includes documents re administration of the Max Perutz Fund and Milstein’s contribution of Imutran shares thereto.

F.12 1993-1997


Correspondence and papers re Milstein’s commercial collaboration with Sera-Lab to produce antisera from his laboratory hybrid cell lines, monoclonal antisera, etc. and subsequent contract between the Medical Research Council and Sera-Lab.
Includes Milstein’s various comments and suggested amendments to the Sera-Lab products catalogue, and requests from other interested organisations concerning distribution of research reagents and related research matters.
Correspondence, H.1-H.187

F.13  1977-1978
F.14  1979
F.15  1980
F.16  1981
F.17  1982-1984, 1988
F.18  Correspondence from others re supply of anti-ig etc  1977-1979
Also includes ‘Sera Lab credits’ etc.
Correspondence and papers primarily re the Laboratory of Molecular Biology Industrial Liaison Committee and Medical Research Council ‘policy for research supported by industry or other external sources’.
Milstein served on the Laboratory of Molecular Biology Industrial Liaison Committee from 1989.
F.19  1989
Chiefly Industrial Liaison Committee.
F.20  1990
Chiefly Industrial Liaison Committee.
Correspondence, H.1-H.187

F.21 1991-1993
Chiefly Industrial Liaison Committee and background material re commercial exploitation of university research.

F.22 Material re MRC and Stratcyte Licence 1990

F.23 Invention specification: ‘Single Domain Ligands, Receptors comprising such Ligands, Methods for their Production, and Use of said Ligands and Receptors’ N.d.

71pp typescript + figures.
Milstein’s attendance at conference and meetings was much sought after, particularly as a Nobel laureate, and especially in South America. He made many visits, usually with his wife, Celia, who sometimes participated as a scientist in her own right.

The material includes letters in Spanish and French.

G.1 Commission of Molecular Biophysics of the International Union of Pure and Applied Biophysics Symposium, International Laboratory of Genetics and Biophysics, Naples, Italy, 8-11 September 1965

Letter re expenses; published account of the symposium discussions on ‘Biological Systems at the Molecular Level’, *Nature*.

G.2 Antibody Workshop, Weizmann Institute of Science, Rehovoth, Israel, 21-24 March 1966

Correspondence re arrangements, including tentative programme and list of participants, 1965-1966.

G.3 Study Group on Immunology, Tunbridge Wells, Kent, 1-3 March 1966

Programme and list of participants including Milstein.

G.4 Royal Society Discussion Meeting ‘on the subject of antibody structure and function’, London, 2 June 1966

Correspondence including reference to Milstein contributing a paper on the ‘Chemical structure of light chains’.

G.5 Gordon Research Conference on ‘The Cellular Aspects of Immunology’ (‘Cell Structure and Metabolism’), Kimball Union Academy, Meriden, New Hampshire, USA, 27 June-1 July 1966
Correspondence, programme, conference application and travel arrangements.

G.6 Medical Research Council Colloquia, Thursdays 'in the lecture room', Laboratory of Molecular Biology, University of Cambridge, ca. 1966.

Programme including reference to Milstein's lecture on 25 March on 'Interchain disulphide bridges in Bence-Jones proteins and gamma-globulin B-chains'.

c.1966


1p typescript abstract of paper on 'Studies on the Variability of Immunoglobin Sequence', by Milstein et al.

1967

G.8 British Society for Immunology Summer Meeting, Cambridge, 30 June-1 July 1967

Programme.

Milstein et al contributed a paper on 'Chemical studies of Fc and Fs Fragments'.

1967

G.9, G.10 Meetings, July and September 1968

This was found kept together in the same folder, the same organiser being involved in arrangements for both events.

1967-1968

G.9 5th Conference of the Federation of European Biochemical Societies (FEBS) Meeting and Symposia, Prague, Czechoslovakia, 16-20 July 1968.


Milstein was invited to give a lecture on (his own proposed title) 'Variability of immunoglobulin structure' at the 3rd symposium during the conference.

1967-1968

G.10 Biochemical Society Colloquium on 'Structural Differences in Polymorphic Proteins', University of Aberdeen, 19

1968
Correspondence, H.1-H.187

September 1968

Milstein was invited to contribute a paper on immunoglobulins. /...

Correspondence and provisional programme.

G.11

WHO International Reference Centre for Immunoglobulins meeting, Université de Lausanne, Switzerland, 19-23 August 1968

Correspondence.

Milstein was unable to attend but indicated that B. Frangione would attend in his place.

G.12

Primer Congreso Latinoamericano de Bioquimica Clinica, Mar del Plata, Buenos Aires, Argentina, 1-7 December 1968

Correspondence, some in Spanish, programme booklet, and 4pp notes (?on proceedings, some in Spanish), 1968.

G.13

NATO Advanced Study Institute, Minaki, Ontario, Canada, ?July, 1970

Letter and Milstein’s two sets of draft lecture notes 3pp and 9pp respectively.

Milstein seems to have given two lectures, on ‘Structure and function’ and on ‘The Evolution of the Ig molecule’. The second also seems to have been given by him previously at the ‘British Council Advanced Course on Immunology - Dept of Pathology - April 10th’ [1970].

G.14

‘Gausdal 1972’. ?Refers to 1st International Symposium on Immunology, Gausdal, Norway

7pp draft lecture notes, annotated ‘Gausdal 1972’.

G.15


Brief correspondence, 2pp typescript summary of
Correspondence, H.1-H.187

Milstein’s paper on ‘Somatic Cell Genetics of Antibody Production’, and programme.

G.16


Tentative programme, list of participants, list of conference organisers including Milstein, and 40pp lecture notes some annotated ‘Notes for INSERM meeting’, and 10pp notes on proceedings marked ‘INSERM’.

Milstein was a conference organiser. He lectured on ‘Expression of antibody by hybrid cells’ and chaired the afternoon session on the same day.

G.16A

Cold Spring Harbor Laboratory meeting on ‘Monoclonal antibodies against neural antigens’, New York, USA, 5-8 November 1980

2pp programme and 21pp abstracts, annotated by Milstein with manuscript comments and notes.

Abstracts include ‘Monoclonal antibodies against neurotransmitter substances’ by Milstein and A.C. Cuello, and the latter’s name appears as one of the speakers on 7 November. It is unclear whether Milstein actually attended.

G.17

Society for General Microbiology Cell Surfaces and Membranes Group Symposium on ‘Insertion and Secretion of Proteins through Membranes’, University of Cambridge, 9 April 1981

Letter with Milstein’s pencilled draft reply, 1980.

The Symposium was to be held in conjunction with the Society’s meeting. Milstein was invited to ‘chair the afternoon session of the Symposium and to give concluding remarks’.

G.18


Milstein and O. Burrone gave a paper on ‘The Modulation
Correspondence, H.1-H.187

of Expression of Cell Surface Antigens in Lymphoid Cells’.


Correspondence, programme and 2pp abstract.

Milstein and O. Burrone gave a paper on ‘The Modulation of Expression of Cell Surface Antigens in Lymphoid Cells’.


Correspondence including lists of participants, itinerary, and 2pp draft lecture notes.

Milstein offered to lecture on ‘this HLA story’, being a recent paper of his ‘just published’, instead of the originally proposed talk on ‘Mutants and variants of Myelomas and hybrid myelomas’.


Invitation including programme (no evidence of attendance).

G.22 Japanese Biochemical Society 2nd Japan-UK Joint Symposium of Biochemistry, Osaka, Japan, 10-13 October 1982

Correspondence re arrangements including 1p abstract and itinerary.

The Symposium was held jointly with the 55th Annual Meeting of the Japanese Biochemical Society. Milstein was one of the British delegates.

Milstein and O. Burrone gave a paper on ‘Monoclonal antibodies to study the effect of interferon on cell surface antigens’.
Correspondence, H.1-H.187

G.22A Commemoration Dinner, Fitzwilliam College, Cambridge, 13 April 1983

Correspondence. Includes details of Milstein’s dining and lunching privileges at the College as an Honorary Fellow.

G.23 General Motors Cancer Research Foundation 5th Anniversary Awards Ceremony and Dinner, Washington DC, USA, 15 June 1983

Brief correspondence including invitation and itinerary.

Milstein and his wife were invited with other previous prize winners.


Correspondence and 19pp notes.

Milstein’s ‘Notes for the Workshop on Leucocyte Antigens’ include an assessment of the themes, aims and issues raised in the first international workshop and those in the future.


Brief correspondence, programme and 2pp draft lecture notes.

G.26, G.27 Visit to Argentina, Spring 1984

G.26 Universidad de Buenos Aires, Argentina, ‘Programa Nacional en Biotecnologia e Ingenieria Genetica’, March/April, 1984

Correspondence including Nobel Prize congratulations. Some in Spanish.

On this occasion Milstein also accepted nomination as an
Correspondence, H.1-H.187

‘Academico correspondiente’ of the Argentine Academia Nacional de Ciencias Exactas, Fisicas y Naturales.

G.27 Correspondence re request for interview for Clarín newspaper, Buenos Aires, Argentina, ca May 1984

Brief correspondence and invitation.

Letter re expenses, itinerary (‘Oxford Meeting and Apothecary Soiree’), and sheet giving title of Milstein’s lecture, ‘Molecular events during the onset and maturation of the antibody response’.

G.29 Chinese Academy of Medical Science/Ontario Cancer Institute International Symposium on ‘Cancer: Perspective for Control’, Beijing, China, 18-21 August 1985
Correspondence, programme, itinerary, and pre-emptive Nobel Prize congratulations.
One of a limited number of foreign scientists invited, Milstein lectured in the ‘Lymphopoiesis and Immune Genes’ session, speaking on monoclonal antibodies.

G.30 Colin Syme Symposium on the New Biology, Walter and Eliza Hall Institute of Medical Research, University of Melbourne, Australia, 6-7 November 1985
Correspondence including programme and itinerary.
This symposium marked the Opening of the new Institute. It was conducted by the Prime Minister of Australia.
Milstein spoke on 'Immunology 1985'.

G.31 Invitation to Prime Minister’s Reception at 10 Downing Street, London, 19 November 1985
Invitation and reply.
Correspondence, H.1-H.187

Milstien’s secretary replied stating that Milstein was at present out of the country on business, and requested that the invitation be held open until his return shortly before 19 November.


Correspondence including list of participants, programme, and itinerary. Some in Spanish.

See also A.59.

G.33 Joint University of Naples and Cambridge University (Department of Pathology) International Symposium on ‘The Biological Significance of the Major Histocompatability Complex’, Sant’Agnello di Sorrento, Italy, 16-18 April 1986 1985-1986

Correspondence including programme, list of participants, and itinerary.

Milstien was invited to speak on a given subject, which he later replaced with his chosen subject ‘The Effect of L-Interferon on the Expression of Class I Genes’.


Correspondence, papers of organising committee, proposed programme and list of participants.

Milstien was on the organising committee. See C.138 for further correspondence.

G.35 Visit to Japan, October 1986 1985-1986

Correspondence including itinerary, 4pp draft lecture notes, report of visit, and Biofair programme.

Milstien visited Japan primarily to attend the 45th Annual Meeting of the Japanese Cancer Association, Sapporo Medical College, Hokkaido, 21-23 October, and to visit Kanazawa University, 27 October, and the Institute of Virus Research, Kyoto University, Kyoto, 28 October.
At the meeting in Sapporo, Milstein lectured on ‘Diagnosis and therapy with monoclonal antibodies and antibody-derived molecules’, ‘Immunoglobulin V gene diversity’, and ‘CD1 human thymocyte antigens: A new set of MHC-related genes’.

Milstein was also invited to attend and speak at the Bio Fair in Tokyo, 15-19 October 1986 but regretted he was unlikely to arrive in the country in time.

1st Congreso de Inmunologia del Centro de la Provincia de Buenos Aires, Olavarría, Argentina, 11-12 April 1987

Correspondence, some in Spanish, including itinerary and programme.

Milstein gave a lecture on ‘Anticuerpos Monoclonales. Aplicación actual y perspectivas’. He was President of the Congress and was joint chair for the first day.

There is also a reference in the itinerary to Milstein spending the day at the Pasteur Institut, Paris, France, 8 April 1987.


Milstein gave the plenary lecture at the Meeting on ‘the impact of immunochemical methods in cytometry’, and was co-organiser for the molecular immunology workshops.

Correspondence, 8pp draft lecture notes, 1p abstract, and Final Schedule and Scientific Program booklet.

Visit to Argentina, December 1987

European School of Oncology International Meeting on ‘Monoclonal Antibodies in Oncology’, University of Bahia Blanca, Argentina, 17-19 December 1987

Correspondence, some in Spanish, re proposed publication of the proceedings; 4pp draft lecture notes; programme.

Milstein was asked to chair the Meeting and to give the
Correspondence, H.1-H.187

opening lecture.

G.39 International Scientific Reunion, 17-20 December 1987, Bahia Blanca, Argentina

Correspondence in Spanish.

Milstein declined to attend the Reunion due to a prior engagement.

G.40 European Molecular Biology Organisation Workshop on ‘Processes of Molecular Evolution’, King’s College Cambridge, 4-6 July 1988

Brief correspondence including issues for debate, and list of invited participants.

Milstein was invited to participate and offered to speak on ‘Somatic evolution: The Darwinian nature of onset and maturation of antibodies’.

G.41 Discussion Meeting on Auto-Immune Disease, Marlow, Buckinghamshire, 8 October 1988

Correspondence, programme, list of participants, and 3pp notes on proceedings.

G.42 Visit to MRC Biostatistics Unit on the occasion of the Unit’s five-year review, Cambridge, 7 November 1988.

Invitation only.

G.43 ‘Cell Biology of Antigen Recognition’ Meeting to honour Ite (Brigitte) Askonas on the occasion of her retirement as Head of the Division of Immunology, NIMR, held at the Royal Society, London, 5-6 January 1989.

Correspondence, programme, 8pp draft lecture notes and 4pp earlier draft with corrections.

Milstein spoke on ‘Somatic evolution of the memory repertoire’ during the Session ‘On the Lifestyle of B Cells’ on 5 January.
Correspondence, H.1-H.187

G.44 Cambridge University Department of Pathology dinner, to be held after seminar given by Professor Basten during his visit to Cambridge, 10 March 1989

Invitation and note.

G.45 Commission of the European Communities Spontaneous Contractor Meeting on the 'Current Status of Collaborative Projects Involving Structure and Genetic Mutagenesis of Antibodies', Institut Pasteur, Paris, France, 5 June 1989

Correspondence including programme, list of participants, and 4pp draft lecture notes.

Milstein was an organiser of the Meeting and gave a presentation on 'Maturation of the anti-oxazolone response'.

G.46 19th Conference of the Federation of European Biochemical Societies, Rome, Italy, 2-7 July 1989

Correspondence including travel arrangements and 3pp draft lecture notes.

Milstein lectured at a meeting on 'The Organisation and Evolution of Genetic Information' on 3 July, held during the FEBS conference.

G.47 'Autumn Programme', University of Seville, Spain, ca late October 1989

Brief correspondence, some in Spanish and French, itinerary in relation to Milstein's trip to Paris directly from the Seville event (see G.48 below), and programme of the Paris trip.

Milstein suggested he talk on 'Anticuerpos como paradigma de la biologia del reconocimiento'.

G.48 50th Anniversary of the Centre National de la Recherche Scientifique (CNRS), Paris, France, 18-20 October 1989

Correspondence, some in French, programme, list of foreign participants invited, and 2pp notes on proceedings.
Correspondence, H.1-H.187

G.49 Swiss Society of Allergology and Immunology Annual Meeting on ‘Progress in monoclonal antibody technology’, Lausanne, Switzerland, 26-28 April 1990

Brief correspondence, programme, and 15pp draft lecture notes.

Milstein was joint chair of the Meeting, and gave an introductory talk on ‘Beyond Hybridomas’ on 27 April.


Correspondence including itinerary and arrangements, programme, 5pp draft lecture notes.

Milstein was asked to give the post-banquet lecture.

G.51 European Federation of Immunological Societies Meeting, Edinburgh, 10-12 September 1990

Correspondence mostly re organisation of the Meeting and speakers, including programme.

Milstein was asked to act as President of the Scientific Committee. He initially declined due to a very tight work schedule but later agreed. He co-chaired the session on ‘Immunoglobulins and B Cell Biology’.


Correspondence including tentative programme, list of participants, 5pp draft lecture notes.

Milstein spoke on ‘Evolution of Antibody Diversity’.

G.53 Nature Conference on ‘New Horizons in Immunology’, Boston, Massachusetts, USA, 15-16 November 1990

Correspondence and provisional programme.

Milstein chaired the Conference.
Correspondence, H.1-H.187

G.54 National Fund for Scientific Research, 7th Artois-Baillet Latour Health Prize Award, Brussels, Belgium, 6-8 February 1991.
Correspondence including itinerary.
Milstein was invited to participate in the international jury proceedings for the award nominations, and received a commemorative medal for his help therewith.

Invitation and Milstein’s reply.
In Spanish.
Milstein suggested he chair the symposium on monoclonal antibodies rather than three sessions (the original request), which he considered excessive.

Brief correspondence and preliminary programme.
Milstein was to speak on ‘In vitro and in vivo maturation of antibodies’, but had to cancel at the last minute due to ill-health.

G.57 Congreso Internacional de la Sociedad Argentina de Cancerologìa, on monoclonal antibodies, Buenos Aires, Argentina, 7-9 August 1991
Correspondence in Spanish including invitation (declined).

G.58, G.59 Visit to France and Italy, September-October 1991
The itinerary at G.58 lists visits to the Comité Scientifique de l’UPR 43 (‘J. Peries Lab’), Paris, 27 September; Institut
Correspondence, H.1-H.187

National de la Santé Médicale Phillipe Laudat Conference, Le Bischenberg Study Centre, ca 30 September-3 October; Istituto di Ricerche di Biologia Molecolare Lecture, Rome, 4 October.

G.58 Itinerary 1991

G.59 INSERM Philippe Laudat Conference on 'The variable gene repertoire of B and T cells: Development in normal and pathological conditions', Bischenbourg, Obernai, France, 29 September - 3 October 1991

Includes correspondence; programme including list of speakers and participants; draft lecture notes 6pp loose and 14pp in booklet form; 13pp draft conference summary.

Milstein was one of the organisers of the Conference, co-chaired the first Session, and lectured on 'B cell repertoire and affinity maturation' on 2 October.

G.60 Congreso de Jovenes Cientificos, Mendoza, Argentina, November/December 1991

Draft letter declining invitation, in Spanish.


Correspondence including itinerary, printed Jubilee booklet, invitation, and 1p draft lecture notes.

Milstein attended the Nobel Foundation Jubilee on the occasion of the 90th anniversary of the Nobel Prize, Stockholm, Sweden, 6-12 December 1991 and participated in the Karolinska Institute Symposium on 'Transplantation - Pharmacology - Immunology', Huddinge Hospital, 7 December, at which he lectured on 'Affinity Maturation of Antibodies'.

G.62 Cancer Research Campaign and International Union Against Cancer International Conference on 'Targeted Cancer Therapy', Royal Free Hospital School of Medicine, London, 17-19 December 1991

Brief correspondence, programme (annotated by Milstein), personal diet sheet, etc, 1991.
Correspondence, H.1-H.187

Milstein chaired the third Session.


Correspondence, some in Spanish, invitation signed personally by the Foundation Director and over 30 supporting institution and organisation heads, etc; photocopy press cuttings including pictures of Milstein speaking at the event; itinerary; programme.

Milstein lectured on ‘Monoclonal Antibodies and Cancer’.


Correspondence including request for paper for publication, Milstein’s 8pp notes on proceedings, and 13pp draft lecture notes ‘Notes for Hybridoma meeting March 1992’.

Milstein gave the plenary lecture.

G.65 Imperial College London Retirement Symposium for Professor Brian Hartley FRS of Trinity College, Cambridge, 2-4 April 1992 1991

Invitation letter and copy of Milstein's completed application form.


Correspondence including itinerary.

Milstein lectured on the evening of 4 May on ‘Evolution of monoclonal antibodies’.

The conference was held immediately after a meeting of the Antisoma Science Council, 3 May 1992, which Milstein attended.

Correspondence, H.1-H.187

Targeted Cellular Cytotoxicity’, Ostuni, Brindisi, Italy, 13-17 June 1992

Correspondence re arrangements including publication of proceedings; programme; 16pp draft lecture notes.

Milstein was a member of the Scientific Committee and gave the keynote address.

G.68 3rd Argentine-British Conference, 18-20 September, 1992, St Catherine’s College, Cambridge 1992

Letter declining invitation to the Conference reception.


Correspondence re arrangements, including proposed programme; 1p draft lecture notes on ‘The Expression of CD1 Genes’ by Milstein and A. Woolfson; 1p draft abstract by C. Yung Yu sent to Milstein for approval.

Milstein spoke on ‘MHC Class 1-related antigens (CD1)’.

G.70 Cultural and Scientific Conference on the occasion of the 150th Anniversary of the inception of the University of Chile, Santiago, Chile, December 1992 1991-1992

Correspondence, some in Spanish, and tentative programme.


Correspondence, some in Spanish, with list of invited speakers.

Milstein’s attendance was not confirmed and he declined to speak ‘since I have not been active in the field for some time’. Includes reference to a proposed visit to Seville 8-21 April 1993 just prior to the Workshop but Milstein finally
commented he would now ‘…have to leave Sevilla to another opportunity’.

G.72 5th International Workshop and Conference on ‘Human Leukocyte Differentiation Antigens’, Boston, USA, 3-7 November 1993

Correspondence re organisation and arrangements for the conference.

See also C.138 for further material.

Milstein was a member of the Conference organising council.

G.73 150th Anniversary of the British Hospital, Buenos Aires, Argentina, 8 March 1994

Correspondence including ‘Hospital Britanico’, marked ‘El Reloj’; programme in Spanish; 17pp typescript and manuscript draft lecture notes with manuscript corrections.

Milstein gave the main lecture on ‘De anticuerpos “á la carte” a anticuerpos “a medida”’.

G.74 25th Congress of the International Society of Hematology, Cancún, Mexico, 17-22 April 1994

Correspondence, some in Spanish, and 11pp ‘Lecture Notes Mexico 1994’.

Milstein gave a lecture on ‘Monoclonal Antibodies in Hematology’.

G.75 Wellcome Trust Antibody Engineering meeting, August 1994

Letter re arrangements.

G.76 5th Congreso Luso-Español de Bioquímica, Salamanca, Spain, 27-30 September 1994

Correspondence, some in Spanish.

Milstein was asked to give the Severo Ochoa plenary lecture at the Conference. Ochoa (1905-1993) was a
friend of Milstein’s and Milstein indicated he felt ‘a moral obligation to accept but only if the subject of the lecture is something like Hypermutation and the Affinity Maturation of Antibodies’.

G.77  ‘Ecuador Congress’, ca 1994  ca 1994
2pp manuscript letter marked ‘FAX’ re booking for the Congress.

Milstein stated ‘…I will be in Madrid before proceeding to Salamanca.’ See also G.76.

G.78  Cambridge University Scientific Society annual Christmas dinner, Corpus Christi College, 23 November 1995  1995
Invitation letter and Milstein’s reply.

G.79  Instituto Balseiro scientific conference, Bariloche, Argentina, 1995  1995
Correspondence in Spanish including invitation (declined).

Correspondence including list of speakers and provisional programme.

Milstein gave a lecture, provisionally entitled ‘Somatic hypermutation and antibody affinity maturation,’ and chaired one of the sessions.

See also G.93.

G.81  British Society of Immunology Spring Meeting Symposium on ‘The molecular biology of CD1’, St Michael’s Hospital, Bristol, 17-19 April 1996  1995-1996
Correspondence and 12pp draft lecture notes.

Milstein gave a lecture ‘…about CD1’.

G.82  International Society of Molecular Evolution Symposium on ‘Junk DNA: The Role and the Evolution of Non-Coding  1996
Correspondence, H.1-H.187

Sequences’, Guanacaste Province, Costa Rica, 6-10 January 1997

Correspondence.

Milstein accepted Honorary Membership of the International Society of Molecular Evolution to be presented at this occasion, and was to lecture on ‘Hypermutation of Antibody Genes’. However, subsequently he had to decline due to a prior engagement in Thailand.


Brief correspondence between D. Blow and Milstein on conference attendance.

G.84 5th Jornadas Interhospitalarias del Centro del la Cuidad de Buenos Aires, Argentina, 21-23 April 1999

Invitation (declined), in Spanish.

G.84A Dinners to mark the retirement of Alan Cuthbert, Master of Fitzwilliam College, 30 September, and the admission of Brian Johnson to the Mastership, 4 October 1999, respectively

Invitation.

Milstein was invited in his capacity as Honorary Fellow of Fitzwilliam College.

G.85 Royal Society Discussion Meeting on ‘Hypermutation in antibody genes’, London, 5-6 July 2000

2pp programme and addendum with Milstein’s manuscript notes on proceedings.

Milstein chaired the first session.

G.86 Laboratory of Molecular Biology Symposium, Cambridge, 16-20 October 2000

Programme with annotated manuscript notes on proceedings.
Correspondence, H.1-H.187

G.87  180th Anniversary of the UBA (University of Buenos Aires) Meeting, ca April 2001
     1p manuscript letter draft, 18 April.
     Milstein was invited to participate but had to decline.

G.88  ‘Distinguished Scholar’, Department of Immunology, University of Washington, Seattle, USA, ca 2001
     Invitation (declined) due to ill-health.

G.89  Proposed conference in honour of Milstein with suggested titles of ‘My Route from Argentina to Nobel Prize’, and ‘Hypermutation for the Antibody Gene’, proposed for Curitiba [Brazil], February/March 2002.
     Letter only.

G.90-G.94  Miscellaneous lecture and seminar notes including laboratory talks, notes on proceedings of visits and conferences
With the exception of G.90, the notes are in the form of spiral-bound softback student notebooks. The notebooks may also include intercalated sheets, material pasted onto the pages, and ‘Ideas’ notes.

     A4 notepad (‘Schloss Elman’) and loose sheets.

G.91  ‘Seminars’
     1988-ca 1991

G.92  ‘1993’
     1993-ca 1996

G.93  ‘1996/’MEETS’ crossed out’) Lectures’
     Includes Spring Meeting on ‘Genome Evolution and
Correspondence, H.1-H.187


Includes programmes for Laboratory of Molecular Biology Symposium, 15-19 October 2001 (annotated in pencil by Milstein); and Novartis Symposium on Systemic Lupus Erythematosus, Cambridge Institute for Medical Research, Addenbrooke's Hospital, Cambridge, 2 November 2001.
Correspondence, H.1-H.187

SECTION H  CORRESPONDENCE, H.1-H.187  1959-2002

H.1-H.152  GENERAL CORRESPONDENCE

H.153-H.169  MISCELLANEOUS CORRESPONDENCE

H.170-H.184  REFERENCES AND RECOMMENDATIONS

H.185-H.187  ‘HISTORICAL RECORDS - HERVÉ BAZIN’


This is Milstein’s principal sequence of correspondence found in hanging files marked ‘General’ and arranged alphabetically. Within these files some groups of correspondence were found together by name of person (or in two cases by name of country), sometimes within a folder of their own. Titles have been reproduced in the catalogue entries.

The content of the correspondence varies. It may relate to scientific research, publications, invitations to meetings and requests for references but also can include personal news.


H.1  Adams, J.M.  1977-1988

CLOSED UNTIL 2064


Agur was based at the Oxford University Department of Zoology before moving to the University of Tel Aviv in 1995.
Correspondence, H.1-H.187

H.3 Alzari, P.M. 1990, 1992
Alzari was based at the Institut Pasteur, Paris, France.

H.4 Aparico Alonso, P. 1998
Visit to Milstein’s laboratory.
Aparico was based at the Faculty of Medicine, University of Murcia, Spain.

Includes correspondence re visits by R. Nezlin.
Askonas was based at the Molecular Immunology Group in the Oxford Institute of Molecular Medicine.

H.6 Ab.-Ak. 1984-2001

H.7 Am.-Ay. 1982-2001
Some in Spanish.

H.8 A. 1989-1995
References.
CLOSED UNTIL 2071


H.10 Career 1980-1983
CLOSED UNTIL 2059
Correspondence, H.1-H.187

Miscellaneous correspondents from Argentina. In chronological order.
Much in Spanish.


H.12  1994-1999
Includes 5pp typescript ‘Reflexiones de un immunologo sobre una leccion que nunca se aprende’ by Milstein, sent to A.L. Gak.

H.13  2000-2001


H.14  Baltimore, D.  1988
Controversy over data used in article published in Cell.

H.15  Baralle, F.E.  1988-1999
Baralle wrote from research centres in Milan and later Trieste, Italy.

Re development of rotavirus monoclonal antibodies.
Barnes, Bishop and Coulson wrote from the Royal Children’s Hospital, Melbourne, Australia.

Mostly in Spanish.
Correspondence, H.1-H.187

Barrantes came from Argentina to work with Nigel Unwin in the MRC laboratory.

H.18
Bold, A.J. de 1996
Translation of ‘A lesson never learnt’ by Milstein into Spanish for internet journal *Interscientia*.
Includes paper and biography of Milstein (in English), with Spanish versions.

H.19
Bothwell wrote from the Yale University School of Medicine.

H.20
Visit to MRC Laboratory, December 1995.
Brutkiewicz was based at the National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA.

H.21
Ba.-Be. 1973-2001

H.22
Bh.-Bo. 1986-2001

H.23
Br.-Bu. 1979-2000

H.24
B. 1981-1986
References.
CLOSED UNTIL 2062

H.25-H.36
‘C’ 1975-2000

H.25, H.26
Cambrosio, A. 1991-1995
Correspondence, H.1-H.187

Cambrosio was based at the Department of Humanities and Social Sciences, McGill University, Canada.

H.25 1991
Draft of ‘Between fact and technique: the beginnings of hybridoma technology’ by Cambroisio, with Milstein’s comments thereon.

Includes discussion of the award of the 1984 Nobel prize to Milstein and Köhler.

H.26 1994-1995

H.27 Capra, J.D. 1979-1997
For the bulk of this correspondence Capra was based at the University of Texas Health Science Center.

H.28 Cérda Olmedo, E. 1990-1994
Includes correspondence re Advisory Council of the Laboratorio Andaluz de Biologia.

Mostly in Spanish.

Cérda Olmedo was based at the Department of Genetics, University of Seville, Spain.

Mostly in Spanish.

Cereijido was based at the Centro de Investigacion y de Estudios Avanzados, Mexico.

Correspondence, H.1-H.187

Claflin was based at the University of Michigan Medical School, USA.

H.31 Cohn, M. 1991, 1999
Correspondence re credit for work on lamda chains 1991; antibody workshops 1999.

Cohn was based at the Salk Institute for Biological Studies, San Diego, USA.

Possible research collaboration.

Collins (and colleagues) wrote from King's College School of Medicine and Dentistry, London.


H.34 Ce.-Cl. 1988-1998

H.35 Co. 1975-2000

H.36 Cr.-Cu. 1979-1997

Correspondence with colleagues at the Fundacion Campomar, Instituto de Investigaciones Bioquimicas, Buenos Aires, Argentina.

Much in Spanish.

See also E.25.

Milstein was a member of the Scientific Assessment Committee of the Instituto de Investigaciones Bioquimicas.
Correspondence, H.1-H.187

H.37 1991-1996
H.37A 1996
CLOSED UNTIL 2072

H.38 1997
Chiefly re visit to Argentina, April 1997. Includes 13pp typescript ?lecture 'El impacto de la Industria en la Ciencia'; 'Un debate abierto' on the Istituto de Investigaciones Bioquimicas; and correspondence arising.

H.39 1998-1999

H.40 2000-2001

H.41, H.42 ‘Chile’ 1995-1998
Miscellaneous correspondents from Chile. In chronological order.
Much in Spanish.

H.41 1995-1996
Establishment of Presidential Science Chairs.
Milstein was a member of the Jury appointing to these chairs, established by the Chilean President.
CLOSED UNTIL 2072

H.42 1998
University of Chile institutional evaluation.

Much of Cuello’s correspondence is in Spanish.
A.C.G. Cuello was a distinguished neuropharmacologist. Like Milstein he was Argentine by birth but had left that
country for political reasons in the 1970s. He held research and academic positions in the Departments of Pharmacology at both Oxford (1979-1985) and Cambridge, working with Milstein, before being appointed Chairman and then Charles E. Frosst Merck Professor of the Department of Pharmacology and Therapeutics, McGill University, Canada.

H.43 1979-1980
Includes joint work on anti-SP.
Cuello was based in Oxford in this period.

H.44 1981
Includes notes from Cuello on joint work with Milstein and Priestley on ‘Immunocytochemistry with internally labelled monoclonal antibodies’ (published in Proceedings of the National Academy of Sciences, Jan 1982), and with D.M. Boorsma et al on ‘Preparation of a conjugate of horseradish peroxidase and monoclonal antibody against substance P and its use in immunoperoxidase techniques’.

H.45 1982
Includes correspondence re joint research on immunocytochemistry.

H.46 1983
Work on monoclonal antibodies.

H.47 1984-1985
Includes Cuello’s notes on work in progress.

Includes correspondence 1989 re proposed McGill-Cambridge research unit.
Correspondence, H.1-H.187

H.49 1992-1993
Chiefly re visit by Cuello to Cambridge 1993.

H.50 1995-2000
CLOSED UNTIL 2061


H.51 Da.-Dw. 1980-2001

H.52 D.
References.
CLOSED UNTIL 2077


Feizi was Head of the Glycoconjugate Section of the MRC’s Clinical Research Centre, later becoming Director of the Glycosciences Laboratory at Imperial College London.

Recommendations.
CLOSED UNTIL 2061

H.56 Foote, J. 1997-2002
Chiefly re support of research.
Foote was based at the Fred Hutchinson Cancer Research Center, Seattle, USA.
Correspondence, H.1-H.187

H.57 Frasch, A.C.C. 1993-2001
Recommendations.
CLOSED UNTIL 2062

H.58 Froud, S.J. 1993
Re derivation of cell line of NS0 myeloma.
Froud worked for Celltech Ltd.

H.59 Fa.-Fu. 1979-2000

H.60 F. 1979, 1988, 2000
References.
CLOSED UNTIL, 2076


Career.
CLOSED UNTIL 2056

Garrido was based at the Hospital ‘Virgen de las Nievas’, Granada, Spain.

H.63 Gherardi, E. 2000
Re career.
CLOSED UNTIL 2076

H.64 Goni, F. 1998-1999
Milstein’s possible attendance at the Fifth Congress of the Asociacion Latinomaericana de Immunologia.
Goni was Secretary General of the Asociacion
Correspondence, H.1-H.187

Latinoamericana de Immunologia.

H.65 Ga.-Ge. 1982-2000

H.66 Gi.-Go. 1982-2002


References.

CLOSED UNTIL 2077


Chiefly correspondence and papers re controversy between R.C. Gallo and A. Karpas on HTLV (human T cell leukaemia viruses) and AIDS.

H.70 ‘Green’ 1997

Correspondence with N.S. Green and M.D. Scharff re potential joint research.

Green and Scharff were based at the Albert Einstein College of Medicine, New York, USA.


International awards.

Gurdon was John Humphrey Plummer Professor of Cell Biology at Cambridge.


Correspondence, H.1-H.187

H.72  Helm, B.A.  1986-1989
Interchain disulphide bonds in human IgE.  /...
/...
Helm was based at King's College London.

H.73  Ha.  1979-2000

H.74  He.-Hi.  1992-1998

H.75  Ho.-Hu.  1979-2001

H.76  H.  1978, 1999
References.
CLOSED UNTIL 2075

H.77  ‘Nick Hales’  1984-1986
Honours and awards.
C.N. Hales was Professor of Clinical Biochemistry at Cambridge from 1977.
CLOSED UNTIL 2047

After working at the Wellcome Laboratories in Beckenham, the AFRC Institute of Animal Physiology, Cambridge, J.C. Howard was Professor of Cell Genetics at the Institut für Genetik of the University of Köln.

H.78  Miscellaneous papers  1980, n.d.
Includes paper on ‘The future of immunology’ by Howard, given to the British Pharmaceutical Society Conference, September 1980; and photocopied manuscript research data from the 1970s.

H.79  Career and honours  1982-1993
CLOSED UNTIL 2069

H.80  Career and honours  1993-1995
Correspondence, H.1-H.187

CLOSED UNTIL 2071

**H.81**

‘General I’

1996

**H.82-H.84**

‘J General’

1978-2001

**H.82**

Jörnvall, H.

2001

Visit of the Milsteins to Stockholm.

Jörnvall was Professor in the Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden.

**H.83**

Ja.-Jo.

1980-1998

**H.84**

J.


References.

CLOSED UNTIL 2066

**H.85-H.95**

‘K General’

1975-2001

**H.85-H.89**

‘K’

1979-2001

**H.85**

Klein, J.

1981, 1995

1981 correspondence re Klein’s draft article ‘The new Shylocks?’ on scientists selling rights to distribute antibodies to commercial companies.

Klein was based at the Max-Planck-Institut für Biologie, Tübingen, Germany.

**H.86**

Kornblihtt, A.R.

1996-1999

Chiefly re progress of research.

Mostly in Spanish.
Correspondence, H.1-H.187

Kornblitt was based at the Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, Buenos Aires, Argentina.

H.87 Ka.-Ki. 1981-2001


H.89 Kr.-Ku. 1979-2000

H.90 ‘Elvin Kabat’
Includes correspondence re research on alpha(1-6) dextran.

Kabat was based at the Department of Microbiology, Columbia University, New York, USA

H.91 Kacelnik, A. 1990-1995

Correspondence re evolution.

For most of the period covered by the correspondence Kacelnik was based at the Department of Zoology, Oxford.

H.92-H.94 ‘Karpas’
1975-1999

Career and achievements.

A. Karpas was Assistant Director of Research in the Cambridge Department of Haematology for much of the period covered by this correspondence. He specialised in the etiology of cancer but came to wider prominence for his research into the cause of AIDS.

H.92 1975-1983
CLOSED UNTIL 2075

H.93 1986-1991
CLOSED UNTIL 2075
Correspondence, H.1-H.187

H.94  1992-1999
CLOSED UNTIL 2075

References.
CLOSED UNTIL 2076


H.96  La.  1979-1999

H.97  Le.-Lo.  1984-2000

References.
CLOSED UNTIL 2074


H.99  Mäkelä, O.  1982-1983
Work on anti-idiotype reagents.
Mäkelä was based at the Department of Bacteriology and Immunology, University of Helsinki, Finland.

Correspondence in Spanish.
Margni was based at the University of Buenos Aires, Argentina.

Correspondence, H.1-H.187

Career.

CLOSED UNTIL 2072

H.102  Mordoh, J.  1990-1999

Chiefly re work on monoclonal antibodies.

Mordoh was based at the Fundacion Campomar, Argentina.

H.103  Ma.  1976-2000

H.104  Me.  1987-2001

H.105  Mi.-Mu.  1979-1999


References.

CLOSED UNTIL 2076


A.J. McMichael was based at the Royal Free Hospital, London.

H.107  1978

Correspondence and research data re work on leukaemia cells.

Includes correspondence with G. Janossy and others.


Correspondence, H.1-H.187


References.
CLOSED UNTIL 2077


H.112 Pa.-Pe. 1978-2000

H.113 Pf.-Pr. 1986-1999

H.114 ‘Roberto Poljak’ 1986-1997

Poljak was Professor at the Institut Pasteur, Paris, and Director of Research, CNRS, for most of this period.

CLOSED UNTIL 2058


H.115 Rabbitts, P.H. 1995-1996

Career.
CLOSED UNTIL 2077


Progress of research and scientific collaboration.

Rajewsky was based at the Institute of Genetics,
Correspondence, H.1-H.187

University of Köln.

H.117 Rigby, P. 1982-1984
Rigby was based at the Eukaryotic Molecular Genetics Research Group, Imperial College London.

H.118 Rogozin, I. 1996
Progress of research.
Rogozin was based at the Institute of Cytology and Genetics, Novosibirsk, Russia.

H.119 Ra.-Ri. 1975-1999

H.120 Ro.-Ru. 1980-2001

H.121 ‘Ken Reid’ 1992-1997
Career and honours.
CLOSED UNTIL 2073


H.122 Salas Falgueras, M. 1996-1997
Career and honours.
CLOSED UNTIL 2073

H.123 Scazzocchio, C. 1993, 1999
Career.
Scazzocchio was based at the Institut de Génétique et Microbiologie, Paris, France.
CLOSED UNTIL 2075
Correspondence, H.1-H.187

H.124  Scharff, M.D.  1980-1998
Progress of research and publications, especially NSO.  /...
Scharff was based at the Albert Einstein College of Medicine, New York, USA, becoming Director of the Cancer Research Center there.

H.125  Schimpl, A.  1979, 1994
Schimpl was based at the Institut für Virologie und Immunbiologie, Würzburg, Germany.

H.126  Sirulnik, A.  1998
Re visits to Milstein’s laboratory to carry out experimental work.
Sirulnik was based at the Long Island Jewish Medical Center, Albert Einstein College of Medicine, New York, USA.

Includes correspondence re progress of research.
Mostly in Spanish.
Stoppani was Milstein’s research supervisor in the 1950s. He was later Professor in the Centro de Investigaciones Bioenergeticas, University of Buenos Aires, Argentina.


H.129  Se.-Si.  1981-1998

H.130  Sm.-So.  1988-2001

H.131  St.-Sv. and unidentified  1987-2002
Correspondence, H.1-H.187

H.132
S. 
References.
CLOSED UNTIL 2076

H.133
‘Jim Schroeder (pruned)’
Research on human immunoglobulin genes and CD1 antigens.
Schroeder was based at the Department of Anatomy and Embryology, College of Veterinary Medicine, Helsinki, Finland.

H.134
Springer, T.A.
Chiefly re career.
Springer was based at the Harvard Medical School, latterly its Center for Blood Research.
CLOSED UNTIL 2070

H.135-H.139
‘T General’

H.135-H.138
‘T’

H.135
Trucco, M.
Progress of career and research.
Trucco was based at the Basel Institute for Immunology, Switzerland, before moving to work at the Wistar Institute, Philadelphia, USA.

H.136
Ta.-Te.

H.137
Th.-Ty.
**Correspondence, H.1-H.187**

**H.138**  
T.  
References.  
CLOSED UNTIL 2077

**H.139**  
‘Takei’  
Career and progress of research.  
Takei was based at the Department of Microbiology, University of British Columbia, Canada, then from 1981 at the British Columbia Cancer Research Centre. He came to work with Milstein in Cambridge 1977-1980.

**H.140-H.144**  
‘U-V General’  
1979-2001

**H.140**  
‘U’  
1979, 1987

**H.141-H.144**  
‘V’  
1981-2001

**H.141**  
Vane, J.  
Career.

**H.142**  
Vindrola, O.  
1988  
Milstien’s comments on draft paper.  
Vindrola was based at the Instituto de Investigaciones Medicas, Buenos Aires, Argentina.

**H.143**  
Va.-Ve.  
1981-2001

**H.144**  
Vl.-Vo.  
1986-2001

**H.145-H.149**  
‘General W’  
1985-2000

**H.145-H.147**  
‘W’  
1985-2000
Correspondence, H.1-H.187

H.145
Includes progress on research with TCR-beta gene and mRNA.
Wilkinson was based at the Department of Microbiology and Immunology, Vollum Institute, Oregon Health Sciences University, and later at the University of Texas M.D. Anderson Cancer Center.

H.146
Wa.-Wo. 1985-2000

H.147
W. 1986-1999
References.
CLOSED UNTIL 2075

H.148
‘H. Waldmann (pruned)’ 1992, 1994

H.149
‘Alan Williams (deceased) (pruned heavily)’ 1986-1992
Williams was based at the MRC’s Cellular Immunology Unit, Oxford.


H.150
Zinkernagel was based at the Department of Pathology, Institut für Experimentelle Immunologie, University of Zürich, Switzerland.

H.151

H.152
Y., Z. 1975, 2000
Correspondence, H.1-H.187

References

CLOSED UNTIL 2076


H.153-H.157A Contents of Milstein’s folder of miscellaneous correspondence and papers 1959-1964

H.153 1959-1960
Includes correspondence (mostly in Spanish) re progress of Milstein’s work with F. Sanger.

H.154 Reports 1959-1960

H.155 1961
Includes copy of letter to the British Council reporting on his work at Cambridge on the enzyme phosphoglucomutase; correspondence re export of apparatus to Argentina; and draft letters to Sanger on work since leaving Cambridge.

H.156 1962-1963
Includes correspondence with Sanger on possible return to Cambridge.

H.157 Undated typescript and manuscript reports on Milstein’s work at the Instituto Nacional de Microbiologia in Argentina
In Spanish.

H.157A Correspondence from N. Zuraig, Microbiology Laboratory, Faculty of Natural and Exact Sciences, University of Buenos Aires. 1963-1964
Correspondence, H.1-H.187

Includes experimental results and workings.

In Spanish.


Contents of plastic wallet so labelled: correspondence from colleagues and institutions in Argentina.

H.158 1986-1987

H.159 1988-1989

H.160 1989

Tribute to Milstein on award of Nobel Prize: 36pp photocopy typescript, comprising biography, scientific profiles, pictures.

H.161 1990-1995

H.162 1997-2001


Correspondence with C.J. Barnstable, Yale University School of Medicine, Sir Walter Bodmer, A.F. Williams and others on origins of antibody W6/32, including ascription of authorship in Citation Classic.

H.164 is photocopies of Williams’ and colleagues’ data from 1976 and 1977.

The top letter in bundle (dated 8 April 1991) was annotated ‘This correspondence is to be preserved in archives or whatever of historic interest’.

Correspondence, H.1-H.187

H.165-H.169  Correspondence found loose  1970-1998

No extended exchanges. May include invitations, congratualtions and expressions of admiration, personal news.

Arranged chronologically.

Some in Spanish.

H.165  1970-1984

H.165A  1982-1984 CLOSED UNTIL 20600

H.166  1985-1987

H.167  1988-1990


H.169  1995

CLOSED UNTIL 2071


Contents of Milstein’s folders.


Contents of folder so inscribed.

H.170  1987-1989

CLOSED UNTIL 2065

H.171  1990-1991
Correspondence, H.1-H.187

CLOSED UNTIL 2067

H.172  1993-1995  CLOSED UNTIL 2071

H.173  1996-?1997

CLOSED UNTIL 2073


H.174  1993

CLOSED UNTIL 2069

H.175  1994

CLOSED UNTIL 2070

H.176  1995-2000

CLOSED UNTIL 2076


Correspondence re career and honours for S. Moncada, including concern over lack of appropriate recognition.

H.177  1993-1994

CLOSED UNTIL 2078

H.178  1994

CLOSED UNTIL 2078

H.179  1995-1997

CLOSED UNTIL 2078

H.180  1998-2002

CLOSED UNTIL 2078

H.181  Citations on Moncada’s work

H.182  Printed and photocopy background literature

H.183  ‘Mahidol Award’  1998-2001
Correspondence, H.1-H.187

Milstein was a member of the International Prince Mahidol Award Committee.
CLOSED UNTIL 2077

H.184
Contents of untitled folder 1984, n.d.
Divided into two for ease of reference.
Manuscript drafts of thesis and referee’s reports by Milstein.
CLOSED UNTIL 2060

H.185-H.187
‘HISTORICAL RECORDS - HERVÉ BAZIN’ 1973-1979, 1983

Contents of folder so inscribed: correspondence re work of H. Bazin and the ascription of credit.
Bazin was based at the Unit for Experimental Immunology, Faculty of Medicine, University of Louvain, Belgium. He collaborated with Milstein’s research team on messenger RNA for the rat IgD.

H.185 1973-1979

H.186 June 1983
CLOSED UNTIL 2059

H.187 July-September 1983
CLOSED UNTIL 2059
INDEX OF CORRESPONDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABEL, Carlos A.</td>
<td>H.6</td>
</tr>
<tr>
<td>ACADEMIC PRESS LTD</td>
<td>H.6</td>
</tr>
<tr>
<td>ADAMS, Duncan D.</td>
<td>H.6</td>
</tr>
<tr>
<td>ADAMS, John McKee</td>
<td>H.1</td>
</tr>
<tr>
<td>ADETUGBO, Kayode</td>
<td>B.10</td>
</tr>
<tr>
<td>ADRIAN, Richard, Lord</td>
<td>H.6</td>
</tr>
<tr>
<td>AGUIRRE, Juan A</td>
<td>H.6</td>
</tr>
<tr>
<td>AGUR, Zvia</td>
<td>D.110, H.2</td>
</tr>
<tr>
<td>ALGRANATI, Israel D.</td>
<td>B.11, H.37-H.39</td>
</tr>
<tr>
<td>ALZARI, Pedro M.</td>
<td>H.3</td>
</tr>
<tr>
<td>AMBLER, Richard P.</td>
<td>A.115, H.9, H.10</td>
</tr>
<tr>
<td>AMERICAN TISSUE CULTURE ASSOCIATION</td>
<td>A.87, A.94</td>
</tr>
<tr>
<td>ANFINSEN, C.B.</td>
<td>H.153</td>
</tr>
<tr>
<td>ANTISOMA LTD</td>
<td>F.1-F.4 See also G.66</td>
</tr>
<tr>
<td>AOUFOUCHI, Said</td>
<td>B.12</td>
</tr>
<tr>
<td>APARICO ALONSO, Pedro</td>
<td>H.4</td>
</tr>
<tr>
<td>APPELMELK, B.J.</td>
<td>H.7</td>
</tr>
<tr>
<td>ARGENTINA</td>
<td></td>
</tr>
<tr>
<td>EMBASSY TO THE UK</td>
<td>H.113</td>
</tr>
<tr>
<td>ARGON, Yair</td>
<td>B.13</td>
</tr>
<tr>
<td>ASKONAS, Brigette Alice</td>
<td>H.5</td>
</tr>
<tr>
<td>ASOCIACIÓN ARGENTINA DE ALERGIA E IMMUNOLOGIA</td>
<td>A.79, H.158</td>
</tr>
<tr>
<td>ASOCIACIÓN FARMACEUTICA MEXICANA</td>
<td>H.120</td>
</tr>
<tr>
<td>ASOCIACIÓN LATINOAMERICANA DE IMMUNOLOGIA</td>
<td>H.64</td>
</tr>
<tr>
<td>ASOCIACIÓN QUÍMICA ARGENTINA</td>
<td>A.96</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

ASOCIACIÓNES ISRAELITAS ARGENTINAS

AVILA, Jesús

BAGSHAWE, Ken D.

BAKER, Kenneth Wilfred, Baron

Baltimore, David

BARALLE, Francisco E. ('Tito')

BARBERA GUILLEM, Emilio

BARKER, Karen

BARNARD, Geoff

BARNES, G.L.

BARNSTABLE, Colin J.

BARRA, Hector S.

BARRANTES, Francisco J. ('Pancho')

BASEL INSTITUTE OF IMMUNOLOGY

BASSI, Sebastián

BATALLÁN, Lautaro García

BAZIN, Hervé

BECKMAN, Evan M.

BEIRAK, Eduardo V. Beirak

BENNICH, Hans

BENSUSSAN, N. CERF-

BEREK (or JACK-BEREK), Claudia

BERNARD, Alain

BHAMARAPRAVATI, Natth

BILSLAND, Caroline A.G.

BIOCHEMICAL SOCIETY

BLANCO, Luis
Correspondence, H.1-H.187

BLOW, David  Mervyn  G.83
BODMER, Sir Walter Fred  H.163
BOEHM, Bernhard O.  H.22
BOEHM, Thomas  D.41
BOLD, Adolfo J. de  H.18
BORLADA, Luis-R.  H.22
BORN, Gustav Victor Rudolf  H.22
BOTHWELL, Alfred L.M.  H.19
BOUMSELL, Laurence  H.22
BOYCOTT, Brian Blundell  H.22
BRADBURY, Andrew Raymon Morton  B.18
BRADBURY, E.M.  D.9
BRECHER, Alexandra  B.19
BRENNER, Michael B.  H.23
BRENNER, Sydney  C.324, C.326, H.165
BRITISH BROADCASTING CORPORATION  C.324
BRITISH COUNCIL  H.23, H.155
BRITISH SOCIETY FOR IMMUNOLOGY  E.7
BROOKE, Christopher  H.23
BROWN, Fred  H.11
BROWNLEE, George Gow  D.111
BRUTKIEWICZ, Randy R.  H.20
BURRONE, Oscar Roberto  B.20
BURTON, Dennis R.  See H.168
BUTTERFIELD, William John Hughes, Baron  H.23
BUTTERY, Stephen  H.23
BUUS, Elisa L. de  H.158
Correspondence, H.1-H.187

CABIB, Enrico
CALABI, Franco
CAMBRIDGE ANTIBODY TECHNOLOGY LTD
CAMBRIDGE UNION SOCIETY
CAMBRIDGE UNIVERSITY SCIENTIFIC SOCIETY
CAMBROSIO, Alberto
CAMPAIGNS FOR HUMAN RIGHTS
CANCER RESEARCH INSTITUTE, USA
CAPRA, J. Donald
CARBÓ, Salvador L.
CASANOVA, Jean-Laurent
CEBRA, John J.
CELLTECH LTD
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FRANCE
CENTRO DE ESTUDIANTES DE LA FACULTAD DE CIENCIAS EXACTAS Y NATURALES, ARGENTINA
CÉRDA OLMEDA, Enrique
CEREIJIDO, Marcelino ('Pirincho')
CHANDRA, Ramesh
CHAOUAT, G.
CHARLES DARWIN TRUST
CHEN, Kirk C.S.
CHICHIZOLA, H.
CHILE
PRESIDENTIAL SCIENCE COMMISSION
CHUI Yui-Loon
CLAESSON, Mogens
<table>
<thead>
<tr>
<th>Name</th>
<th>Correspondence</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAFLIN, Latham</td>
<td>H.30</td>
</tr>
<tr>
<td>CLARK, Michael R.</td>
<td>B.24</td>
</tr>
<tr>
<td>CLARKE, Bryan Campbell</td>
<td>H.34</td>
</tr>
<tr>
<td>COHN, M.</td>
<td>H.31</td>
</tr>
<tr>
<td>COLLINS, W.P.</td>
<td>H.32</td>
</tr>
<tr>
<td>COLMAN, Alan</td>
<td>H.35</td>
</tr>
<tr>
<td>COLOMA, Tomás Santa</td>
<td>H.35, H.40</td>
</tr>
<tr>
<td>COMPSTON, D. Alastair S.</td>
<td>H.35</td>
</tr>
<tr>
<td>COOMBS, Robin Royston Amos</td>
<td>H.35</td>
</tr>
<tr>
<td>COPPOLA, Silvia</td>
<td>H.158</td>
</tr>
<tr>
<td>CORNFORTH, Sir John Warcup</td>
<td>C.337</td>
</tr>
<tr>
<td>CORNWELL, Jennifer</td>
<td>F.21</td>
</tr>
<tr>
<td>CORVALAN, Jose</td>
<td>H.35</td>
</tr>
<tr>
<td>COUTINHO, Antonio</td>
<td>H.35</td>
</tr>
<tr>
<td>COWAN, Nicholas J.</td>
<td>A.38, B.27</td>
</tr>
<tr>
<td>COX, Jonathan P.L.</td>
<td>H.35</td>
</tr>
<tr>
<td>CROSS, Stella</td>
<td>A.115</td>
</tr>
<tr>
<td>CUTHBERT, Alan William</td>
<td>H.48</td>
</tr>
<tr>
<td>DAËRON, M.</td>
<td>F.18</td>
</tr>
<tr>
<td>DALMARONI, Maximiliano Javier Jiménez</td>
<td>H.51</td>
</tr>
<tr>
<td>DANKERT, Marcelo</td>
<td>H.37</td>
</tr>
<tr>
<td>DARNELL, James E.</td>
<td>H.51</td>
</tr>
<tr>
<td>DARWIN COLLEGE CAMBRIDGE</td>
<td>A.77, A.100, A.106</td>
</tr>
<tr>
<td>DAVIE, Earl W.</td>
<td>H.51</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

DELIA, Domenico H.51
DENTON, Derek H.51
DESSENO, Victor H.159
DINTZIS, Howard M. H.51
DIXON, Malcolm H.155 See also H.51
DONGEN, Jacques J.M. van H.143
DREHER, Martin L. B.28, C.143
DUNCAN, Alexander A.90
DUNN, David C. H.51
DUNNICK, Wesley A. B.29, D.85, D.86
DWEK, Raymond Allen H.51, H.109 See also H.52
EICHMANN, Klaus H.53
EILAT, Dan H.53
EMERY, Paul H.53
ENGLISH, T.A.H. H.53
EPENETOS, Agamemnon A. F.1-F.4
EPSTEIN, Sir (Michael) Anthony H.53
ERUSALIMSKY, Jorge Daniel B.30
ESHHAR, Zelig H.53
ESPADA, Fernando Diaz de B.31
ETCHEVERRY, Guillermo Jaim H.53
EUROPEAN JOURNAL OF BIOCHEMISTRY D.129
EUROPEAN JOURNAL OF IMMUNOLOGY D.129
EUROPEAN NETWORK OF IMMUNOLOGY INSTITUTES E.21-E.23
EVAN, Gerard H.53
EVANS, E.M. A.78
EVEN, Jos B.32
### Correspondence, H.1-H.187

<table>
<thead>
<tr>
<th>Name</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAINBOIM, Leonardo</td>
<td>B.33</td>
</tr>
<tr>
<td>FALCOFF, Ernesto</td>
<td>H.59</td>
</tr>
<tr>
<td>FAURE, Florence</td>
<td>B.34</td>
</tr>
<tr>
<td>FAVALORO, René G.</td>
<td>H.168</td>
</tr>
<tr>
<td>FEARON, Douglas Thomas</td>
<td>H.59</td>
</tr>
<tr>
<td>FEIZI, Ten</td>
<td>H.54</td>
</tr>
<tr>
<td>FERNANDEZ, Africa Gonzalez</td>
<td>A.103, B.35, C.159, C.203, H.66</td>
</tr>
<tr>
<td>FERNANDEZ, Carmen</td>
<td>B.36</td>
</tr>
<tr>
<td>FERSHT, Sir Alan Roy</td>
<td>H.37, H.55</td>
</tr>
<tr>
<td>FISCHER, Gottfried F.</td>
<td>B.37</td>
</tr>
<tr>
<td>FITZWILLIAM COLLEGE CAMBRIDGE</td>
<td>A.104, A.114, A.117, A.118, A.121</td>
</tr>
<tr>
<td>FLEISCHER, Isaac</td>
<td>H.158</td>
</tr>
<tr>
<td>FÖLSCH, Georg</td>
<td>H.153, H.155</td>
</tr>
<tr>
<td>FOOTE, Jefferson</td>
<td>H.56</td>
</tr>
<tr>
<td>FOUGEREAU, Michel</td>
<td>H.59</td>
</tr>
<tr>
<td>FRANGIONE, Blas</td>
<td>B.38, G.11</td>
</tr>
<tr>
<td>FRANTISEK, Franek</td>
<td>H.59</td>
</tr>
<tr>
<td>FRASCH, Alberto Carlos Clemente</td>
<td>H.57</td>
</tr>
<tr>
<td>FROID, Stephen J.</td>
<td>H.58</td>
</tr>
<tr>
<td>FUDENBERG, Henry Hugh</td>
<td>H.59</td>
</tr>
<tr>
<td>FUNDACIÓN CAMPOMAR, INSTITUTO DE</td>
<td>E.25, H.37-H.40</td>
</tr>
<tr>
<td>INVESTACIONES BIOQUIMICAS, BUENOS</td>
<td></td>
</tr>
<tr>
<td>AIRES, ARGENTINA</td>
<td></td>
</tr>
<tr>
<td>FUNDACIÓN CONCHITA RABAGO DE JIMENEZ DIAZ, SPAIN</td>
<td>D.17, E.26, G.56</td>
</tr>
<tr>
<td>FUNDACIÓN JUAN MARCH, SPAIN</td>
<td>E.27-E.32, G.52, G.69, G.71</td>
</tr>
<tr>
<td>FUNDACIÓN KONEX, ARGENTINA</td>
<td>A.97</td>
</tr>
<tr>
<td>FUNDACIÓN SALES, ARGENTINA</td>
<td>E.36</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

GAK, Abraham Leonardo H.12
GALFRÉ, Giovanni B.39
GALFRÉ, Paola Delmastro B.40
GALLO, Robert Charles H.69
GANNON, Frank H.65
GAO, George F. H.65
GARCÍA-BELLIDO, Antonio H.61
GARRIDO, Federico H.62
GAVIRIA, César H.65
GAY, Gonzalo de PRAT See PRAT GAY
GEFFNER, Jorge Raúl H.65
GEFTER, Malcolm L. H.65
GELLON, Gabriel H.65
GERHARDI, Ermanno B.41, H.63
GILMORE, Linda H.66
GLAXO GROUP RESEARCH LTD B.40
GOLD, Leonor H.66
GONI, Fernando H.64
GONZALEZ, Anselmo Otero H.66
GOTTSCHALK, Marcelo H.66
GOYENECHA, Beatriz B.42
GRAY, David H.67
GREAVES, Mel F. F.18
GREEN, Nancy S. H.70
GREENBERG, Andrew H.67
GRIFFITHS, Gillian M. B.43, B.44
GRONOWICZ, Eva H.67
Correspondence, H.1-H.187

GROSS, Gideon
GUPTA, Satish Kumar
GURDON, Sir John Bertrand
HALE, Peter
HALES, Charles Nicholas
HALPERIN, Jorge
HAMLYN, L.D.
HAMLYN, Pamela Helen
HÄMMERLING, G.J.
HAMMERLING, Ulrich
HARPER, Janice M.
HARRIS, Sir Henry
HARRISON, Paul R.
HELM, Birgit A.
HERBERMAN, Ronald B.
HEYDERMAN, Eadie
HILGERS, J.
HIMMLER, Gottfried
HIRSCHMANN, Ralph
HOGG, Nancy
HOWARD, Jonathan Charles
HOWE (née BUNTON), Shirley Christine
HUMPHREY, John Herbert
IELPI, Luis
IGENEON LTD
IGLESIA, Alberto A.
IMAI, Kohzoh
Correspondence, H.1-H.187

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**JÖRNVALL, H.**

**JOSSO, Nathalie**

**KAARTINEN, Matti**

**KABAT, Elvin A.**

**KACELNIK, Alex**

**KACELNIK, Oliver**

**KANOH, T.**

**KAPLAN, N.O.**
Correspondence, H.1-H.187

KARPAS, Abraham H.92-H.94
See also H.69

KARRAN, Peter H.87

KARUSH, Fred H.87

KEFFORD, Richard F. B.52

KEHOE, J.M. H.87

KELSOE, Garnett H.87

KENNEWELL, Peter D.102

KERBAL, R.S. F.18

KERR, Ian H.87

KLAR, Amar H.88

KLEIN, J. H.85

KLEIN, Michèl R. H.88

KLOTZ, J. C.334


KNOWLES, R.W. D.114

KÖHLER, Georges Jean Franz A.53, A.76, A.117, B.53

KOHLER, Heinz H.88

KONING, Frits H.88

KOPROWSKI, Hilary C.324

KORNBLIHTT, Alberto R. H.12, H.86

KOSHLAND, Daniel E., Jr H.155

KOURILSKY, Francois M. H.88

KOURILSKY, Philippe E.21-E.23, H.88

KOZAK, Christine D.115

KRISMAN-FISCHMAN, Clara R. H.89

KRONENBERG, Mitchell H.89
### Correspondence, H.1-H.187

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>KUEHL, W. Michael</td>
<td>H.89</td>
</tr>
<tr>
<td>LABARCA, Pedro</td>
<td>H.96</td>
</tr>
<tr>
<td>LACHMANN, Peter Julius</td>
<td>E.39, H.96</td>
</tr>
<tr>
<td>LALO, [?]</td>
<td>H.155</td>
</tr>
<tr>
<td>LAMPSON, Lois A.</td>
<td>H.96</td>
</tr>
<tr>
<td>LAMM, Michael E.</td>
<td>F.18</td>
</tr>
<tr>
<td>LANGER, S.Z.</td>
<td>H.96</td>
</tr>
<tr>
<td>LASKOV, Reuven</td>
<td>H.96</td>
</tr>
<tr>
<td>LAU, W.B.M. de</td>
<td>H.51</td>
</tr>
<tr>
<td>LEDERBERG, Joshua</td>
<td>H.97</td>
</tr>
<tr>
<td>LEFEBVRE, Fleur-Ange</td>
<td>B.54</td>
</tr>
<tr>
<td>LELOIR, Luis Federico</td>
<td>H.97</td>
</tr>
<tr>
<td>LEMKE, Hilmar</td>
<td>H.97</td>
</tr>
<tr>
<td>LEONG, Merlin</td>
<td>B.55</td>
</tr>
<tr>
<td>LEVAV, Itzhak</td>
<td>H.97</td>
</tr>
<tr>
<td>LEVY, Ronald and Shoshana</td>
<td>H.97</td>
</tr>
<tr>
<td>LEW, Virgilio L. (‘Arieh’)</td>
<td>B.56</td>
</tr>
<tr>
<td>LINDAHL, Kirsten Fischer</td>
<td>H.59</td>
</tr>
<tr>
<td>LINDQUIST, Jonathan A.</td>
<td>H.97</td>
</tr>
<tr>
<td>LINK, E.M.</td>
<td>H.97</td>
</tr>
<tr>
<td>LINKE, R.</td>
<td>C.311</td>
</tr>
<tr>
<td>LIOTTA, Domingo</td>
<td>H.161</td>
</tr>
<tr>
<td>LIPMANN, Fritz Albert</td>
<td>H.156</td>
</tr>
<tr>
<td>LITTMAN, D.R.</td>
<td>H.97</td>
</tr>
<tr>
<td>LONCARICA, Alfredo G. KOHN-</td>
<td>A.23, A.123</td>
</tr>
<tr>
<td>LORENZANO, Cesar</td>
<td>H.11, H.97</td>
</tr>
<tr>
<td>LORENZO, Johandra Miguez</td>
<td>H.97</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

LOUGHMAN, B. H.155
LOWENSTEIN, Pedro R. H.97
LOZANO, Eduardo H.162
LOZANO, Francisco (‘Paco’) B.57, B.58, H.169

McARDLE, John H.103
MACKENZIE, Michael H.103
McMICHAEL, Andrew James G.34, H.107, H.108
McWHIRTER, Norris A.121
MACCIONI, Ricardo B. H.103
MAERTZDORF, Bart Peter Gijsbert B.59
MAIZELS, Nancy H.103
MÄKELÄ, Olli H.99
MALLA, Edgardo H.161
MANDY, W.J. D.116
MARCUS, Donald M. F.18
MARGINI, Ricardo A. H.100
MARIUZZA, Roy B.60
MARTIN, Luis Horacio B.61
MARTINEZ, Carlos H.103
MASON, Don W. H.103
MATERA, Raul F. H.161
MATHEWS, Michael B. H.101
MATHIEU, J. H.165
MEARES, Claude D.117
MEDICAL COMMITTEE FOR SOVIET JEWRY A.115
MEDICAL RESEARCH COUNCIL A.118, C.324, C.326, C.340
INDUSTRIAL LIAISON GROUP C.326, H.163
See also F.19-F.23
Correspondence, H.1-H.187

MELCHERS, Fritz E.1-E.5, H.104
MENEM, Carlos Saúl H.161, H.168
MENDIVE, Fernando H.104
MERCK SHARP & DOHME, USA E.38
MERUELO, Daniel H.104
MIGONE, Nicola B.62
MILLER, Jacques A.P. H.105
MILSTEIN, Benjamin B. D.23, H.105
MILSTEIN, Celia A.123
MIRAKIAN, Rita H.105
MONCADA, Salvador H.177-H.182
MORAG, Ely H.105
MORDOH, José H.102
MURRAY, David F.13-F.17

NAJJAR, Victor A. H.155
NAKASHIMA, Irma B.63
NARDI, Nance B. H.109
NATIONAL RESEARCH DEVELOPMENT CORPORATION C.324, C.325
NATURE D.96, D.99, D.100, D.124, D.125
NATURE REVIEWS IMMUNOLOGY H.109
NERI, Tauro-Maria B.64
NEUBERGER, Michael H.30, H.67
NEZLIN, Roald H.5, H.109
NISONOFF, Alfred H.109
NOLAN, O. H.109
NORTHCOTE, Donald Henry H.155, H.156
NOVAK, Michal H.109
Correspondence, H.1-H.187

NOVOTNY, Jiri H.109
NYGREN, Hakon H.109
OCHOA, Severo H.166
Oi, Vernon T. H.111
O’KENNEDY, Richard H.109
OLMEDO, Enrique Cerda A.115
OSTERLAND, C. Kirk H.111, H.168
OWEN, John J. T. H.111
PANNELL, Richard C.138, C.140
PAOLETTI, R. A.39
PAPAMICHAIL, Mike H.112
PARAJSZ, C. HÜBNER- C.311
PARIENTE, Maricel Edith H.158
PARODI, Armando J. H.112
PARRINGTON, John H.112
PASQUALINI, Enrique E. H.112
PATON, David C. F.18
PEACE LINES H.112, H.168
PECHT, Israel H.112
PERIES, Jorge H.112
PERHAM, Richard Nelson H.130
PERUCHO, Manuel H.112
PERUTZ, Max Ferdinand H.165
PETERS, D. K. H.59
PHYSICIANS FOR SOCIAL RESPONSIBILITY H.113
PINK, J. Richard L. B.65
## Correspondence, H.1-H.187

<table>
<thead>
<tr>
<th>Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIROSKY, Ignacio</td>
<td>H.153, H.155, H.165</td>
</tr>
<tr>
<td>PODHAJCEK, Osvaldo L.</td>
<td>H.40, H.113</td>
</tr>
<tr>
<td>POLANYI, John Charles</td>
<td>H.113</td>
</tr>
<tr>
<td>POLJAK, Roberto J.</td>
<td>D.90, H.114</td>
</tr>
<tr>
<td>POLLACK, William</td>
<td>C.326</td>
</tr>
<tr>
<td>PRAT GAY, Gonzalo de</td>
<td>H.37, H.38, H.40, H.51, H.65</td>
</tr>
<tr>
<td>PRINCE MAHIDOL AWARD FOUNDATION, THAILAND</td>
<td>H.143</td>
</tr>
<tr>
<td>QUERINJEAN, Pierre</td>
<td>B.66</td>
</tr>
<tr>
<td>RABBITTS, Terry</td>
<td>F.6</td>
</tr>
<tr>
<td>RABBITTS, Pamela H.</td>
<td>H.115</td>
</tr>
<tr>
<td>RABINOVICH, Gabriel</td>
<td>H.161</td>
</tr>
<tr>
<td>RADA, Cristina</td>
<td>B.67, C.240, H.33</td>
</tr>
<tr>
<td>RAJEWSKY, Klaus</td>
<td>H.116</td>
</tr>
<tr>
<td>RALPH, Peter</td>
<td>H.119</td>
</tr>
<tr>
<td>RAMON, Amelia Martinez</td>
<td>B.68</td>
</tr>
<tr>
<td>REAGAN, Ronald Wilson</td>
<td>A.43</td>
</tr>
<tr>
<td>REID, Kenneth Bannerman Milne</td>
<td>H.121</td>
</tr>
<tr>
<td>REQUENA, Jaime</td>
<td>H.167</td>
</tr>
<tr>
<td>RETH, Michael</td>
<td>H.119</td>
</tr>
<tr>
<td>RIBLET, Roy</td>
<td>H.119</td>
</tr>
<tr>
<td>RICHARDS, Vero</td>
<td>H.166</td>
</tr>
<tr>
<td>RIETHMÜLLER, Gert</td>
<td>H.119</td>
</tr>
<tr>
<td>RIGBY, Peter</td>
<td>H.117</td>
</tr>
<tr>
<td>RINALDINI, Luis M.</td>
<td>H.156</td>
</tr>
<tr>
<td>RIVERA, Rolando</td>
<td>H.119</td>
</tr>
<tr>
<td>ROBERTIS, Eduardo M. De</td>
<td>H.38, H.39, H.120</td>
</tr>
<tr>
<td>ROCCA-SERRA, José</td>
<td>B.69</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

ROELANTS, Georges E. H.120
ROGOZIN, Igor H.118
ROSSWALL, Thomas H.120
ROTARY CLUB BAHIA BLANCA A.92, H.158, H.161, H.167
ROTBLAT, Sir Joseph H.120
ROTH, Thomas F. H.119
ROTHWELL, Nancy H.120
ROYAL SOCIETY E.39-E.41, H.35
RÚA, Fernando de la H.162
RUBIN, Bent H.120
SABATINI, David D. H.39
SABINI, L. H.128
SAFFRAN, Murray H.165, H.166
SAKULA, Alex H.167
SALAMONE, Maria del Carmen B.70
SALAS FALGUERAS, Margarita H.122
SALTON, M.R.J. A.32
SANGER, Frederick H.153, H.155, H.156, H.165
SANTA-COLOMA, T.A. H.128
SANTOME, José A. H.128
SAVE BRITISH SCIENCE SOCIETY E.42
SCAZZOCCHIO, Claudio H.123
SCHARFF, Matthew D. H.70, H.124
SCHIMPL, Anneliese H.125
SCHRÖDER, Jim H.133
SCIENCE D.126
SECHER, David H.165
Correspondence, H.1-H.187

SEGAL, Shraga F.18
SEMNZA, Giorgio H.37
SERA-LAB C.305, F.13-F.18
SEROTECH LTD C.333
SEVERINSON, Eva H.129
SHAPIRO, Gary S. H.129
SHAPSHAK, Paul H.45
SHARPE (née CLARK), Melanie Jane B.71
SHERMAN-GOLD, Rivka H.129
SIERRA, Osvaldo C. H.167
SIGMA CHEMICAL CO. H.153
SIMANTOV, Ronit H.129
SIRULNIK, Andres H.126
SITIA, Roberto B.72, D.125
SMILLIE, Robert H.155
SMITH, Les H.130, H.167
SMITH, Michael H.165
SMITHIES, Oliver H.130
SOCIEDAD ARGENTINA DE TRASPLANTES H.51
SOCIEDAD CIENTIFICA ARGENTINA A.91
SOCIETY FOR ENDOCRINOLOGY A.62
SOFTLEY (née BELT), Kathryn Tertia B.73
SOLDATENKOV, Viatcheslav H.130
SOUTHWELL, Myriam H.130
SPRINGER, Timothy Alan H.134
STEELE, E.J. H.131
STEFANI, Enrico H.131
Correspondence, H.1-H.187

<table>
<thead>
<tr>
<th>Name</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stevenson, Freda K.</td>
<td>H.131</td>
</tr>
<tr>
<td>Stewart, Walter W.</td>
<td>H.131</td>
</tr>
<tr>
<td>Stocker, John W.</td>
<td>H.131</td>
</tr>
<tr>
<td>Stoppani, Andres O.M.</td>
<td>H.127, H.153, H.165, H.168</td>
</tr>
<tr>
<td>Streilein, J. Wayne</td>
<td>D.118</td>
</tr>
<tr>
<td>Stromholm, Stig</td>
<td>H.131</td>
</tr>
<tr>
<td>Strominger, Jack L.</td>
<td>H.107</td>
</tr>
<tr>
<td>Suresh, Mavanur Rangarajan</td>
<td>B.74, F.5, F.6</td>
</tr>
<tr>
<td>Sussman, Joshua</td>
<td>H.131</td>
</tr>
<tr>
<td>Svasti, Jisnuson ('Nye')</td>
<td>B.75, H.131, H.183</td>
</tr>
<tr>
<td>Tait, Brian D.</td>
<td>H.136</td>
</tr>
<tr>
<td>Takei, Fumio</td>
<td>H.139</td>
</tr>
<tr>
<td>Tanaka, Yoshimasa</td>
<td>H.136</td>
</tr>
<tr>
<td>Terhorst, Cox</td>
<td>H.136</td>
</tr>
<tr>
<td>Terragno, Rodolfo H.</td>
<td>H.136, H.166</td>
</tr>
<tr>
<td>Thatcher, Margaret Hilda, Baroness</td>
<td>C.337</td>
</tr>
<tr>
<td>Thilly, W.G.</td>
<td>H.137</td>
</tr>
<tr>
<td>Third World Academy of Sciences</td>
<td>E.43, H.143</td>
</tr>
<tr>
<td>Tighe, Jane E.</td>
<td>H.137</td>
</tr>
<tr>
<td>Toivonen, Paavo</td>
<td>E.1</td>
</tr>
<tr>
<td>Toyonaga, Barry</td>
<td>H.166</td>
</tr>
<tr>
<td>Traub, Peter</td>
<td>H.137</td>
</tr>
<tr>
<td>Trends in Biochemical Sciences</td>
<td>H.146</td>
</tr>
<tr>
<td>Trucco, Massimo</td>
<td>A.89, B.76, H.135</td>
</tr>
<tr>
<td>Tykocinski, Mark L.</td>
<td>H.137</td>
</tr>
<tr>
<td>University of Chile</td>
<td>H.42</td>
</tr>
<tr>
<td>Unkeless, Jay</td>
<td>H.140</td>
</tr>
</tbody>
</table>
Correspondence, H.1-H.187

VANE, Sir John Robert H.141
VARSANI, Laxman Murji B.77
VÁZQUEZ, David H.143
VELASCO, Antonio H.143
VENUTA, S. H.143
VILLEGAS, Raimundo H.144
VINDROLA, Osvaldo H.142
VIVANCO, F. H.144
VOAK, Douglas H.144
VOGELSTEIN, Bert H.144
WADE, Nicholas D.124
WAKID, Nabil H.166
WALDMANN, Herman H.148
WALLER, Jean-Pierre H.146
WALTER, Heinrich H.146
WANG, L. D.25
WARD, Colin H.167
WARNER, Noel L. H.163
WEBSTER, W.R. H.146
WELLCOME TRUST E.44
WELLS, Clive H.46
WELSH, Ken F.18
WHELAN, William Joseph A.89, D.103
WILDE, C. Deborah B.78
WILKINSON, Miles H.145
WILLIAMS, Alan F. A.73, H.149, H.163, H.164
Correspondence, H.1-H.187

WOLOSIUK, Ricardo  H.146
WONG, Jason K.  B.79
WOOLFSON, Adrian  B.80, B.81, C.25, C.329, C.329A
WORLD HEALTH ORGANISATION  E.45
WORLD SCIENTIFIC PUBLISHING CO. LTD  D.104

YANG Xu  H.151
YELAMOS, Jose  C.166, H.70
YOUNG, W.W., Jr  F.18
YUDLEVICH, Arturo  H.151
YUNG YU Chack  B.82, C.140, D.59, G.69

ZAGURY, Daniel  H.151
ZAKIN, Mario M.  H.151
ZHOUALI, Moncef  G.59
ZIEGLER, Andreas  B.83
ZINKERNAGEL, Rolf M.  H.150
ZURAIG, N.  H.157A