

Catalogue of the papers and correspondence of

**César Milstein, CH, FRS**

(1927-2002)

By Heather Bird and Timothy E. Powell

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Title: Catalogue of the papers and correspondence of César Milstein CH FRS (1927-2002), molecular biologist

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C. Milstein

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## 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

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Subdivision 1969-1980, Joint Head of the Division of Protein and Nucleic Acid Chemistry 1981-1995 and from 1988 to retirement in 1995 serving as Deputy Director of the Laboratory. He became a Fellow of Darwin College, Cambridge in 1980 (Emeritus Fellow 1995, Honorary Fellow 2002) and an Honorary Fellow of Fitzwilliam College in 1982.

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 Asociacion Argentina de Alergia e Immunologia, in 1988 Honorary Fellowship of the National Academy of Sciences of Argentina and Honorary Membership of the Sociedad Cientifica Argentina

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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.

For further information on the life and work of Milstein see 'César Milstein CH 8 October 1927-24 March 2002' by M.S. Neuberger and B.A. Askonas, *Biographical Memoirs of Fellows of the Royal Society*, vol 51 (2005).

### 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



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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

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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

<b>SECTION A</b>	<b>BIOGRAPHICAL, A.1-A.126</b>	<b>1952-2003</b>
	A.1-A.6	BIOGRAPHICAL AND AUTOBIOGRAPHICAL
	A.7-A.23	INTERVIEWS, ARTICLES AND TRIBUTES
	A.24	BIBLIOGRAPHY
	A.25-A.111	CAREER, HONOURS AND AWARDS
	A.112-A.124	PERSONAL
	A.125, A.126	MISCELLANEOUS
<b>A.1-A.6</b>	<b>BIOGRAPHICAL AND AUTOBIOGRAPHICAL</b>	<b>1999-2002, n.d.</b>
A.1-A.4	Obituaries, March	2002
A.1	<i>The Daily Telegraph</i> , 26 March 2002	
A.2	<i>The Times</i> , 26 March 2002.	
A.3	<i>The Guardian</i> , 27 March 2002. By Pearce Wright	
A.4	<i>The Independent</i> , 27 March 2002. By David Secher	
A.5	Curricula vitae In Spanish, with covering letter, including draft manuscript notes and publications list; and in English.	ca 1999 and 2002
A.6	Extracts from autobiographical notes or talk by Milstein on his life and work	N.d.
<b>A.7-A.23</b>	<b>INTERVIEWS, ARTICLES AND TRIBUTES</b>	<b>1975-2002</b>

- A.7 'Living Factories - New Drugs from Hybrid Cells', by John Newell, BBC External Services, August 1975. 1975
- 3pp BBC copy script.
- Includes details of Milstein and Köhler's antibody production technique.
- A.8 'To whom does scientific knowledge belong?', interview for *UMSCHAU in Wissenschaft und Technik*, Frankfurt, Germany, December 1980. 1980, 1981
- 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'.
- A.9 'Where next for monoclonal antibodies?', article by Stephanie Yanchinski, *New Scientist*, 9 April 1981 1981
- 19pp typescript proofs, with Milstein's manuscript corrections, and covering letter; 3pp copy of published article.
- A.10 'Identity and diversity' panel text about Milstein for British Scientists Exhibition, British Council, London, ca 1990 1989
- Note and 1p typescript draft with Milstein's manuscript corrections, December 1989.
- A.11 'Science Extra' supplements of the *Daily Telegraph*, 1989 and 1990 1989-1990
- Correspondence and Milstein's questionnaire replies, and biographical details.
- These supplements were devoted to contemporary achievements and developments in British science.
- A.12 Question and answer interview with Milstein on his life and career, by M. Novak, July 1991 1991
- The interview includes Milstein's experience during a conference in Prague in 1968 when the Soviet Army invaded Czechoslovakia.

A.13	Biographical questionnaire filled in by Milstein for Deike-Gedenktage, Kreuzlingen, Germany.	1991
A.14	<p>'Analysis. Freedom for Frankenstein', BBC documentary programme, 11 February 1993</p> <p>Transcript and covering letter.</p> <p>Milstein took part with G. Winter and others. He was interviewed by Hugh Prysor-Jones and Zareer Masani.</p>	1993
A.15	<p>Wellcome Trust History of Twentieth Century Medicine Group Witness Seminar, London, September 1993</p> <p>Correspondence including 4pp Milstein's manuscript notes.</p> <p>Milstein was one of the Witnesses at the meeting. He also commented on the transcript of the meeting proceedings prior to publication.</p>	1992-1995
A.16	<p>Request for Milstein to participate in the BBC2 television programme 'Seven [scientific] Wonders of the World', post-August, 1994</p> <p>Brief correspondence including original proposal, Milstein's draft notes on his 'wonders', and previous scientists' contributions.</p> <p>It is unclear if Milstein took part.</p>	1994
A.17	<p><i>Clarín</i>, telephone interview with Milstein by Jorge Halpern, 12 December 1994</p> <p>Brief correspondence in English and Spanish.</p> <p><i>Clarín</i> was an Argentine newspaper.</p>	1994
A.18	<p>Interview by Laura Ayerza de Castilho, possibly for an Argentine magazine, March 1995</p> <p>Brief correspondence in English and Spanish.</p> <p>Includes Milstein's comments on errors in the text.</p>	1995
A.19	'Cambridge Conversations', interview by Tamsin Palmer of the American Friends of Cambridge University	1995-1996

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 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. 1998-2000
- 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*.
- A.22 BBC Radio 4 'Desert Island Discs' interview, London, March 2002 2002
- 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 2002
- Copy of published article, in Spanish.
- See also A.123.
- A.24 **BIBLIOGRAPHY** ca 1963

List of Milstein's publications, in Spanish, 1957-1963.

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

<b>A.25-A.110</b>	<b>CAREER, HONOURS AND AWARDS</b>	<b>1952-2002</b>
<b>A.25-A.29</b>	<b>Career</b>	<b>1945-2002</b>
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  University of Buenos Aires, Argentina: degree in Chemistry, September 1952, and PhD in Chemistry 1957; University of Cambridge PhD March 1961.	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	'Universidad de Buenos Aires. Facultad de Ciencias Medicas. Lista de Trabajos Practicos de Quimica Biologica. Profesor Dr. Roberto F. Banfi. April 1953'  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	Milstein'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.29	Offers of employment declined by Milstein	1975, 1977, 1979.
<b>A.30-A.110</b>	<b>Honours and awards</b>	<b>1977-2002</b>
A.30	Silver Jubilee Medal, July 1977  Report in Medical Research Council Staff Bulletin, July 1977.	1977
A.31	CIBA Medal of the Biochemical Society  Correspondence including notification of award and arrangements.  Milstein received the medal in Galway, Republic of Ireland, September 1978. He gave a lecture.	1978
A.32	Wellcome Lectureship, April 1979  Letter <i>re</i> nomination only.  See A.36.	1979
A.33	Election to Honorary Membership of the American Association of Immunologists, April 1979  Brief correspondence and 2pp list of Honorary Members.	1979
A.34	Avery-Landsteiner Prize of the Society for Immunology, October 1979  Notification letter and 6pp manuscript draft lecture notes and speech of thanks.	1979
A.35	Adolph Rosenburg Foundation Award of the University of Miami School of Medicine, Florida, USA, April 1980  Correspondence including arrangements.	1980-1983



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.

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|------|---|-----------|
| A.36 | <p>Robert Koch Medal of the Robert-Koch Stiftung e.V., June 1980</p> <p>Correspondence and 12pp typescript draft lecture notes with manuscript corrections, 1p references, 2pp figures, and 1p abstract (for the Wellcome Lecture found therewith).</p> <p>This was jointly awarded to Milstein and L.W. Wannamaker.</p>  | 1980      |
| A.37 | <p>Wolf Prize for Medicine of the Wolf Foundation, Tel Aviv, Israel, September 1980</p> <p>Correspondence including congratulations and arrangements.</p> <p>The Prize for 1980 was jointly awarded to Milstein, L. Sachs and J. Gowans.</p>  | 1980      |
| A.38 | <p>Louisa Gross Horwitz Prize of the Trustees of Columbia University, New York, USA, September 1980</p> <p>Correspondence <i>re</i> arrangements, including correspondence with N.J. Cowan at Princeton University.</p> <p>Milstein gave the Carter-Wallace lecture series at Princeton University during his trip to receive the Prize.</p>  | 1980      |
| A.39 | <p>Madonnina Prize for Science of the Fondazione Carlo Erba, Milan, Italy, January 1981</p> <p>Correspondence, including some in Italian <i>re</i> arrangements and collection of the prize.</p> <p>The prize was jointly awarded to Milstein and K. Fuxe.</p> <p>Milstein was unable to attend the ceremony due to illness, and the prize was accepted on his behalf by R. Paoletti of Milan University.</p> | 1980-1981 |
| A.40 | <p>Fellowship of Darwin College Cambridge, 1981</p> <p>Notification and Milstein's letter of acceptance.</p>  | 1980      |

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|------|--|-----------|
| A.41 | <p>William Bate Hardy Prize of the Cambridge Philosophical Society, January 1981</p> <p>Brief correspondence.</p>  | 1981      |
| A.42 | <p>Election to Foreign Associateship of the US National Academy of Sciences, Washington DC, USA, April 1981</p> <p>Correspondence including letters of congratulation.</p>   | 1981      |
| A.43 | <p>Sloan Prize of the General Motors Cancer Research Foundation, New York, USA, June 1981</p> <p>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.</p> <p>The Prize was awarded on 16 June 1981 at the White House, Washington D.C.</p> | 1981-1990 |
| A.44 | <p>Gairdner Foundation International Award of the Gairdner Foundation, Ontario, Canada, October 1981</p> <p>Correspondence, itinerary, commemorative booklet, 8pp typescript draft lecture notes with manuscript corrections, 1p abstract, 5p figures and 1p references.</p> <p>This was jointly awarded to Milstein and G. Köhler.</p> <p>Milstein received the Award in Toronto.</p>                     | 1980-1981 |
| A.45 | <p>Karl Landsteiner Memorial Award of the American Association of Blood Banks, Arlington, Virginia, USA, November 1982</p> <p>Correspondence, press release.</p> <p>This was jointly awarded to Milstein and G. Köhler. Köhler accepted the Award on their behalf.</p>   | 1981-1982 |
| A.46 | <p>David Pressman Memorial Award of the Roswell Park Memorial Institute, Buffalo, New York, USA, February 1982</p> <p>Notification letter and Milstein's acceptance.</p>   | 1982      |

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 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 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 1982
- Letters of congratulations.
- A.51 Honorary Membership of the Deutsche Akademie der Naturforscher Leopoldina, Halle, Germany, December 1982 1983
- 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 1982
- Correspondence.
- This was jointly awarded to Milstein and G. Köhler. Köhler gave the Mallickrodt Lecture on his and Milstein's behalf.

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|------|--|-----------|
| A.53 | <p>Philip Levine Award of the American Society of Clinical Pathologists, Chicago, Illinois, USA, April 1983</p> <p>Correspondence including with Köhler.</p> <p>This was jointly awarded to Milstein and G. Köhler. Milstein was unable to attend the Award ceremony due to prior commitments.</p>   | 1982-1983 |
| A.54 | <p>Proposed Honorary Doctorate of the Weizmann Institute of Science, Israel, April 1983</p> <p>Correspondence.</p> <p>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'.</p> | 1982      |
| A.55 | <p>Election to Foreign Honorary Membership of the American Academy of Arts and Sciences, Cambridge, Massachusetts, USA, May 1983</p> <p>Brief correspondence.</p>  | 1983      |
| A.56 | <p>Honorary Doctorate of Yale University, USA, May 1983</p> <p>Brief correspondence.</p> <p>Milstein was obliged to decline the honour as he was unable to meet the personal attendance requirement due to a previous commitment.</p>  | 1982-1983 |
| A.57 | <p>Election to Honorary Fellowship of the Royal College of Physicians, London, June 1983</p> <p>Brief correspondence.</p>  | 1983      |
| A.58 | <p>Common Wealth Award in Science of the Common Wealth Trust of Wilmington, Delaware, USA, November 1983</p> <p>Correspondence and papers.</p> <p>The Award was presented in England at a lunch at the Royal College of Physicians in London.</p>  | 1983      |

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.	
A.62	Dale Medal of the Society for Endocrinology, March 1984	1983-1984
	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	

notes.

This was jointly awarded to Milstein, G. Köhler and M. Potter.

A.64	<p>John Scott Award of the Board of Directors of City Trusts, City of Philadelphia, Pennsylvania, USA, November 1984</p> <p>Correspondence including arrangements.</p> <p>This was jointly awarded to Milstein and G. Köhler.</p>	1984-1985
A.65-A.78	<p>Nobel Prize for Physiology or Medicine, December 1984</p> <p>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.</p> <p>Milstein was accompanied to Stockholm, Sweden for the ceremonies by his wife Celia and other family members.</p>	1984-2001
A.65	<p>Notification of award, October</p>	1984
A.66-A.69	<p>Letters of congratulation</p> <p>Contents of Milstein's bulky folders, arranged alphabetically.</p> <p>Not indexed.</p>	1984-1985
A.66	<p>A-H</p>	
A.67	<p>I-K</p>	
A.68	<p>L-N</p>	
A.69	<p>O-Z</p>	

A.70	<p>'Latest Congrats'</p> <p>Contents of bulky folder so inscribed.</p> <p>Includes standard letters of reply and list of recipients.</p>	1984-1985
A.70A	Miscellaneous letters of congratulation	1984-1985
A.71	<p>Correspondence <i>re</i> travel arrangements including family guests</p> <p>Includes invitations connected with the award during Milstein's time in Sweden, itinerary, procedural notes, etc.</p> <p>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).</p>	1984
A.72	Correspondence and papers chiefly <i>re</i> arrangements for Nobel prize ceremony	1984
A.73, A.74	Nobel Lecture, 'From the structure of antibodies to the diversification of the immune response'	1984
A.73	21pp typescript 'Original version' with references, figures, tables and legends; typescript 'Notes for Nobel lecture'.	
A.74	Uncorrected proofs; correspondence.	
A.75	Correspondence and papers <i>re</i> press coverage and publicity following the Nobel Prize announcement	1984-1985
A.76	<p>'Resulting Correspondence'</p> <p>Contents of folder so inscribed: correspondence and papers <i>re</i> publications, articles and other matters arising from Milstein's Nobel lecture and award.</p>	1984-2001
A.77	<p>Dinner in honour of Milstein, Darwin College, Cambridge, 5 February 1985</p> <p>Correspondence <i>re</i> arrangements.</p>	1985

A.78	Brief correspondence <i>re</i> loan of Nobel videotape cassette	1986
A.79	Honorary Membership of the Asociación Argentina de Alergia e Inmunología, Buenos Aires, March 1985  Notification in Spanish and Milstein's reply in English.	1985
A.80	Galen Medal in Therapeutics of the Society of Apothecaries, London, July 1985  Correspondence including list of previous Medal winners.	1985
A.81	Honorary Membership of the Sociedad de Medicina Interna de Bahía Blanca, Bahía Blanca, Argentina, October 1985  Correspondence, mostly in Spanish.	1985
A.82	Honorary Membership of the Academia Nacional de Medicina de Buenos Aires, Argentina, April 1986  Brief correspondence, in English and Spanish.	1986
A.83	Walker Prize for 1981-1985 of the Royal College of Surgeons of England, London, November 1986  Correspondence.	1986-1987
A.84	Honorary Fellowship of the Royal College of Pathologists, London, May 1987  Notification and Milstein's acceptance.	1986
A.85	Honorary Membership of the Academia Nacional de Ciencias Exactas y Naturales, Buenos Aires, Argentina, March 1986  Citation: 'Presentacion del Dr. César Milstein como Academico Honorario', <i>Acad. Nac. Cs. Ex. Fís. Nat., Buenos Aires</i> , vol 39, 1987.  Milstein appears to have been officially welcomed to Membership during his visit documented in G.32.	1987



A.86	<p>Honorary Membership of the Asociacion Medica de Bahia Blanca, Argentina, July 1987</p> <p>Brief correspondence.</p>	1987
A.87	<p>Copy correspondence <i>re</i> nomination of Milstein to Honorary Membership of the American Tissue Culture Association, July 1989</p> <p>Milstein was elected to Honorary Membership in 1991. See A.94.</p>	1989
A.88	<p>Copley Medal of the Royal Society, London, November 1989</p> <p>Correspondence including congratulations.</p>	1989
A.89	<p>Distinguished Service Award of the 'Miami Bio/Technology Winter Symposium', Miami, Florida, USA, January 1990</p> <p>Correspondence.</p> <p>Milstein attended the symposium.</p> <p>He was also awarded the Carlos Finlay Award of the Carlos Finlay Society in Miami during the same visit.</p>	1990
A.90	<p>National Biotechnology Ventures Award, San Francisco, California, USA, November 1990</p> <p>Correspondence; 2pp typescript draft notes for the address; 4pp typescript draft notes with manuscript corrections.</p> <p>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.</p>	1990-1991
A.91	<p>Honorary Membership of the Sociedad Cientifica Argentina, Buenos Aires, Argentina, April 1990</p> <p>Brief correspondence.</p>	1990
A.92	<p>Honorary Membership of the Rotary Club Bahia Blanca for 1990-1991, July 1990</p>	1990-1992

Correspondence, in Spanish.

Milstein was also awarded Honorary Membership for 1991-1992 and 1992-1993.

- |      |   |           |
|------|---|-----------|
| A.93 | <p>Nomination of Milstein for the 1990 Kyoto Prize of the Iwamori Foundation, Japan</p> <p>Correspondence.</p> <p>Includes Milstein's typescript 'Main Points of my Research in Immunology'.</p>  | 1989      |
| A.94 | <p>Election to Honorary Membership of the American Tissue Culture Association, Philadelphia, Pennsylvania, USA, June 1991</p> <p>Correspondence.</p> <p>See also A.87.</p>  | 1991      |
| A.95 | <p>Election to Honorary Fellowship of the Royal Society of Medicine, London, July 1992</p> <p>Correspondence including congratulations.</p> <p>Milstein was also subsequently elected to Honorary Membership of the Section of Pathology of the Society, June 1994.</p> | 1992-1994 |
| A.96 | <p>Honorary Membership of the Asociación Química Argentina, Buenos Aires, Argentina, on the occasion of the 80th Anniversary of its foundation, December 1992</p> <p>Notification in Spanish and Milstein's reply in English.</p>                                       | 1992      |
| A.97 | <p>Diamond Konex Award of Science and Technology of the Fundación Konex, Buenos Aires, Argentina, November 1993</p> <p>Correspondence, mostly in Spanish.</p>   | 1991-1993 |
| A.98 | <p>Companion of Honour, January 1995</p> <p>Letters of congratulations.</p> <p>This honour was awarded to Milstein in the 1995 New Year Honours List.</p>   | 1995      |

A.99	<p>Honorary Professorship of the University of Buenos Aires, Argentina, ca April 1995</p> <p>Letter of congratulations, in Spanish.</p>	1995
A.100	<p>Election to Emeritus Fellowship of Darwin College, Cambridge, May 1995</p> <p>Notification.</p> <p>This election followed Milstein's retirement from the Praelectorship.</p>	1995
A.101	<p>'Honorífico de Investigador Argentino en el Exterior', Buenos Aires, Argentina, May 1995</p> <p>Correspondence and papers, mostly in Spanish.</p> <p>Milstein nominated his sister-in-law, Sara de Milstein, to receive the honour on his behalf.</p>	1995
A.102	<p>Honorary Membership of the Asociación Becarios Argentino-Británica, July 1996</p> <p>Correspondence, incoming in Spanish.</p>	1996
A.103	<p>Honorary Doctorate of the University of Vigo, Spain, May 1999</p> <p>Correspondence and 8pp typescript draft speech of thanks and reflections, in Spanish.</p>	1999
A.104	<p>Honorary Doctorate of the University of Cambridge, June 1999</p> <p>Correspondence including nomination, arrangements, and congratulations.</p>	1998-1999
A.105	<p>Honorary Fellowship of the Academy of Medical Sciences, London, November 2000</p> <p>Correspondence.</p>	2000
A.106	<p>Honorary Fellowship of Darwin College, Cambridge,</p>	2002

January 2002

Notification.

A.107, A.108	Contents of Milstein's bulky folders: correspondence <i>re</i> honours and awards, visits and miscellaneous requests declined by Milstein	ca 1982-2002
A.107	'No's. Prizes/awarded and misc'  Contents of folder so inscribed.	ca 1982-2002
A.108	'Invitations declined'  Contents of folder so inscribed.	1988-2001
A.109	'Autograph Requests'  Contents of folder so inscribed.	1984-1996
A.110, A.111	'Miscellaneous Requests'  Contents of folder so inscribed.	1989-1996
A.110 A.111	1989-1991 1992-1996	
<b>A.112-A.124</b>	<b>PERSONAL</b>	<b>1978-2003, n.d.</b>
A.112	Condolences upon the death of his father, Lazero Milstein  In Spanish.	1991
A.113	Humour  '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 <i>re</i> Milstein's desire for a working bunsen burner.  'A Ballade of Two Caesars'.	N.d.

A.114-A.124	Personal correspondence	1978-2003
A.114	1978-1979	
A.115	1982-1996	
	Bundle of personal correspondence found together.	
A.116	'Appeals for support'	1982-2001
	Contents of folder so inscribed.	
A.117	1982-1985	
A.118	1987-1989	
A.119	'Help letters'	1989-1995
	Contents of folder so inscribed.	
A.120	1991-2001	
	Correspondence <i>re</i> health matters.	
A.121	1992-1994	
	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.	
A.122	1995-2001	
	Bundle of personal correspondence found together, some in Spanish.	
A.123	1996-2003	

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	1965-1991
	Mostly in Spanish.	
	Includes Milstein's notes (in English) on his research collaboration with G. Köhler.	
<b>A.125, A.126</b>	<b>MISCELLANEOUS</b>	<b>1965-1986, n.d.</b>
A.125	Milstein's Club Méditerranée scuba-diving certification card	1965-1986
	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	N.d.

**SECTION B                      LABORATORY OF MOLECULAR BIOLOGY, B.1-B.84                      1970-2002**

B.1-B.9                      OFFICE APPOINTMENT DIARIES

B.10-B.84                      RESEACH STUDENTS AND VISITORS

**B.1-B.9                      OFFICE APPOINTMENT DIARIES                      1993-2002**

Spiral bound softback diaries.

B.1                      1993-1994

B.2                      1994-1995

B.3                      1995-1996

B.4                      1996-1997

B.5                      1997-1998

B.6                      1998-1999

B.7                      1999-2000

B.8                      2000-2001

B.9                      2001-2002

**B.10-B.84                      RESEARCH STUDENTS AND VISITORS                      1970-2001**

**Research, C.1-C.340**

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	
B.15	Barker, K.	1989-1991
	Barker was a short-term research student.	
	CLOSED UNTIL 2067	
B.16	Berek, C.	1982-1996





**Research, C.1-C.340**

	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. 1970-1980 CLOSED UNTIL 2069	1970-1993
B.25	1982-1993 CLOSED UNTIL 2069	
B.26	1970-1980 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	1970-1990
B.28	Dreher, M.L. Dreher was a Ph.D. student 1989-1992. CLOSED UNTIL 2068	1986-1992
B.29	Dunnick, W.A. Dunnick was an American visiting postdoctoral researcher 1977-1980. CLOSED UNTIL 2070	1975-1994
B.30	Erusalimsky, J.D. Erusalimsky was an Israeli visiting postdoctoral researcher 1985-1987. CLOSED UNTIL 2067	1983-1991
B.31	Espada, F.D. de Espada was a visiting researcher from Spain supported by an EMBO Fellowship 1980-1982. CLOSED UNTIL 2062	1980-1986
B.32	Even, J.	1988-1991

**Research, C.1-C.340**

	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	
B.35	Fernandez, A.G.	1989-1997
	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	

**Research, C.1-C.340**

B.40	Galfre, P.D.	1980-1989
	Galfre was a researcher supported by Glaxo, 1981-1982.	
	CLOSED UNTIL 2065	
B.41	Gherardi, E.	1988-1997
	Gherardi was a researcher supported by an MRC training fellowship 1988-1991.	
	CLOSED UNTIL 2073	
B.42	Goyenecha, B.	1999
	Goyenecha was a Cuban visiting researcher who went on to study for a Ph.D. in the 1990s.	
	CLOSED UNTIL 2075	
B.43, B.44	Griffiths, G.M.	1983-2001
	Griffiths was a research student 1980-1984.	
B.43	1983-1987	
	CLOSED UNTIL 2077	
B.44	1992-2001	
	CLOSED UNTIL 2077	
B.45	Gupta, S.K.	1988-1995
	Gupta was an Indian short-term visiting researcher in 1990 and 1992.	
	CLOSED UNTIL 2071	
B.46	Hamlyn, P.H.	1974-1984
	Hamlyn was a postdoctoral researcher 1975-1980.	
	CLOSED UNTIL 2060	
B.47	Harper, J.M.	1993, 1995
	Harper was a Ph.D. student ca 1992-1995.	
	CLOSED UNTIL 2071	
B.48	Howe, S.C.	1977-1991

**Research, C.1-C.340**

	Howe was a laboratory technician 1972-1977. CLOSED UNTIL 2067	
B.49	Imai, K. Imai was a short-term research visitor from Japan 1985. CLOSED UNTIL 2061	1983-1985
B.50	Isamat, M. Isamat was a Ph.D. student supported by a British Heart Foundation grant, 1987-1992. CLOSED UNTIL 2070	1987-1994
B.51	Kaartinen, M. Kaartinen was a Finnish visiting researcher supported by an EMBO Fellowship 1979-1981. CLOSED UNTIL 2061	1977-1985
B.52	Kefford, R.F. Kefford was an Australian visiting researcher supported by a Florey Fellowship 1983-1985. CLOSED UNTIL 2071	1982-1995
B.53	Köhler, G.J.F. 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	1973-1995
B.54	Lefebvre, F.-L. Lefebvre was a postdoctoral researcher 1984-1986. CLOSED UNTIL 2063	1982-1987
B.55	Leong, M. Leong was a Canadian visiting researcher supported by an Alberta Heritage Award 1981-1985. CLOSED UNTIL 2061	1980-1985
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
- B.65 Pink, J.R.L. 1977, 1980  
Pink was a Ph.D. student of Milstein, completing his thesis in 1968.  
CLOSED UNTIL 2056
- B.66 Querinjean, P. 1981, 1990  
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
- B.69 Rocca-Serra, J. 1981-1987  
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-tem 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

**Research, C.1-C.340**

B.72	Sitia, R.	1985-1999
	Sitia was a researcher supported by an EMBO Fellowship 1986-1987.	
	CLOSED UNTIL 2075	
B.73	Softley, K.T.	1984-1988
	Softley was a postdoctoral researcher supported by a Beit Memorial Fellowship 1986-1987.	
	CLOSED UNTIL 2064	
B.74	Suresh, M.R.	1985-1998
	Suresh was a visiting researcher 1984-1985.	
	CLOSED UNTIL 2074	
B.75	Svasti, J.	1981
	Folder annotated 'Pruned'.	
	Svasti was a Ph.D. student of Milstein, completing his thesis in 1972.	
	CLOSED UNTIL 2057	
B.76	Trucco, M.	1990-1991
	Trucco was a visiting researcher from Italy 1977.	
	CLOSED UNTIL 2067	
B.77	Varsani, L.M.	1989-1994
	Varsani was a postdoctoral researcher 1989-1990.	
	CLOSED UNTIL 2070	
B.78	Wilde, C.D.	1976-1985
	Wilde was a Ph.D. student 1975-1979.	
	CLOSED UNTIL 2061	
B.79	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	
B.80, B.81	Woolfson, A.	1990-1998



**Research, C.1-C.340**

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	
B.82	Yung, C.Y.	1988-1995
	Yung was a visiting researcher in the late 1980s.	
	CLOSED UNTIL 2071	
B.83	Ziegler, A.	1980-1994
	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	

**Research, C.1-C.340**

**SECTION C**

**RESEARCH, C.1-C.340**

**ca 1952-2002**

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**

Milstein's doctoral thesis, 'El papel de los tioles en la oxidacion enzimatica del acetaldehido', University of Buenos Aires.

93pp copy typescript in Spanish including figures, tables and references, and faded paper cover, originally bound

**Research, C.1-C.340**

with metal screws.

**C.2-C.279 RESEARCH NOTEBOOKS AND BINDERS ca 1952-2002**

C.2-C.58	Bound notebooks
C.59-C.206	Research binders
C.207-C.279	Research binders: J.M. Jarvis

**C.2-C.58 Bound notebooks ca 1952-2002**

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.

**C.2-C.11 Series of notebooks numbered 1-10 by Milstein, with many of the experiments numbered and dated, and continuing in sequence throughout the notebooks. ca 1952-ca 1959**

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. Química 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.

**C.2 '1'. Spiral bound softback notebook ca 1952-1955**

**Research, C.1-C.340**

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<br><br>Includes experiments 1-34. Commencing 3 June [year unknown].   | 1950s     |
| C.4 | '3'. Spiral bound softback notebook<br><br>Includes experiments [35]-75.  | 1950s     |
| C.5 | '4'. Spiral bound softback notebook<br><br>Includes experiments 76-113 ca 19 July-ca 19 December.   | 1957      |
| C.6 | '5'. Softback bound notebook<br><br>'Experimentos con la enzima de Racker y Malico Destt. Experimentos numerodos a partir de 1'.<br><br>Various numbered series of experiments including 'Cromatografia'. Used from the front and from the back ca 9 January 1958-25 June [1959]. | 1958-1959 |
| C.7 | '6'. Softback bound notebook<br><br>'Experimentos con la enzima de Black'.<br><br>Including experiment nos. 114-150. Commencing ca. 5 May.  | 1958      |
| C.8 | '7'. Spiral bound softback notebook<br><br>'Enzima de Black. 1958'.<br><br>Including experiment nos. 152-179. Commencing ca 28 June.  | 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.
- C.17                    '& 2. Brown I - Marzeck II Human B [?chain] Etc.'.                    1963-1965  
Hardback bound notebook
- 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                    1964-1965
- 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                    1970-1972
- 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                    1976-1984
- Used 18 January 1976-6 August 1984.
- C.21                    'Useless Ideas'. Spiral bound softback notebook.                    1982-1989
- Used from the back and from the front ca June 1982-3 March 1989.
- C.22                    'C.M.' Hardback bound notebook                    1984-1995
- Used 15 August 1984-30 June 1995.
- 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   | ca 1987      |
| /... | Used from the back and from the front.<br>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’.<br><br>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<br><br>Includes miscellaneous notes, University seminars, reports on research by others etc.   | ca 1987-1988 |
| C.25 | ‘Group Discussions’. Spiral bound softback notebook<br><br>Used from the back and from the front 19 November 1990-21 April 1997.<br><br>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. | 1990-1998    |
| C.26 | ‘Divisional Meetings’. Spiral bound softback notebook<br><br>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’.  | ca 1993      |
| C.27 | Hardback bound notebook<br><br>Includes sheep project. Used 25 March 1995-ca 17 December 2001.<br><br>Intercalated material includes minutes of meeting of Cambridge Antibody Technology Scientific Advisory Board 22 November 2001, and computer printouts dated 21 March 2002.  | 1995-2002    |

**Research, C.1-C.340**

C.28	<p>‘Summaries + Theories’. Hardback bound notebook</p> <p>Used from the front and from the back 22 December 1999-31 October [2001].</p>	1999-2001
C.29-C.38	Notebooks of J.M. Jarvis	1963-1984
C.29	<p>[?Book I], ‘J.Jarvis’</p> <p>Includes rabbit and human data. September 1963-January 1965.</p>	1963-1965
C.30	<p>‘Book II’</p> <p>Includes rabbit and human data.</p>	1965-1967
C.31	<p>‘Column Book’</p> <p>Light green cover. 11 February 1965-ca 23 May 1972.</p> <p>Includes work in Milstein’s hand.</p>	1965-1972
C.32	<p>‘[...] Peptides, &amp; Gels + Microzone’</p> <p>Small format, with dark green cover mostly in Jarvis’ hand. 25 September 1970-7 May 1972.</p>	1970-1972
C.33	<p>‘Mutation Expts’</p> <p>Small format, with dark green cover. 9 December 1971-10 April 1972.</p>	1971-1972
C.34	<p>‘JMJ 7/11/74 - 14/10/80’.</p> <p>Large format with mid-brown cover. 7 November 1974-14 October 1980.</p> <p>With ‘Index [of experiments] on inside front cover’.</p> <p>Continues in C.71.</p>	1974-1980
C.35	‘Cell. J.M.J.’	1976-1979



**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

Small format, with black cover. 13 December 1976-18 March 1981.

C.37 'SDS. 2. JM.J.' 1981-1984

Small format with black cover. 23 March 1981-28 November 1984.

C.38 'Media' 1970-ca 1977

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.

C.39-C.47 Notebooks of S.C. Howe ca 1970-1988

C.39 'Freezer Liquid N<sub>2</sub> (nitrogen)' and 'Spinners & Bottles' ca 1970-1974

Small format with dark green cover.

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

C.40 '1 E F Screen'. 'Screening' 1972-1974

Medium size format, with dark green cover.

2 June 1972-11 August 1975.

C.41 'Cells frozen in liquid N<sub>2</sub> From 24-7-[19]72' 1972-1977

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

**Research, C.1-C.340**

	= Cleared Out (10 y[ea]rs 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	'Incorporation Books'	1973-1988
	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
	Medium size, with dark green cover. 17 March 1976-8 August 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	<p>'Colin Ward Book?'</p> <p>A4 size, with black cover. 24 February 1975-18 November 1976.</p>	1975-1976
C.49	<p>'Cloning'</p> <p>Much of the contents may be in C.D. Wilde's hand.</p>	1975-1976
C.50	<p>'IEF/SDS Oct. 1975 C.D. Wilde [?]T34' and 'Gels'</p> <p>Small format, with black cover. Subdivided into sections, by raised tags. 16 October 1975-24 September 1978.</p>	1975-1978
C.51	<p>'Serum Media Records'</p> <p>Small format, with black cover. Subdivided into sections, by raised tags. 10 May 1977-25 June 1979, with further entry at back of notebook dated 24 January 1983.</p>	1977-1979, 1983
C.52	<p>'SDS &amp; IEF. Bruce./Richard'</p> <p>Small format, with black cover. 17 January 1980-6 September 1991.</p>	1980-1991
C.53	<p>Untitled</p> <p>2 September 1992-17 May 1998.</p>	1992-1998
C.54	<p>Untitled</p> <p>20 September 1993-10 February 1994.</p> <p>Including notes in Spanish at the back of the book, possibly referring to operation of a computer programme.</p>	1993-1994

**Research, C.1-C.340**

C.55	'4.4.96-17.4.97 Except LAC system and GFP' 4 April 1996-17 April 1997.	1996-1997
C.56	'GFP and LAC R Exp' 13 November 1996-26 June 1997.  Including notes in Spanish at the back of the book, possibly referring to operation of a computer programme.	1996-1997
C.57	Untitled 27 September 1996-27 January 1997.	1996-1997
C.58	'Jose - 98' 14 May-22 November 1998.	1998
<b>C.59-C.206</b>	<b>Research binders</b>	<b>1970-2001</b>

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.

**Research, C.1-C.340**

C.59-C.70	'Mouse/rat [No.]1'	
C.71-C.81	'Mouse Hybridomas No.1'	
C.82-C.94	'Mouse [Hybridomas] No.2'	
C.95-C.105	'Mouse Hybridomas No.3'	
C.106-C.116	' $\gamma$ Hybridomas (Rat) No.1'	
C.117-C.121	' $\gamma$ Hybridomas (Rat) No.2'	
C.122-C.132	' $\gamma$ Hybridomas No.3'	
C.133-C.141	'Human cells'	
C.142-C.168	Group	
C.169-C.195	'Group R.A's'	
C.196-C.206	'Misc. Lab. notebooks'	
<b>C.59-C.70</b>	<b>'Mouse/rat [No.]1'</b>	<b>1981-1995</b>
C.59	'Bone Marrow & Ludwig [Institute] Serum Records' 11 March 1981-7 April 1982.	1981-1982
C.60	'NQ5, NQ2/H Loss Expts. & Fusions' 25 June 1981-28 February 1983.  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?'	1981-1983
C.61	'FACS Sorts' 13 April 1983-20 June 1986.	1983-1986
C.62	'RP's Gels'	1983-1986

**Research, C.1-C.340**

2 November 1983-3 January 1986.

C.63	'BIOTIN 2 P4M3's' 12 March-8 August 1984.	1984
C.64	'Work sheets Suresh #5005' 20 September 1984-20 June 1985.	1984-1985
C.65	'Luminol' 5 February-28 June 1985.	1985
C.66	'Bispecifics. P4nAL6, MC10, P4nMRCOX'. '(Phox - Rblg(7)' ca 4 December 1987-21 May 1992.	1987-1992
C.67	'N21 Fusions' 15 April-4 August 1988.	1988
C.68	'Replica NQP's', etc [remainder of label illegible] 15 September 1988-5 October 1989.	1988-1989
C.69	'Transgene NQT15 + CR's' 7 September 1990-1 August 1991.	1990-1991
C.70	'Animal House Records. 1° αOX Fusion CHECK Jul '90' 15 June 1990-26 September 1995.	1990-1995
<b>C.71-C.81</b>	<b>'Mouse Hybridomas No.1'</b>	<b>1971-1987</b>

**Research, C.1-C.340**

- |      |   |           |
|------|---|-----------|
| C.71 | <p>'W6. NA1'</p> <p>Inscribed inside front cover 'Expts before 1981 see JMJ book 7/11/74 - 17/10/80' (see C.34).</p> <p>5 June 1971-24 February 1984.</p> <p>Also loose papers <i>re</i> BALB C MICE, HYBRIDS, and LOU RATS, and 'Medium Formulation for Myeloma lines', 1p.'</p> | 1971-1984 |
| C.72 | <p>'Frozen Cells'</p> <p>Label on front cover states 'Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis]'</p> <p>8 September 1972-27 July 1987.</p>   | 1972-1987 |
| C.73 | <p>'Frozen Cells'</p> <p>Also inscribed 'Freezing file. D. N - Hybrids' and 'Cell lines marked with Green have been lost or cleared out. Blue = on computer'</p> <p>15 January 1973-20 July 1987.</p>   | 1973-1987 |
| C.74 | <p>'Bruce's Experiments'. 'X-63 Herman'</p> <p>9 March-ca 26 December 1977.</p> <p>Includes letter to S.C. Howe from GIBCO Bio-Cult Diagnostics Ltd <i>re</i> purchase and shipment of foetal calf serum, 18 March 1977, loose in folder.</p>                                     | 1977      |
| C.75 | <p>'W6/1-HLK<sub>2</sub>'</p> <p>4 October 1978-16 January 1980.</p>  | 1978-1980 |
| C.76 | <p>'NH2 &amp; 3 (JMJ[arvis])'</p> <p>22 February 1979-8 September 1980.</p>   | 1979-1980 |

**Research, C.1-C.340**

C.77	'Clonings'. 'Moises/Herman. NH2 & NH3 fusion $\alpha$ HaG' 23 January 1979-26 August 1982.	1979-1982
C.78	'NO HYBRIDS' and 'Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis]' ca October 1979-9 July 1987.	1979-1987
C.79	'NOC 1 & 2. Spi/HL INT /U SEARCH' 17 March 1981-13 January 1983.	1981-1983
C.80	'NOC 1. NOC 2' 26 June 1981-24 September 1987.	1981-1987
C.81	'SP2 Expts' 3 February-9 June 1982.	1982
<b>C.82-C.94</b>	<b>'Mouse [Hybridomas] No.2'</b>	<b>1972-1992</b>
C.82	'Frozen Cells' 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.	1972-1981
C.83	'Frozen Cells' Also inscribed 'Cell lines marked with Green have been lost or cleared out. Blue = on computer. JMJ[arvis]'.	1972-1986



**Research, C.1-C.340**

25 August 1972-13 November 1986.

- |      |  |           |
|------|--|-----------|
| C.84 | 'Cold Preps I' and 'X63 only'<br>ca 7 February 1974-8 March 1978.  | 1974-1978 |
| C.85 | 'Cold Preps II' and 'IF1, IF2, IF3, IF4, Sp2, Sp3, Sp1, W6/1, W6/31'<br>ca 10 March 1973-7 August 1979.  | 1973-1979 |
| C.86 | 'Ouchterlony's. Immunodiffusions. Immunoabsorbent Runs. SRBC Couplings'<br>4 July 1978-6 August 1980.  | 1978-1980 |
| C.87 | 'Immunoabsorbents. P47 aOx.Prot.A'<br>10 April 1978-30 April 1987.   | 1978-1987 |
| C.88 | 'Rat sera Purif.' and 'C6/41, YC6/41, YODC 5, YDC6, YODC 6, YAML'<br>15 August 1978-31 July 1989.<br>This binder may be the 'Book One' referred to at C.116. | 1978-1989 |
| C.89 | 'Transfections'. 'TK in Freezer in rack'<br>5 October 1979-17 June 1980.   | 1979-1980 |
| C.90 | 'Mice. NA1/34, WM.25' and 'Animal House (LMB). Cellulose Acetate Sera & Urine tests. Phil Wright. (Mice)'<br>5 March 1979-18 August 1987.                    | 1979-1987 |
| C.91 | 'Gels'<br>23 September 1980-3 August 1984.   | 1980-1984 |

**Research, C.1-C.340**

C.92	'FITC'. 'Misc. JMJ[arvis].'. 'Bio Tynyl'  16 January 1981-14 May 1992.	1981-1992
C.93	'Mice', 'NQ, Sp3/HL, H9/25, NODC2, MRC.DX.12, HPC.320, BBM-1, N0E2', 'W6/32HL, D47, MAP/A6, Sp1' and 'Experimental Records'  18 February 1982-1 August 1986.	1982-1986
C.94	'Mice & Rats'  11 February 1984-9 November 1985.	1984-1985
<b>C.95-C.105</b>	<b>'Mouse Hybridomas No.3'</b>	<b>1977-?1994</b>
C.95	'W6/32.1, W3/4.3, W6/45, W6/43'  1 November 1977-11 December 1978.	1977-1978
C.96	'NC1'  22 August 1977-1 November 1983	1977-1983
C.97	'Ongoing T.C.' and 'Bruce'  18 November 1980-14 June 1982.	1980-1982
C.98	'UNP Fusions. Abortive NCC9/ISM1/2 also'  4 June-1 August 1984	1984
C.99	'Oxazolone. NQ 15,16,18, 28. NQPLEQ Spleen. NQ30 - 7day 2°'	1985-1992

**Research, C.1-C.340**

25 February 1985-23 January 1992.

C.100	'Oxazolone Mixtures + Inhibitors.' 'SRBC coupled} OXBSA, lysosymc. H Chain Lost Variants} OX., LYS'	1985-1988
	3 October 1985-17 November 1988.	
C.101	'NQT. NQT3, NQT8, NQT15'	1988-1991
	Intercalated inside the front of the the main binder was a smaller folder titled 'Info for John - Melanie's Experiments'.	
	22 September 1988-11 March 1991.	
C.102	'NOR3'	1989-1990
	14 September 1989-14 February 1990.	
C.103	'Anti-NIP. Fusions. Replicas'	1989-1991
	16 August 1989-11 March 1991.	
C.104	'Dual Spec. Ab. Jeff Foote'	1992
	25 February-6 October 1992.	
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.	
<b>C.106-C.116</b>	<b>'<math>\gamma</math> Hybridomas (Rat) No.1'</b>	<b>?1970-1985</b>
C.106	'YC3.4 & 5/ Fusions + YC5/45 Expts'	?1970, 1979-1981
	One record dated 8 January 1970 possibly in error. The remainder are 13 November 1979-26 November 1981.	

**Research, C.1-C.340**

C.107	'S1. YB1, YB2, YB3, Sp2/0, Sp33, NA1/34'	1978-1979
C.108	21 February 1978-26 September 1979. 'YE3, YE4, YE5'  12 September 1978-8 January 1979.	1978-1979
C.109	'YB2'  18 April 1978-2 December 1983.	1978-1983
C.110	'YM2. YB4/'  1 February-8 May 1979.	1979
C.111	'YL1, YOL1, YD, YG, YOG'  10 May 1979-20 July 1981	1979-1981
C.112	'JMJ[arvis]. YC5/45'  14 January 1980-18 February 1982.	1980-1982
C.113	'Anti-Peroxidase Fusions. YC6, YOC6, NOC3, NOC4. YP4'  6 October 1981-7 September 1983.	1981-1983
C.114	'YOC. YODC'  5 January 1982-16 February 1983.	1982-1983
C.115	'Hybrid 1 Hybrids'  16 November 1982-31 May 1985.	1982-1985
C.116	'Rats', 'P4M2. P4M3. YOM2. Suresh. TE/AB' and 'Book Two. Rat sera/Ascites'	1984-1985

**Research, C.1-C.340**

13 March 1984-18 May 1985.

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

<b>C.117-C.121</b>	<b>'<math>\gamma</math> Hybridomas (Rat) No.2'</b>	<b>1972-1988</b>
C.117	' $\gamma$ Hybrids. 1978 - '  Also inscribed 'Cell lines marked in Green have been lost (7H), or cleared out. J.M.J[arvis]. Blue = on computer'.  6 December 1972-1 October 1986 (bulk of the material 1978-1981).	1972-1986
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)'.  6 December 1978-5 October 1988 (bulk is 1978-1983).	1978-1988
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].  28 January 1980-7 July 1987 (bulk is 1980-1981).	1980-1987
C.120	'YP1 (Bu) (YC6/141HL.Bu)'  19 May 1982-3 January 1984.	1982-1984
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'.  13 October 1982-18 June 1985 (bulk is 1982-1983).	1982-1985

**Research, C.1-C.340**

<b>C.122-C.132</b>	<b>'<math>\gamma</math> Hybridomas No.3'</b>	<b>1978-1986</b>
C.122	'YE1, YE2' 29 August 1978-11 July 1979.	1978-1979
C.123	'YQ1, YOQ1' ca 9 February 1982-ca 16 February 1983.	1982-1983
C.124	' $\alpha$ Somatostatin Fusions. PYC7. HLK' 27 July 1982-1 March 1984.	1982-1984
C.125	' $\alpha$ GAD 19-4-[19]83' 19 April-26 September 1983.	1983
C.126	'YE8. YN 7, 8. YON 1, 2. YN 9, YN 10, YON3, YON4' 18 July-24 November 1983.	1983
C.127	'YM5, YM6, P4M2.' 'YM3, YM4, P4M1, BIOTIN' 8 November 1983-16 April 1984.	1983-1984
C.128	'YM6/YOM3/P4M4. Merlins 5-Meth-Cyt'. '(YOM4. P4M7.)' 29 May-6 December 1984.	1984
C.129	'YG, YOG' 8 November 1984-17 December 1986.	1984-1986
C.130	'YOS1, YS10, P4S1' 15 January-1 March 1985.	1985

**Research, C.1-C.340**

C.131	'EG-BSA. 2C6xMAP2' 2 July-25 September 1985.	1985
C.132	' $\alpha$ RICIN 6-3-[19]85' 6 March 1985-16 January 1986.	1985-1986
<b>C.133-C.141</b>	<b>'Human cells'</b>	<b>1980-2001</b>
C.133	'Spinners. M4 & Misc.' 12 November 1980-22 July 1992 (bulk 1980-1984).	1980-1992
C.134	'HMy2 Fusions etc.' 29 June 1981-13 August 1982.	1981-1982
C.135	'FACS I. RP 31-8-83 - 18-3-86 Analyses' Analyses numbered 1-135. 31 March 1983-14 March 1986. See also C.138, C.139.	1983-1986
C.136	'Clones, Probes, Etc. From: Jos [Even], Luis [?Martin], Tertia [Softley], Andrew [Bradbury], Franco [?Calabi], Caroline [Bilsland], Yung[-Yu]' Individual sections of the binder seem to be the work of named researchers. 12 July 1983-September 1992. Includes paper by Milstein, J. Even, et al (Bibliog. 215, 1985), and letter from M. Claesson <i>re</i> CD1 antigen, rabbit antiserum, etc 2 February 1990.	1983-1992

**Research, C.1-C.340**

- C.137                    'Thymus. HTA/HLA'                    1985
- 11 January-13 September 1985.                    /...
- /...                    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'                    1986-1993
- Analyses numbered 136-248.                    18 March 1986-5  
November 1987.
- 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'                    1987-1989
- Analyses numbered 249-346.                    10 November 1987-11  
August 1989.
- See also C.135, C.138.
- C.140                    '3A12/10B3 a-CD1a Yung Yu'                    1993-1995
- 'Assays' experiments data 16 November 1993-19  
September 1995.
- Includes correspondence with Chack Yung Yu and R.  
Pannell, 1993-1995.
- C.141                    'AK Experiments'                    2000-2001
- Mostly computer printouts 10 August 2000-21 March  
2001.



**Research, C.1-C.340**

<b>C.142-C.168</b>	<b>Group</b>	<b>1985-1999</b>
	<p>Material received from the Laboratory as 'Group' and 'Group 1989-1998'. Group refers to Milstein's group of researchers and those identified include A.G. Fernández, José Yelamos, Cristina Rada, S. Aoufouchi, B. Goyenchea, F. Lozano ('Paco'), M.L. Dreher, Song Tan, M. Craxton and D. Güssow.</p> <p>The bulk of the material was contained in green ringbinders, but occasional material is in the form of a hardback bound notebook.</p>	
C.142	<p>[Untitled]. ?NQ 10, etc.</p> <p>13 April 1985-8 October 1992 (bulk 1989).</p>	1985-1992
C.143	<p>'Methods'</p> <p>Inscribed inside front cover 'Martin Dreher'.</p> <p>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.</p>	ca 1987-1991
C.144	<p>'Vector Maps'</p> <p>25 November-14 December 1988.</p>	1988
C.145	<p>'Constructs. NQ10/12.5'</p> <p>23 November 1988-27 January 1989.</p>	1988-1989
C.146	<p>'NQ Database'</p>	ca 1988
C.147	<p>'Jose. Oligos.'</p>	1991-1999

**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.	
C.148	'Paco's' and '18.81RK Sorts.'  26 November 1991-10 July 1992.	1991-1992
C.149	'Africa II. Experiments'. A4 hardback notebook  Refers to A.G. Fernandez.  3 March-15 December 1992.  Includes intercalated pages, with material including film and photographic data pasted or stapled onto the pages.	1992
C.150	'Paco's Transfections Oct 92'  5 October 1992-20 December 1994.	1992-1994
C.151	'Other Oligos' and 'CDR'  16 July 1992-26 June 1995.	1992-1995
C.152	'Cristina [Rada]. RPE L15'  21 December 1992-2 March 1995.	1992-1995
C.153	'Peyers Patch Fusions' and 'Africa'  18 May 1993-25 September 1995.	1993-1995
C.154	'Africa. MRC'  25 November 1993-5 May 1995.  Includes slides and photographs of laboratory mice playing uncaged.	1993-1995

**Research, C.1-C.340**

C.155	'MOD (BG) FUSION'  26 November 1993-20 July 1995.	1993-1995
C.156	Research folder.  'RNA Experiment. José [Yelamos] Cell Prep[aration]'.  25 March-6 November 1994.	1994
C.157	'Mediterraneo'. A4 hardback notebook  Bears A.G. Fernández's 'trademark' symbol on the spine.  9 May 1994-11 May 1995.	1994-1995
C.158	'S107 + neo - $\theta$ ' and 'José [Yelamos]. C[ristina] Rada. Trans F[ections]. CDRNG/Y2'  5 May 1994-5 September 1995.	1994-1995
C.159	'Africa. César'  12 December 1994-10 May 1995.  Includes two letters to Milstein from Fernández, n.d., and data entitled 'César's Project material'.	1994-1995 and n.d.
C.160	'Animals'. 'Southern Blot CDR/NG and other'  6 January 1994-21 May 1996.	1994-1996
C.161	'20.1.95 - 3.4.96'. A4 hardback notebook  Notebook probably used by J. Yelamos.  21 November 1994-3 April 1996.  Includes photographs and other data pasted onto the pages, and intercalated material.	1994-1996
C.162	'EMBO Paper Experiment [...]'	1994-1997

**Research, C.1-C.340**

12 November 1994-13 January 1997.

C.163 'Copy D Animals' 1995-1996

24 August 1995-25 April 1996.

Includes material found with the research folder marked 'CJS Project'.

C.164 'CDR/NG Hybridomas' 1995-1997

30 January 1995-29 October 1997.

C.165 'Original ?[illegible] gfp work. Jim Haselloff[f] Contract. José [Yelamos]' 1995-1997

18 February 1995-2 December 1997.

C.166 'ES José [Yelamos]' 1996-1997

3 October 1996-25 September 1997.

Includes published papers, and research correspondence.

C.167 'LGST Animal Analysis' 1996-1998

16 May 1996-14 July 1998.

C.168 'José [Yelamos]' 1997-1998

16 January - 25 August 1998, with one manuscript sheet dated 29 May 1997.

**C.169-C.195 'Group R.A's' 1983-1996**

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

**Research, C.1-C.340**

related research data, found loose or in cardboard folders. Titles and dates given where known. Includes much outsize material.

C.169	Untitled  8 March 1983, 1 and 5 September 1995.	1983, 1995
C.170	Untitled  20 April 1992-27 April 1994.	1992-1994
C.171	'ELK 3/6. Africa's 1st paper' and 'Peyer Patches'  Three subdivisions: 'B220+ PND high ELK 5559', 15 January 1993; 'ELK 5559 Total Cells', 16 and 29 January 1993; 'C. Transgenic ELK 3 5563 & isolated PP (sorted B220+ PND high)', 9 February 1993.	1993
C.172	DNA research data, 20 July	1993
C.173	'MOD sequences' and '?8'  A.G. Fernandez' research data, 22 December 1993 and n.d.	1993 and n.d.
C.174	'Seq[ui]ence] 422 Gel #2 12.3.[19]94. MOD #4, #0. P high. 1st tube'  14 March 1993; 17 March and 31 April 1994; and n.d.	1993-1994 and n.d.
C.175	'Africa's NER, DEL, EXO. Mio &'  Includes copies of papers by Fernandez and Milstein (Bibliog. 276, 1993), and Fernandez and Milstein and D. Gilmore (Bibliog. 283, 1994).	1993-1996
C.176	Several sets of film sheets and research data  19, 31 January 1994 and n.d.	1994, n.d.

**Research, C.1-C.340**

C.177	'MOD Hybridomas mouse 8 ? . Tag. PoL' 13 April 1994-23 June 1995.	1994-1995
C.178	'Gel #11. Reexponer. 5/5/94. 479 MOD p High.' 'Gel #12 Reexponer 5/5/94'	1994
C.179	'Sequences from CDR/NG' 30 September 1994, 13 October 1994 and n.d. Originally found tied together with C.180.	1994, n.d.
C.180	'CDR/NG 6236 Hybridomas Neo'. 21 November 1994-19 August 1995. Originally found tied together with C.179.	1994-1995
C.181	'BEA/T7/25.10.[19]94. F5 and F6 seq. 212 oligo in M13 mp 18' Also inscribed 'Conclusion: Esto es una basura hay que repetirlo'. ca 25 October 1994.	1994
C.182	'CDR / 1st mouse' 9-17 December 1994 and n.d.	1994, n.d.
C.183	'Bea[?trice P.] 16/1/95', 'LK-? in ENG' and 'ENG 505 Peyer's P[atches]' 16 January 1995	1995
C.184	Gels 1-11	1995

**Research, C.1-C.340**

31 January-23 February 1995.

C.185	'CDR/NG 2nd mouse' 17-27 February 1995 and n.d.	1995
C.186	'CDR/NG Hyb[ridomas]' 28 February-28 September 1995 and n.d.	1995, n.d.
C.187	'Core 56/72. Gels: 1, 2, 3, 4. 56 - 7; 8 - core 72' 9 May-8 June 1995 and n.d.	1995
C.188	'CDR/NG Hybridomas' 13 May 1995 and n.d.	1995
C.189	'DEL Core Data' 16 May 1995 and n.d.	1995
C.190	'Gels 1, 2, 3 MOD Hyb[ridomas]. Gel 7 Core 56. 32-22' 30 May 1995 and n.d.	1995
C.191	Untitled Mostly ca 15 June-21 September 1995, and n.d. Includes earlier material dated 8 March 1983.	1983, 1995, n.d.
C.192	Untitled 30 November - 2 December 1995 and n.d.	1995, n.d.

**Research, C.1-C.340**

C.193	Untitled 30 August 1996 and n.d.	1996
C.194	Untitled 3 September 1996 and n.d.	1996 and n.d.
C.195	Untitled 17 December	?1998
<b>C.196-C.206</b>	<b>'Misc. Lab. Notebooks'</b>	<b>1983-1996</b>
C.196	'M4 NOE2' 7 February-7 July 1983	1983
C.197	'Ongoing TC. 1983-[19]85. RP' 22 October 1983-20 October 1986.	1983-1986
C.198	'J558 Cloning' 19 June-10 December 1984.	1984
C.199	'General Electropor[ation] Index + Lysosyme Transfections' 6 May 1987-18 April 1988.	1987-1988
C.200	'Oligos from Martin [Dreher]' 26 June 1987-ca 7 December 1990.	1987-1990
C.201	'Transfections contd. E79-' 7 August 1987-6 September 1991.	1987-1991



**Research, C.1-C.340**

C.202	'Oxazolone. Transgene. T-ox 4.2.[19]87. 2-ox 11.2.[19]87' 4 February 1987-29 January 1992 (bulk 1987-1988).	1987-1992
C.203	'Transfections Oxazolone OX/AC0 TAG expts' 7 August 1987-12 June 1990. Includes letter from A.G. Fernández, 28 November 1996.	1987-1996
C.204	'NS1 s35 Jan.[19]90-' 20 November 1989-10 May 1990.	1989-1990
C.205	'FACS IV inc. Mouse spleen expts' and 'IgG-IgM. Ox-Biotin' 5 September 1989-28 July 1992.	1989-1992
C.206	'SAID [10H Clones]' 16 May-7 August 1995.	1995
<b>C.207-C.279</b>	<b>Research binders: J.M. Jarvis</b>	<b>ca 1969-2002</b>

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'	
<b>C.207-C.232</b>	<b>'CM/JMJ Lab. Notebooks'</b>	<b>1969-2002</b>
	<p>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.</p>	
C.207	'Mouse [?] RNH'  19 March 1969-7 May 1970.	1969-1970
C.208	'Hot & cold prep[aration]s. 1971-[19]73'  15 June 1971-21 February 1973.	1971-1973
C.209	'Met incorp[oration]s. 1973-74'  25 March 1971-20 February 1973.	1971-1973
C.210	'Myeloma mRNA 32p'  13 June 19[?72]-16 June 1975.	ca 1972-1975
C.211	'Cell Library' and '[...] In Container 7. Cells are not to be removed from Library without prior consultation with C. Milstein'  3 November 1972-7 February 1991.	1972-1991
C.212	'Spinner Records'  12 December 1973-10 February 1981.  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.	1973-1981

**Research, C.1-C.340**

C.213	<p>'Shirley Howe 1975-77'</p> <p>ca 13 May 1975-2 March 1977.</p>	1975-1977
C.214	<p>'Cells. So2. NT1. Misc. Andreas [?B...] etc Plaquing &amp; spot tests. N.B.NH 2 &amp; 3 now in separate binder'</p> <p>20 April 1976-6 April 1979.</p>	1976-1979
C.215	<p>'Rat/mouse hybridomas'. '[J.]Schröder. Human lines'</p> <p>17 October 1977-16 April 1981.</p>	1977-1981
C.216	<p>'NA1/34 etc.'</p> <p>Also inscribed 'Mouse sera [alpha] Purified Protein. No entries without my agreement CM 14/12/79'.</p> <p>7 August 1977-17 September 1999, bulk 1977-1984.</p>	1977-1999
C.217	<p>'Mutants. X63 F2.19 NSII/1.28 NSO X27'</p> <p>25 June 1979-17 May 1983.</p> <p>Including a little copy data 1966 and 1968 possibly used for comparison of results.</p>	1979-1983
C.218	<p>'Rat sera <math>\alpha</math> Purified Protein'</p> <p>30 May 1979-14 July 1998.</p>	1979-1998
C.219	<p>Variously labelled 'NF20. MRC-OX.12. NH3/130. Spl/HL. M241. NUT/2. WM.25. PHM3', 'Protein P Sepharose Purifications' and 'X63. NH60. U3/13. 3A1. W3/15. Sp2. W6/34. H9/5. W6/32. BBM.1. NOE2/6. NOE2/8. PCS. HPC1.12. T15. D47. D1.3'</p> <p>14 October 1981-9 December 1991.</p>	1981-1991

**Research, C.1-C.340**

C.220	'Methods'  ca 19 August 1981-23 July 1987.	1981-1987
C.221	'HPLC'. 'MOND-Q. GF250'  24 August 1983-6 February 1986.	1983-1986
C.222	'I.E.F. PAS, 2D, Westerns'  17 January 1985- 27 October 1987.  The 'Spinner Records' material (C.212) was found with this binder but probably in error. There is no apparent subject connection between the items.	1985-1987
C.223	'in situ Hybridisation. BIOTIN - Luminol. BIOTIN Probes'  Used 14 June 1985-4 February 1987.  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.	1985-1987
C.224	'AGPT assays'  2 December 1988-1 August 1989.	1988-1989
C.225	'mRNA. Prep[aration]. & sequencing'  11 May 1988-24 July 1990 (mostly 1988).  Includes paper by Milstein and G.M. Griffiths, Bibliog. 209 (1985).	1988-1990
C.226	'Transgenic. ELISA's'  14 March 1994-21 December 1995.	1994-1995

**Research, C.1-C.340**

C.227	'Transgenics. CM' 12 August 1994-20 August 1997 (mostly 1994).	1994-1997
C.228	'Sorts and Cytopluorimeter' 1 June 1998-14 September 1999.	1998-1999
C.229	'Hot Spots Folder' Dated material is ca 20 February-ca 2 June 1998.	1998 and n.d.
C.230	'LG Enhancer transfections 2000' 21 September 1999-10 October 2001. Including photocopied method documents, 1991 and 1993.	1999-2001
C.231	'Transgenics. PCR (151-.)' PCR numbers 151-208. 13 August 1999-27 August 2002. For PCR nos 1-52 see C.264 and nos. 53-150 see C.268.	1999-2002
C.232	'Transgenics. SABU stock' 5 January 2001-2 September 2002.	2001-2002
<b>C.233-C.246</b>	<b>'JMJ Lab. Notebooks'</b>	<b>1998-2002</b>
C.233	'RGFP Transfections/NRG Fusions Feb 1998' 16 January-11 November 1998.	1998

**Research, C.1-C.340**

C.234	'PARP' 23 March 1998-23 June 1999.	1998-1999
C.235	'RGFP fusions' 13 May 1998-18 August 1999.	1998-1999
C.236	'CELL' 6 July-16 August 1999.	1999
C.237	'RGFP44Ag 1 ssc Aug/Sept 99' 31 August 1999-8 December 2000.	1999-2000
C.238	'R13 lo.8 time courses' 23 September 1999-5 January 2000.	1999-2000
C.239	'R13 lo.8 ssc/DNA' 26 October 1999-10 May 2000.	1999-2000
C.240	'JMJ's SWITCH' 26 November 1999-20 December 2000.  Including earlier copy material etc., 1996-1998, and letter <i>re</i> cell line distribution to Cristina Rada, 6 June 2000.	1999-2000
C.241	'2000/1 Fusions' 7 February 2000-9 May 2001.	2000-2001
C.242	'RHA 2' 15 March-19 November 2001.	2001

**Research, C.1-C.340**

C.243	'DT40' 22 May-22 October 2001	2001
C.244	'JMJ's SWITCH 2001/2' 7 February 2001-7 May 2002.	2001-2002
C.245	'2002. Ramos. RhA2. RGFPv' 19 November 2001-2 September 2002.	2001-2002
C.246	'RGFP v' 21 November 2001-25 February 2002.	2001-2002
<b>C.247-C.257</b>	<b>'JMJ Oxazolone'</b>	<b>1981-1993</b>
C.247	'NQ1-8 (Primary). Protein A. Sepharose purif[ication]s' 16 September 1981-11 December 1986.	1981-1986
C.248	'NQ. Assays & Misc. Plague. Prot A binding. R1A. ELISA-Kinetics' 9 November 1981-22 January 1988.	1981-1988
C.249	'Ox GABA Prep[aration]s' 6 December 1983-8 November 1985.	1983-1985
C.250	NQ 10 - (Secondary). Protein A - Sepharose purif[ication]s' 12 September 1983-12 May 1989.	1983-1989
C.251	'NQ Recomb[inants]'	1983-1991

**Research, C.1-C.340**

29 August 1983-8 January 1986; one entry 24 September 1991.

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

C.252	'Equil[ibrium].Dial[ysis] NQ'	1984-1987
	ca 21 February 1984-20 November 1987.	
C.253	'Prep. NQ H $\alpha$ L chains'	1985-1986
	16 July 1985-3 January 1986.	
C.254	'NQB Fusions & Assays'	1987-1988
	16 June 1987-28 April 1988.	
C.255	'NQ (Tertiary)'	1987-1993
	9 November 1987-10 December 1993.	
C.256	'NQB Cloning & Results'	1988
	21 January-30 August 1988.	
C.257	'NQP. NQ2S'	1989-1991
	6 June 1989-4 November 1991.	
<b>C.258-C.268</b>	<b>'JMJ Transgenics'</b>	<b>1993-1999</b>

Each binder was labelled 'Transgenics', with secondary labels as given below.



**Research, C.1-C.340**

C.258	<p>'Methods'</p> <p>Laboratory experiment instructions, etc., including photocopy material, some dating to 1986. 14 July 1993-14 May 1997.</p>	1993-1997
C.259	<p>'CBS. Stock. Dunn. L.Farm'</p> <p>Used 18 December 1993-25 April 1997.</p>	1993-1997
C.260	<p>'Constructs'</p> <p>19 July 1993-20 March 1998.</p>	1993-1998
C.261	<p>'Stock. LEA, LIS 1718, LIS 1922, LK 1924, LO 3033'</p> <p>15 May 1994-12 September 1996.</p>	1994-1996
C.262	<p>'Southernns 1-50'</p> <p>1 March 1995-10 March 1997.</p> <p>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.</p>	1995-1997
C.263	<p>'ES Cells'</p> <p>23 May 1995-10 September 1997.</p> <p>Includes Southern nos. 55 and 57.</p> <p>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.</p>	1995-1997
C.264	<p>'PCR'</p> <p>Including PCR nos. 1-52 (1997) and earlier PCR (1995). 8-19 September 1995 and 23 April-8 December 1997.</p> <p>For PCR nos 53-150 see C.268 and nos 151-208 see C.231.</p>	1995-1997

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C.265	'ELISA Assays. 8/1/96-18/12/96'	1996
C.266	8 January-18 December 1996. 'ELISA Assays. 7/1/97-'  7 January-17 October 1997.	1997
C.267	'Southernns 51-. '  Southern nos. 51-66. 7 April-15 December 1997.  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.	1997
C.268	'PCR (53-150)'  PCR Nos. 53-150. Used 9 January 1998-1 July 1999.  For PCR nos 1-52 see C.264 and nos 151-208 see C.231.	1998-1999
<b>C.269-C.279</b>	<b>'JMJ Misc.'</b>	<b>1981-1997</b>
C.269	'JMJ M4 Exp[erimen]ts. Prep[aration]. Rabbit a HTA IgG'  18 February 1981-15 April 1987.	1981-1987
C.270	'CD1. (LM) (FC) (AW) (AB) (TB)'  Used 18 February 1986-9 December 1992 but with gap between 1989 and 1991.	1986-1992
C.271	'Transfectant Work'  23 September 1988-29 November 1990.	1988-1990
C.272	'Current Tissue Culture'  1 February 1988-21 September 1992.	1988-1992

**Research, C.1-C.340**

C.273	'Primers' 16 February 1988-3 October 1993.	1988-1993
C.274	'NQC' 19 February-4 April 1991.	1991
C.275	'Martin [Dreher]. Mutants' 21 January 1991-17 July 1992.	1991-1992
C.276	'BET. ERM' 11 September 1991-7 October 1992.	1991-1992
C.277	'PHYCO. RPE-FaB' 26 January-26 July 1993.	1993
C.278	'Africa [Gonzalez Fernandez]. Peyer's patches. Ox Low. Ox High. LK3 Lou' 14 May-15 July 1993	1993
C.279	' $\mu$ M' 5 February 1994-7 August 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.	1994-1997
<b>C.280-C.323</b>	<b>ADMINISTRATION OF RESEARCH</b>	<b>1967-2001</b>
C.280-C.320	Distribution of samples	

**Research, C.1-C.340**

C.321-C.323                      Funding of research

**C.280-C.320                      Distribution of samples                      1967-1996**

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.

C.280                      Correspondence                      1967-1977

Some in Spanish and French.

C.281                      Notes, data, references etc, and correspondence *re* possibility of Flow Laboratories Ltd, Irvine, Scotland 'handling the commercial production of monoclonal antibodies'                      1974-1979

C.282                      'Cell Lines Sent'                      1976-1981

Small hardback notebook listing cell lines sent: 'who and where sent to' and 'vol[ume]'.  
Some intercalated pages.

C.283                      Correspondence                      1976-1978

C.284-C.293                      Contents of Milstein's individual folders of correspondence and notes, with year marked on the original folder front cover. The span of the documents within matches the year marked. Some folders contained only a few letters while others are more substantial.                      1976-1985

C.284                      '1976'

**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 Original folder marked 'Misc. Cell lines sent'.	1978-1985
C.295	Correspondence, and lists of 'Names and Addresses for Dr Milstein's rat cell lines' January 1979-January 1980.	1979-1980
C.296	Correspondence including cell line despatch information June 1979-December 1980.	1979-1980

**Research, C.1-C.340**

C.297	'Y3 1979-1980'  Correspondence including cell line despatch and receipt information December 1979-December 1980.	1979-1980
C.298	'Rat Letters. Misc.'  January 1979-February 1986.	1979-1986
C.299	'Cheques received and given to Admin.'  Correspondence October 1979-February 1986.	1979-1986
C.300	'Permission/Collected. To be added to list'  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.	1979-1988
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'.  Correspondence and signed conditions.	1979-1986
C.302	'(A-E)'	1980-1985
C.303	'(F-M)'	1979-1985
C.304	'(N-Z)'	1979-1986
C.305	'Sera-Lab'  Contents of folder so inscribed: correspondence, research data, copy agreements <i>re</i> 'Growing cultures' etc.	1980-1987

**Research, C.1-C.340**

C.306	'Mouse Cell Line conditions etc'  Contents of folder so inscribed.	1980-1988
C.307-C.309	'Y3/YO'  Three folders of correspondence and despatch lists etc.	1982-1986
C.307	'1981-1982'	
C.308	'1983'.	
C.309	'1984-86'	1983-1986
C.310	'Hybridomas Sent'  Correspondence and cell line despatches.  Includes two photographic slides.	1981-1985
C.311	Letter from R. Linke and C. Hübner-Parajsz of Boehringer Mannheim, Germany <i>re</i> the 'myeloma cell line NS 0/1', 28 July 1982	1982
C.312	List of 'CM Rat Lines - January 1982 to January 1985'	1982-1984
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.	1984-1985
C.317	'Misc. Rat lines 1984, 85'  Brief correspondence and cell line despatch data March 1984-March 1985.	1984-1985
C.318	'Documentation'  Mostly pro formas <i>re</i> cell lines sent 'To ECACC for distribution'.	ca 1984-1986
C.319	Letter to J.M. Jarvis from A. Cambrosio <i>re</i> 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.	1993
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.	1996
<b>C.321-C.323</b>	<b>Funding of research</b>	<b>1992-2001</b>
C.321	Correspondence and papers <i>re</i> grant applications and renewals.	1992-1997
C.322	Correspondence and papers <i>re</i> research grant applications and renewals.	1993-2001
C.323	3pp manuscript draft grant application 'Somatic hypermutation of antibody genes'	ca 1995



**Research, C.1-C.340**

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**

	Includes patents for 'Double-headed antibodies' and 'Hybrid Antibodies', 1983-1984 and papers of Celltech board meeting November 1981.	
C.327	'Paired helical filament core and antibody thereto useful in diagnosing Alzheimer's disease', US patent application no. PCT/GB88/00867, filed 19 October 1988	1988
C.328	'Single step cloning'  Contents of folder so inscribed: correspondence and papers <i>re</i> patents 'Single Step Cloning and Selection of Hybridomas' 1989 and 1992; 'A Method for the Identification and Selection of Antibody Producing Cells' 1990; 'Production of antibodies from transgenic animals' 1991; and 'Somatic Hypermutation to Heterologous Sequences' proposed patent 1995.	1989-1995
C.329	'Adrian [Woolfson]/CM Project'  Contents of folder so inscribed:correspondence and papers <i>re</i> 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	2000-2001
C.329A	'Woolfson'  Contents of folder so inscribed: correspondence and papers <i>re</i> soluble CD project.  CLOSED UNTIL 2078	1999-2002
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 <i>re</i> development of the patent, international patent applications and licensing agreements.	1991-1997

**Lectures and publications, D.1-D.152**

<b>C.331-C.336</b>	<b>Cell line licensing</b>	<b>1979-1996</b>
C.331	<p>'Miscellaneous Industry (Companies etc)'</p> <p>Contents of folder so inscribed: proposed renewals of existing licences and commercial collaborative agreements between MRC and others etc.</p>	1979-1993
C.332	<p>Cell line licensing agreements, etc. and Milstein's granting of permission requests <i>re</i> utilisation of Y3 and YO and other cell lines</p>	1982-1996
C.333	<p>'Serotec'</p> <p>Contents of folder so inscribed: correspondence and papers <i>re</i> proposed collaborative agreement between Milstein (for the MRC) and Serotec Ltd <i>re</i> commercial retailing distribution of cell lines and research reagents.</p>	1983-1985
C.334	<p>Cell line sale request by J. Klotz of the City of Hope National Medical Center, Duarte, California, USA, and Milstein's permission</p>	1984
C.335	<p>'[CD1] Clones'</p> <p>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.</p> <p>Including copy agreements, accounts and receipts, and despatch details of clones sent.</p>	1987-1996
C.336	<p>'CD1'</p> <p>Contents of folder so inscribed: requests for CD1 clones and collaboration proposals.</p> <p>Includes mailing lists for 'CD1 Papers' and for 'AB</p>	1990-1992

**Lectures and publications, D.1-D.152**

Diversity'.

<b>C.337-C.340</b>	<b>Miscellaneous material <i>re</i> patents</b>	<b>1986-1996</b>
C.337	<p>Correspondence <i>re</i> commercial exploitation of monoclonal antibodies</p> <p>This correspondence arose from Milstein's attendance at a Downing Street luncheon hosted by the Prime Minister Margaret Thatcher.</p> <p>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'.</p>	ca 1987-1989
C.338	<p>Papers <i>re</i> H. Waldmann's patent 'Improvements in or relating to antibody preparations', US patent application no. 624,205, filed 21 March 1988.</p> <p>Includes Milstein's Declarations in support.</p>	1986-1989
C.339	<p>Correspondence and papers <i>re</i> Milstein's advice on 'A process for the preparation of antibodies by genetic engineering'</p>	1987-1988
C.340	<p>'Winter Patents'</p> <p>Contents of folder so inscribed: correspondence and papers chiefly <i>re</i> proposed patent on '...displaying antibody fragments on retroviruses' taken out by G.P. Winter.</p> <p>Includes 'MRC licencing policy on Winter patent', 4 January 1988, and 'Appendix 2 to report by Winter on Patent Position and History of New Antibody Technology'.</p> <p>Winter was Milstein's long time friend and collaborator.</p>	1988-1996

**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                      1960s-1999 and  
n.d.**

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                      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                      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                      ca 1966

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

Found in folder inscribed 'Department of Biol[ology 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<br><br>Programme for Lent Term lectures.   | 1968      |
| D.5      | Lecture for 'Paris 26 Nov 1968'<br><br>Correspondence, some in French, 17pp draft lecture notes, and paper on 'Structure of Antibody Molecules' by Milstein and S. Cohen.<br><br>Identified by inscription on original folder.<br><br>The original lecture had been cancelled due to '...the events which kept France in a turmoil' and was rescheduled for 26 November 1968. | 1967-1968 |
| D.6      | ?'The Structure of Ig and genetic implications', Department of Genetics, University of Cambridge, 18 November 1969.<br><br>Seminar on 'sequence studies on immunoglobulins and their genetic implications', being one in a series of seminars at the Department.<br><br>3pp draft lecture notes, and invitation and reply.  | 1969      |
| D.7      | 'The Nature of Ab variability', Department of Biochemistry, University of Bristol, 13 March 1970<br><br>2pp draft lecture notes.  | 1970      |
| D.8-D.12 | Visits to USA, April-May 1979<br><br>The material includes papers relating to earlier visit, 1978, and return visit in November 1979.<br><br>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'.                                     | 1978-1979 |

**Lectures and publications, D.1-D.152**

- |      |  |           |
|------|--|-----------|
| D.8  | 'Lectures. Berkeley 1978' as marked on original folder.  | 1978      |
| /... | 58pp draft lecture notes.<br>Titles are not given or are unclear.  | /...      |
| D.9  | Nelson Medical Lecture, Davis Campus, University of California, USA, 1978-1979.<br><br>Brief correspondence.   | 1978      |
| D.10 | Talk at Brandeis University, Waltham, Massachusetts, USA; and Philip Levine Lecture, Rockefeller University, New York, USA, April or May<br><br>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<br><br>Correspondence.<br><br>This material with that at D.12 was found grouped together and marked 'USA Nov. [19]79'.                                    | 1979      |
| D.12 | 'Production and uses of Monoclonal Antibodies', 3rd Smith Kline and French Laboratories Lecture, Temple University School of Medicine, Philadelphia, Pennsylvania, USA, 13 November 1979.<br><br>Correspondence.<br><br>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.<br><br>Correspondence and notice.    | 1979-1980 |

**Lectures and publications, D.1-D.152**

- |      |   |                       |
|------|---|-----------------------|
| D.14 | <p>Hardback notebook of lecture notes, with loose sheets intercalated</p> <p>Includes 'Talk at MRC Cell board in 1980?', 'Mattia Lectureship', and 'NYU Seminar: Mutants of Structure and secretion of Ab'</p>  | 1980                  |
| D.15 | <p>Hardback spiral-bound notebook of lecture notes</p> <p>Includes 'Lab Talk 1980', 'CAMR (Porton) 3 May 1985', 'Lab Talks - 1985', 'Dissecting the immune response' University College London, 17 Jan 86 and Department of Biochemistry, Bristol, 20 January 1986.</p>   | 1980-1986 and<br>n.d. |
| D.16 | <p>11th Sir Hans Krebs lecture, University of Edinburgh, 3 April 1981</p> <p>Letter, 9pp notes and 1p annotated table.</p>  | 1981 and n.d.         |
| D.17 | <p>'Derivation and use of monoclonal antibodies', 13th Jimenez Diaz commemorative Lecture, Fundacion Conchita Rabago de Jimenez Diaz, Madrid, Spain, 19 May 1981</p> <p>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.</p> <p>Also programme for 12th commemorative lecture, May 1980, and nominations for the 14th lecture in 1982 with Milstein's annotations.</p> | 1980-1981             |
| D.18 | <p>'Myelomas can be useful', Foundation Lecture, Royal College of Pathologists, London, 17 November 1981</p> <p>Correspondence and 20pp draft lecture notes.</p>  | 1980-1981             |
| D.19 | <p>'Thursday lunch Seminar', ?Cambridge</p> <p>2pp manuscript draft lecture notes.</p>  | ca 1981-1982          |



**Lectures and publications, D.1-D.152**

- D.20 'From Antibody Diversity to Monoclonal Antibodies', Brown-Hazen Fund Lecture, Division of Laboratories and Research, New York State Department of Health, Albany, New York, USA, 7 January 1982 1981-1982
- Correspondence, some in Spanish, and programme.
- 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.
- D.21 'Messing about with isotopes and enzymes and antibodies', 13th Lynen Lecture at the 14th Miami Winter Symposium 'From gene to protein: Translation into biotechnology', Miami, Florida, USA, 11 January 1982 1980-1982
- Correspondence and programme, and 32pp typescript draft lecture notes with manuscript corrections, annotated an 'Early manuscript...'. .
- D.22 'Monoclonal Antibodies: A Windfall of Basic Research', Annual Korner Lecture, University of Sussex, Brighton, 5 March 1982 1982
- Brief correspondence.
- D.23 'Monoclonal Antibodies', Papworth Hospital, Cambridge, 15 April 1982 1982
- Brief correspondence.
- 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.
- D.24 '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 1981-1982
- Correspondence.
- The lectureship included the award of a gold medal, and

**Lectures and publications, D.1-D.152**

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

- D.24A 'Monoclonal Antibodies: A Windfall of Basic Research', Foundation Lecture, Fitzwilliam College, Cambridge, 23 November 1982 1982
- 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 1982-1983
- 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] 1983-1984
- 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 1983-1984
- Correspondence and 10pp typescript draft lecture notes.
- D.28 Hardback notebook of draft lecture notes (front cover missing) with intercalated material 1984
- Includes 'Colloquio Gimenez Diaz'.
- Mostly in Spanish.

**Lectures and publications, D.1-D.152**

- D.29 'Dissecting the immune response', David Henderson Memorial Lecture, Public Health Laboratory Service, Centre for Applied Microbiology and Research, Porton Down, Wiltshire, 3 May 1985. 1984-1985  
Correspondence.
- D.30 'Notes for Talk. Meeting at Carry on Idiotypes', 'Published in Annals reread today 7 October 1985' 1985  
6pp manuscript draft lecture notes.
- D.31 'Notes for Australia' ca 1985  
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 1985-1986  
Correspondence, joint programme (agenda) and itinerary.
- D.33 'Dissecting the immune response', European Molecular Biology Laboratory, Heidelberg, West Germany, 4 February 1986 1985-1986  
Correspondence and itinerary.
- D.34 'Dissecting the immune response', Lady Margaret Lecture, Christ's College, Cambridge, 24 April 1986 1984-1986  
Brief correspondence, programme and notice.
- D.35 Lecture at the Academia Médico Quirúrgica de Pontevedra, Galicia, Spain, May 1986 1985  
Correspondence, some in Spanish, and itinerary.

**Lectures and publications, D.1-D.152**

- D.36                    ‘Diversity and the genesis of high affinity antibodies’, Sir Frederick Gowland Hopkins Memorial Lecture on the occasion of the joint symposium on ‘Molecular Pathology’ for the 50th Anniversary of the Wellcome Trust and the 75th Anniversary of the Biochemical Society, London, 17 December 1986                    1986-1987
- 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                    1987
- Two letters of thanks.
- D.38                    ‘Antibodies in Diagnosis and Therapy’, Damon Biotech Lecture at the University of Edinburgh, 1 May 1987                    1987
- Brief correspondence, itinerary, 14pp typescript draft lecture notes, etc.
- D.39                    Spiral bound softback notebook of draft lecture notes inscribed ‘Lab[oratory] Seminars’                    1987-1996
- Used from the front and from the back 23 October 1987- ca 30 October 1996.
- Includes ‘Darwinian character of the somatic maturation of the antibody response’, n.d.; lecture (untitled) for the Gordon Conference August 1990; and Severo Ochoa Memorial Lecture (untitled) September 1994.
- D.40                    ‘Agradecimiento por el Dr Honoris Cause Diciembre 1987’                    1987
- 3pp draft notes for ?speech of thanks for honorary degree.
- D.41                    ‘Discoveries’ Series Lecture at Darwin College, Cambridge, 5 February 1988                    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   | 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  | 1988      |
|           | Correspondence.   |           |
|           | This was a ‘...proposed collaborative venture between Cambridge and McGill’ culminating in Milstein’s lectureship event.  |           |
| D.44      | ‘The Potential of Biotechnology in Argentina’, lecture in Buenos Aires, Argentina, 13-31 March 1989   | 1988-1989 |
|           | Correspondence, some in Spanish, and 2pp draft lecture notes.   |           |
| D.45-D.47 | ‘Antibodies: a paradigm for the biology of molecular recognition’, The Croonian Lecture, Royal Society, London, 27 April 1989   | 1988-1989 |
|           | 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   | 1988-1989 |
|           | Correspondence; notice; 24pp typescript ‘Original text...’;   |           |

**Lectures and publications, D.1-D.152**

typescript with manuscript corrections; figures, references etc.

- |      |  |           |
|------|--|-----------|
| D.46 | Croonian Lecture at Oxford, 1 May 1989   | 1989-1989 |
|      | 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).  |           |
| D.49 | ‘What Next?’, unidentified summary lecture, 1989   | 1989      |
|      | 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 <i>re</i> 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**

- D.52                      Rodney R. Porter Memorial Lecture, Joint Meeting of the British Society for Immunology and the Société Française d'Immunologie on 'The Immune Repertoire', London, October 1991                      1990-1991
- Correspondence including notices, and 9pp typescript draft lecture notes.
- 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                      1991-1992
- 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...'.  
  
Milstein lectured on 'Antibodies'; 'High affinity antibodies: The animal strategy'; and 'High affinity antibodies without animals'.
- D.54                      'Monoclonal antibodies - from patents to patients', talk to Bloomsbury Molecular Biology and Medicine Dining Club, University College London, 20 May 1993                      1993
- Correspondence.
- D.55                      Peter Gorer Lecture given 'at the beginning of the BSI Annual Congress in Harrogate', Yorkshire, December 1994                      1994
- Brief correspondence, 7pp typescript and 1p manuscript draft lecture notes.
- D.56                      Lecture at the Cambridge 41 Club, Jesus College, Cambridge, 14 February 1996                      1995-1996
- 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.

**Lectures and publications, D.1-D.152**

D.57	'The Darwinian character of the maturation of the immune response' (proposed title), T.H. Huxley Lecture at the University of Birmingham, 25 April 1996	1995-1996
/...	Correspondence <i>re</i> arrangements.	/...
D.58	Proposed Lecture on 'CD1' at the Antibody Club, London, September meeting, 1996	1996
	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.

D.64	<p>'The Many Faces of CD1', lecture by Milstein, C. Yung Yu, A. Woolfson, J.M. Jarvis, and J.M. Skehel</p> <p>Manuscript draft letter (fax) to C. Yung Yu, and 6pp typescript draft lecture notes with manuscript corrections, with 1p figures.</p>	N.d.
D.65	<p>'Speech 25th Anniversary'</p> <p>7pp typescript draft lecture notes for 'MRC Meeting'.</p>	N.d.
D.66	<p>'Notes for plenary lecture at Cytology Workshop'</p> <p>13pp typescript draft lecture notes with manuscript corrections n.d.</p>	N.d.
D.67	<p>'Notes for Lectio Magistralis, Bahía Blanca (European School of Oncology)', Argentina</p> <p>25pp manuscript and typescript draft lecture notes, the cover sheet is inscribed 'B[ahia]. Blanca'.</p>	N.d.
D.68	<p>'Notes for "Darwin Discovery" lecture' amended, with first page marked 'Changes for Canada'</p> <p>21pp manuscript and typescript draft lecture notes with corrections.</p>	N.d.
D.69	<p>'Lectures'. Contents of Milstein's folder so labelled</p> <p>Miscellaneous untitled typescript and manuscript draft lecture notes, including 6pp typescript in Spanish.</p>	N.d.
D.70	<p>17pp manuscript draft lecture notes and 2pp references, and 12pp notes on proceedings</p>	N.d.
D.71	<p>8pp miscellaneous draft manuscript ?lecture notes.</p>	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                      1959

Found in folder inscribed 'T.C.', 'K+ [?Kt] Activation of aldehyde dehydrogenase'.

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.
- D.75 'The interchain disulphide bridge in B[ence-]Jones protein and in  $\gamma$  globulin B chains'. Bibliog. 25, 1965.  
Contents of folder so inscribed: 11pp manuscript draft paper with 5pp tables and figures, including photographs for plates, n.d. [1965].
- D.76 'A model for the interchain disulphide bond formation in Immunoglobulins', ca 1966. Not listed in Bibliog. ca 1966  
Annotated by Milstein 'Written about the time of 1st International Congress of Immunol[ogy]?'  
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.
- D.77 'The distribution of O-phosphoserine in history and other protein fractions of Chinese Hamster ovary cells' (amended title), ca 1967. Not listed in Bibliog. 1967  
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.
- D.78 Citation classic: 'A possible precursor of immunoglobulin light chains', with G.G. Brownlee et al. Bibliog. 67, 1972 1986  
Brief correspondence.
- D.79 'Continuous cultures of fused cells secreting antibody of predefined specificity', with G. Köhler. Bibliog. 97, 1975 and Bibliog. 306, 2000. 2000  
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 'N6 methyladenine in an immunoglobulin light chain mRNA' with C.C. Cheng, G.G. Brownlee, and J.M. Jarvis, ca 1976. Not listed in Bibliog. ca 1976
- Draft paper annotated 'For C.M[ilstein] & J.[ohn] J[arvis] Submitted Cell Aug 18 1976'.
- 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. 1986-1993
- 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 'Somatic cell genetics of antibody production', unpublished draft, ca 1977. ca 1977
- 2pp typescript draft with 1p references and 1p manuscript draft intercalated.
- D.83 'Antibody diversity at the mRNA level - a comparison between Two Mouse Immunoglobulin light-chain mRNA+S', with K.C.S.Chen, ca 1977. Not listed in Bibliog. ca 1977
- 22pp typescript draft copy, figures including photographs for plates, research data and notes.
- D.84 'Monoclonal xenogenic antibodies to murine cell surface antigens', with T. Springer et al, Bibliog. 127, 1978. 1978
- Brief correspondence, 2pp summary, 15pp typescript draft, 2pp references, 24pp tables and figures, including

**Societies and organisations, E.1-E.45**

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.

- |      |  |               |
|------|--|---------------|
| D.85 | <p>'The immunoglobulin heavy chain gene in a myeloma variant is associated with non-immunoglobulin DNA', with W. Dunnick et al, ca 1982. Not listed in Bibliog.</p> <p>Brief correspondence, typescript drafts: 6pp; 6pp with 4pp figures, 2pp references; loose figures including photographs for plates, 1982.</p> <p>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 Bibliog.</p> | ca 1982       |
| D.86 | <p>'The IF2 variant immunoglobulin gene is associated with DNA sequences from murine chromosome 15', with W. Dunnick, et al, 1983. Not listed in Bibliog.</p> <p>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.</p>   | 1983          |
| D.87 | <p>'Mutants with altered control of HLA-A, B C response to interferon', with O.R. Burrone, D. Gilmore and B. Wright, for <i>Proc. Natl. Acad. Sci.</i>, vol. 80, March 1983. Not listed in Bibliog.</p> <p>4pp copy article including abstract, with 1p references and 3pp figures. Annotated in pencil on title page 'Withdrawn 7/3/[19]83'.</p>  | 1983          |
| D.88 | <p>Updated Foreword to <i>Exquisite Specificity. The Monoclonal Antibody Revolution</i>, 1984, requested by A. Cambrosio, 1995. Not listed in Bibliog.</p>   | ca 1984, 1995 |

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

Fax letter, 1995, and 5pp copy typescript draft of the 1984 foreword and 2pp notes; 5pp typescript draft with 2pp notes, ca 1984; 2pp typescript draft, ?1995.

- D.89                      Untitled 2pp typescript with manuscript corrections annotated 'Unpublished part of discussion to Nature paper (Berek et al 1985)'                      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                      1992
- Letter from Milstein to R.J. Poljak at the Institut Pasteur re error in the paper, 21 September 1992.
- D.91                      'Antibody diversity: a source of inspiration in the Laboratory of Molecular Biology', ca. 1987. Not listed in Bibliog.                      ca 1987
- 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.
- D.92                      'Molecular characterisation of an interferon-induced membrane protein', with T.J. Evans et al, 1988. Not listed in Bibliog.                      1988
- 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'.
- D.93                      'The nature of the repertoire expressed by the members of one gene family', ca 1990. Not listed in Bibliog.                      1990

**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 'Three-dimensional structure determination of an anti-2-phenyloxazolone antibody: The role of somatic mutation and heavy/light chain pairing in the maturation of an immune response', with P.M. Alzari et al. Bibliog. 256, 1990 1989-1990
- Correspondence and Milstein's amendments to the paper prior to publication.
- D.95 'Somatic mutation requires sequences downstream C k gene', with Sharpe et al, ca 1990. Not listed in Bibliog. 1990
- 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 'Man-made antibodies', with G. Winter. Bibliog. 260, 1991. 1990-1991
- Correspondence with Winter and Nature *re* corrections, referee review and proof figures; proofs with corrections.
- D.97 'A monoclonal antibody against the paired helical filament core specifically recognizes mature neurofibrillary tangles of Alzheimer's Disease', with R. Mena et al, 1989. Not listed in Bibliog. 1988-1990
- 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 1991





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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. 1994-1995, 1998
- 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. ca 1997
- 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 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.
- D.107 '?With the benefit of hindsight'. Bibliog. 306, 2000. 2000
- Email from G. Winter to Milstein, 3 March 2000, with detailed comments and suggestions on paper of Milstein's.
- 3pp print out.

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- |             |  |              |
|-------------|--|--------------|
| D.108       | <p>'AID-GFP chimeric protein increases hypermutation of ('antibodies' crossed out) Ig genes with no evidence of nuclear localisation', Milstein et al. Bibliog. 314, 2002</p> <p>12pp typescript draft including 1p abstract, with manuscript corrections, 3pp references, and 9pp figures and tables, annotated 'Uncorrected [proof]'.</p>      | ca 2002      |
| D.109       | <p>'Centro de Biologie Molecular'</p> <p>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.</p>                              | N.d.         |
| D.110-D.118 | <p>'Collaboration'</p> <p>Contents of Milstein's original folder so inscribed: correspondence, some in Spanish, with proofs and paper drafts, relating to collaborative work on publications.</p> <p>The material was subdivided by plastic wallet by name of collaborator and this arrangement has been followed in the catalogue entries.</p>  | ca 1977-1999 |
| D.110       | <p>Agur, Z.</p> <p>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.</p>   | 1991         |
| D.111       | <p>Brownlee, G.G.</p> <p>Correspondence between Milstein and Brownlee re their joint paper 'A possible precursor of immunoglobulin light chains', Bibliog. 67, 1972; photocopy of the paper; 2pp photocopy of the paper 'Ribosome-membrane interaction in eukaryotic cells', G. Blobel and D.D. Sabatini, <i>Biomembranes</i>, vol.2 (1971).</p> | 1999         |
| D.112       | <p>Cotton, R.G.H.</p>  | ca 1977      |

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- /'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.
- D.114 Knowles, R.W. et al 1985-1990  
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.

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D.117	Meares, C.  Correspondence <i>re</i> 'affinity column project', 'plans to make anti-DOTA antibodies', patents etc; research data and earlier paper by Meares (1985).	1992
D.118	Streilein, J.W.  Correspondence <i>re</i> proposal by Milstein for 'a collaborative project' with Streilein and A. Bradbury.	1988-1989
D.119	Miscellaneous draft manuscript notes, calculations and figures, seemingly appertaining to papers in preparation	ca 2002 and n.d.
D.120	'Notes <i>Re</i> Manuscripts' file.  Contents of Milstein's folder so inscribed: 1p manuscript notes <i>re</i> ?book review, small manuscript card note 'I could live without honour but not with a dirty conscience', 'Rabi Nietslim Raséc'.	N.d.
D.121	Miscellaneous draft manuscript notes and letter drafts, seemingly appertaining to papers in preparation	N.d.
<b>D.122-D.129</b>	<b>Editorial correspondence and other material</b>  Includes a little editorial correspondence arranged alphabetically by journal or publisher, and sundry documents found with publications and drafts.	<b>1970-ca 2001</b>
D.122	Academic Press Ltd  Brief correspondence <i>re</i> corrections to Milstein's foreword to 'the Ig book' (Immunoglobulin Genes).	1989
D.123	Buenos Aires Academy of Sciences	ca 1995

**Societies and organisations, E.1-E.45**

	Letter from Milstein to A. Gonzalez <i>re</i> graph [not found], which 'illustrates...the sudden surge of Spanish Sciences in the last 10 years'.	
D.124, D.125	<i>Nature</i>	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.	1987-1988
D.125	Discussion between Milstein and R. Sitia <i>re</i> 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.	1989-1990
D.126	<i>Science</i> et al.  Discussions with N. Wade of <i>Science</i> magazine, and others, <i>re</i> 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.	1981-1989
D.127	Paper by D.S. Secher  Paper on 'W3/13, a rat T-cell antigen, is present on antibody-secreting cells', annotated by Milstein as 'unpublished'.	ca 1979
D.128	Miscellaneous comments and notes	ca 2001
D.129	'Journals'  Contents of Milstein's folder so inscribed.  Includes editorial correspondence <i>re</i> <i>Immunological Reviews</i> , <i>European Journal of Immunology</i> and <i>European</i>	1970-1997



**Societies and organisations, E.1-E.45**

See also D.138.

D.136	'HLA General'	ca 1978-1986 and n.d.
D.137	Untitled  Includes colour portrait of Milstein.	ca 1979-1987 and n.d.
D.138	Untitled  Contents of 4 loose clear plastic slide wallets found with D.135.	N.d.
D.139	Wooden hinged box with 6 loose slide frames	ca 1976-1977 and n.d.
D.140	'C. Milstein'  Red plastic slide box.	ca 1976-1981
D.141	'Croonian Etc'  Red plastic wallet.  See D.45-D.47.	N.d.
D.142-D.147	Sets of slides found in coloured plastic wallets	
D.142	'Hybrid I-III'  Blue plastic wallet.	ca 1976-1981 and n.d.
D.143	'Hybrids II'  Red plastic wallet.	ca 1976-1980 and n.d.
D.144	Untitled	N.d.

**Societies and organisations, E.1-E.45**

	Blue plastic wallet.	
D.145	'?mRNA and [?]CDMA' Dark green plastic wallet.	ca 1973-1977 and n.d.
D.146	'[?]McLeman Oxazolone[S]os - Gillian - Claudio' Green plastic wallet.	ca 1981 and n.d.
D.147	Untitled Black plastic wallet.	N.d.
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 Yellow plastic Kodak slide box.	ca 1983
D.152	'Dr. Milstein Wedn[esday] 11th. 1 to 29' Black plastic wallet.	N.d.



**Societies and organisations, E.1-E.45**

<b>SECTION E</b>	<b>SOCIETIES AND ORGANISATIONS, E.1-E.45</b>	<b>1977-2002</b>
E.1-E.5	BASEL INSTITUTE OF IMMUNOLOGY	
E.6	BIOCHEMICAL SOCIETY	
E.7	BRITISH SOCIETY FOR IMMUNOLOGY	
E.8	CANCER RESEARCH INSTITUTE	
E.9-E.18	CELLTECH LTD	
E.19	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FRANCE	
E.20	CENTRO DE ESTUDIANTES DE LA FACULTAD DE CIENCIAS EXACTAS Y NATURALES, ARGENTINA	
E.21-E.23	EUROPEAN NETWORK OF IMMUNOLOGY INSTITUTES	
E.24	FEDERATED BIOCHEMICAL RESEARCH INSTITUTE OF THE HOPITAL SAINT-LOUIS	
E.25	FUNDACION CAMPOMAR, ARGENTINA	
E.26	FUNDACION CONCHITA RABAGO DE JIMENEZ DIAZ, SPAIN	
E.27-E.35	FUNDACION JUAN MARCH, SPAIN	
E.36	FUNDACION SALES, ARGENTINA	
E.37	INSTITUTO TECNOLOGICO DE CHASCOMUS, ARGENTINA	

**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**

<b>E.6</b>	<b>BIOCHEMICAL SOCIETY</b>	<b>1985-ca 1998</b>
	Milstein's contributions to the Society's 75th Anniversary in 1986, and Honorary Membership of the Society.	
<b>E.7</b>	<b>BRITISH SOCIETY FOR IMMUNOLOGY</b>	<b>1985-1995</b>
	Correspondence and papers <i>re</i> Milstein's Honorary Membership of the Society.	
<b>E.8</b>	<b>CANCER RESEARCH INSTITUTE, USA</b>	<b>1987-1989</b>
	Correspondence <i>re</i> Milstein's membership of the Scientific Advisory Council.	
<b>E.9-E.18</b>	<b>CELLTECH LTD</b>	<b>1980-1981</b>
	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.	
<b>E.9</b>	Launch of Celltech	1980
<b>E.10</b>	Correspondence <i>re</i> membership of Celltech Science Council	1981
<b>E.11</b>	Celltech policy etc, January	1981

**Consultancies and commercial, F.1-F.23**

E.12	Chiefly <i>re</i> 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
E.19	<b>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FRANCE</b>	<b>1991-1992</b>
	Brief correspondence, some in French, <i>re</i> Milstein's appointment as Président du Comité Scientifique de l'UPR 43 'Rétrovirus et Rétrotransposons des Vertébrés'.	
E.20	<b>CENTRO DE ESTUDIANTES DE LA FACULTAD DE CIENCIAS EXACTAS Y NATURALES, ARGENTINA</b>	<b>1992</b>
	Brief correspondence.	
E.21-E.23	<b>EUROPEAN NETWORK OF IMMUNOLOGY INSTITUTES</b>	<b>1985-1992</b>

**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 OF THE HOPITAL SAINT-LOUIS, FRANCE 1993**

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

**E.25 FUNDACIÓN CAMPOMAR, ARGENTINA 1987-1992**

Brief correspondence, incoming in Spanish, outgoing in English, *re* Milstein's service on the Comision Asesora Cientifica, 1987, and on the panel for the Leloir Prize, 1992.

See also H.37-H.40.

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

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**

<b>E.27-E.35</b>	<b>FUNDACIÓN JUAN MARCH, SPAIN</b>	<b>1995-2001</b>
	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	
<b>E.36</b>	<b>FUNDACIÓN SALES, ARGENTINA</b>	<b>1993-1994</b>



**Consultancies and commercial, F.1-F.23**

	CLOSED UNTIL 2041	
E.41	Other recommendations CLOSED UNTIL 2048	1990-1997
E.42	<b>SAVE BRITISH SCIENCE SOCIETY</b>	<b>1986-1987</b>
	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	<b>THIRD WORLD ACADEMY OF SCIENCES</b>	<b>1985-2001</b>
	Recommendations.  Milstein was an Associate Founding Fellow of TWAS (see A.59).  CLOSED UNTIL 2052	
E.44	<b>WELLCOME TRUST</b>	<b>1985-1991</b>
	Papers of the Biochemistry and Cell Biology Panel.  Milstein joined the Biochemistry and Cell Biology Panel in 1985.  CLOSED UNTIL 2042	
E.45	<b>WORLD HEALTH ORGANISATION</b>	<b>1985-1992</b>
	Correspondence and papers <i>re</i> 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

Includes US Patent application no. 07/844,594 'Single Step Cloning and Selection of Hybridomas', by Milstein et al, 26 May 1992, and consultancy agreement renewal, 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.	
<b>F.9-F.12</b>	<b>IMUTRAN LTD (FORMERLY ANIMAL RESOURCES LTD)</b>	<b>1988-1997</b>
	Correspondence and papers <i>re</i> Milstein's service on the Imutran Scientific Advisory Board.	
	Includes papers for meetings, some annotated by Milstein.	
	Milstein served on the Imutran (formerly Animal Resources Ltd) Scientific Advisory Board from 1988.	
F.9	1988-1989	
F.10	1990-1991	
F.11	1992	
	Includes documents <i>re</i> administration of the Max Perutz Fund and Milstein's contribution of Imutran shares thereto.	
F.12	1993-1997	
<b>F.13-F.18</b>	<b>SERA-LAB</b>	<b>1977-1988</b>
	Correspondence and papers <i>re</i> 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 <i>re</i> supply of anti-Ig etc Also includes 'Sera Lab credits' etc.	1977-1979
<b>F.19-F.23</b>	<b>'INDUSTRIAL LIAISON (MISC)'</b>  Correspondence and papers primarily <i>re</i> the Laboratory of Molecular Biology Industrial Liaison Committee and Medical Research Council 'policy for research supported by industry or other external sources'.  Includes agendas and meeting notes etc for 1989 and 1990, MRC and Cambridge Antibody Technology collaboration 1991.  Milstein served on the Laboratory of Molecular Biology Industrial Liaison Committee from 1989.	<b>1976-1993</b>
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 <i>re</i> commercial exploitation of university research.	
F.22	Material <i>re</i> 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'  71pp typescript + figures.	N.d.

**Correspondence, H.1-H.187**

<b>SECTION G</b>	<b>VISITS AND CONFERENCES, G.1-G.94</b>	<b>1965-2001 and n.d.</b>
	<p>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.</p> <p>The material includes letters in Spanish and French.</p>	
G.1	<p>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</p> <p>Letter <i>re</i> expenses; published account of the symposium discussions on 'Biological Systems at the Molecular Level', <i>Nature</i>.</p>	1965
G.2	<p>Antibody Workshop, Weizmann Institute of Science, Rehovoth, Israel, 21-24 March 1966</p> <p>Correspondence <i>re</i> arrangements, including tentative programme and list of participants, 1965-1966.</p>	1966
G.3	<p>Study Group on Immunology, Tunbridge Wells, Kent, 1-3 March 1966</p> <p>Programme and list of participants including Milstein.</p>	1966
G.4	<p>Royal Society Discussion Meeting 'on the subject of antibody structure and function', London, 2 June 1966</p> <p>Correspondence including reference to Milstein contributing a paper on the 'Chemical structure of light chains'.</p>	1965-1966
G.5	<p>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</p>	1966

**Correspondence, H.1-H.187**

Correspondence, programme, conference application and travel arrangements.

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| G.6       | <p>Medical Research Council Colloquia, Thursdays 'in the lecture room', Laboratory of Molecular Biology, University of Cambridge, ca. 1966.</p> <p>Programme including reference to Milstein's lecture on 25 March on 'Interchain disulphide bridges in Bence-Jones proteins and gamma-globulin B-chains'.</p>   | ca 1966   |
| G.7       | <p>32nd Cold Spring Harbor Symposium on 'Antibodies', New York, USA, 1-7 June 1967.</p> <p>1p typescript abstract of paper on 'Studies on the Variability of Immunoglobulin Sequence', by Milstein et al.</p>  | 1967      |
| G.8       | <p>British Society for Immunology Summer Meeting, Cambridge, 30 June-1 July 1967</p> <p>Programme.</p> <p>Milstein et al contributed a paper on 'Chemical studies of Fc and Fs Fragments'.</p>   | 1967      |
| G.9, G.10 | <p>Meetings, July and September 1968</p> <p>This was found kept together in the same folder, the same organiser being involved in arrangements for both events.</p>  | 1967-1968 |
| G.9       | <p>5th Conference of the Federation of European Biochemical Societies (FEBS) Meeting and Symposia, Prague, Czechoslovakia, 16-20 July 1968.</p> <p>Correspondence and programme for the 3rd symposium only, with 8pp draft lecture notes, and ?collaborative 6pp ?draft paper, and 11pp draft paper, 1967-1968 and ca. 1968.</p> <p>Milstein was invited to give a lecture on (his own proposed title) 'Variability of immunoglobulin structure' at the 3rd symposium during the conference.</p> | 1967-1968 |
| G.10      | <p>Biochemical Society Colloquium on 'Structural Differences in Polymorphic Proteins', University of Aberdeen, 19</p>  | 1968      |

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	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.	1968
G.12	Primer Congreso Latinoamericano de Bioquímica Clínica, 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.	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].	1970
G.14	'Gausdal 1972'. ?Refers to 1st International Symposium on Immunology, Gausdal, Norway  7pp draft lecture notes, annotated 'Gausdal 1972'.	1972
G.15	International Union of Immunological Societies Symposium on 'Genetics of the Immune Response', Sesimbra, Portugal, 28 May-2 June 1979  Brief correspondence, 2pp typescript summary of	1978-1979



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

- G.16 Institut National de la Santé et de la Recherche Médicale (INSERM) Conference on 'Somatic Cell Genetics', Seillac, France, 23-27 September 1979. 1979
- 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. 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. 1980
- 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 Royal Society discussion meeting on 'Interferon: Twenty-five years on', London, February 1982. 1981
- Letter and 2pp abstract, 1981.
- Milstein and O. Burrone gave a paper on 'The Modulation

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of Expression of Cell Surface Antigens in Lymphoid Cells'.

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| G.19 | <p>Leukemia Research Fund International Research Symposium on 'Monoclonal Antibodies in Leukaemia and Lymphoma', Royal College of Physicians, London, 20 April 1982</p> <p>Correspondence, programme and 2pp abstract.</p> <p>Milstein and O. Burrone gave a paper on 'The Modulation of Expression of Cell Surface Antigens in Lymphoid Cells'.</p>   | 1981-1982 |
| G.20 | <p>55th Nobel Symposium on 'Genetics of the Immune Response', Stockholm, Sweden, 15-17 June 1982</p> <p>Correspondence including lists of participants, itinerary, and 2pp draft lecture notes.</p> <p>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'.</p>   | 1981-1982 |
| G.21 | <p>Biotest Folex Ltd 6th Biotest Symposium on 'Monoclonal Antibodies in Immunohaematology', Fitzwilliam College, Cambridge, 24 September 1982</p> <p>Invitation including programme (no evidence of attendance).</p>   | 1982      |
| G.22 | <p>Japanese Biochemical Society 2nd Japan-UK Joint Symposium of Biochemistry, Osaka, Japan, 10-13 October 1982</p> <p>Correspondence <i>re</i> arrangements including 1p abstract and itinerary.</p> <p>The Symposium was held jointly with the 55th Annual Meeting of the Japanese Biochemical Society. Milstein was one of the British delegates.</p> <p>Milstein and O. Burrone gave a paper on 'Monoclonal antibodies to study the effect of interferon on cell surface antigens'.</p> | 1981-1982 |



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- '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 1984
- G.27A Commemoration Dinner, Fitzwilliam College, Cambridge, 9 January 1985. 1984
- Brief correspondence and invitation.
- G.28 Porter Symposium, Wadham College, Oxford, July ?1985 1985
- Letter *re* expenses, itinerary ('Oxford Meeting and Apothecaries 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 1984-1985
- 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 1985
- Correspondence including programme and itinerary.
- This symposium marked the Opening of the nw Institute. It was conducted by the Prime Minister of Australia.
- Milstein spoke on 'Immunochemistry 1985'.
- G.31 Invitation to Prime Minister's Reception at 10 Downing Street, London, 19 November 1985 1985
- Invitation and reply.

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Milstein'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.

- G.32                      Jornada Sobre Anticuerpos Monoclonales, Buenos Aires, Argentina, 19 March 1986                      1985-1986
- 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 Histocompatibility Complex', Sant'Agnello di Sorrento, Italy, 16-18 April 1986                      1985-1986
- Correspondence including programme, list of participants, and itinerary.
- Milstein 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'.
- G.34                      3rd International Workshop and Conference on Human Leucocyte Differentiation Antigens, Oxford, 21-25 September 1986                      1985-1986
- Correspondence, papers of organising committee, proposed programme and list of participants.
- Milstein 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.
- Milstein 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.

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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.

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| G.36       | <p>1st Congreso de Inmunología del Centro de la Provincia de Buenos Aires, Olavarría, Argentina, 11-12 April 1987</p> <p>Correspondence, some in Spanish, including itinerary and programme.</p> <p>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.</p> <p>There is also a reference in the itinerary to Milstein spending the day at the Pasteur Institut, Paris, France, 8 April 1987.</p> | 1987      |
| G.37       | <p>Immunology Symposium, 7th International Meeting of the Society for Analytical Cytology, Trinity and St. John's Colleges, Cambridge, 9-15 August 1987.</p> <p>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.</p> <p>Correspondence, 8pp draft lecture notes, 1p abstract, and Final Schedule and Scientific Program booklet.</p>   | 1986-1987 |
| G.38, G.39 | <p>Visit to Argentina, December 1987</p>  | 1986-1987 |
| G.38       | <p>European School of Oncology International Meeting on 'Monoclonal Antibodies in Oncology', University of Bahia Blanca, Argentina, 17-19 December 1987</p> <p>Correspondence, some in Spanish, <i>re</i> proposed publication of the proceedings; 4pp draft lecture notes; programme.</p> <p>Milstein was asked to chair the Meeting and to give the</p>   | 1986-1987 |

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opening lecture.

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| G.39 | <p>International Scientific Reunion, 17-20 December 1987, Bahia Blanca, Argentina</p> <p>Correspondence in Spanish.</p> <p>Milstein declined to attend the Reunion ?due to a prior engagement.</p>   | 1987      |
| G.40 | <p>European Molecular Biology Organisation Workshop on 'Processes of Molecular Evolution', King's College Cambridge, 4-6 July 1988</p> <p>Brief correspondence including issues for debate, and list of invited participants.</p> <p>Milstein was invited to participate and offered to speak on 'Somatic evolution: The Darwinian nature of onset and maturation of antibodies'.</p>  | 1987-1988 |
| G.41 | <p>Discussion Meeting on Auto-Immune Disease, Marlow, Buckinghamshire, 8 October 1988</p> <p>Correspondence, programme, list of participants, and 3pp notes on proceedings.</p>  | 1988      |
| G.42 | <p>Visit to MRC Biostatistics Unit on the occasion of the Unit's five-year review, Cambridge, 7 November 1988.</p> <p>Invitation only.</p>   | 1988      |
| G.43 | <p>'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.</p> <p>Correspondence, programme, 8pp draft lecture notes and 4pp earlier draft with corrections.</p> <p>Milstein spoke on 'Somatic evolution of the memory repertoire' during the Session 'On the Lifestyle of B Cells' on 5 January.</p> | 1988-1989 |

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- 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 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 1988-1989  
  
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 1988-1989  
  
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 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 biología del reconocimiento'.
- G.48 50th Anniversary of the Centre National de la Recherche Scientifique (CNRS), Paris, France, 18-20 October 1989 1988-1989  
  
Correspondence, some in French, programme, list of foreign participants invited, and 2pp notes ?on proceedings.



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- G.49 Swiss Society of Allergology and Immunology Annual Meeting on 'Progress in monoclonal antibody technology', Lausanne, Switzerland, 26-28 April 1990 1989-1990
- 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.
- G.50 Gordon Research Conference on 'Biomolecular Recognition and Immobilization', Holderness School, Plymouth, New Hampshire, USA, 5-10 August, 1990. 1989-1990
- 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 1987-1990
- 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'.
- G.52 Fundación Juan March Workshop on 'The Reference Points in Evolution', Madrid, Spain, 20-22 September 1990 1989-1990
- 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 1990
- Correspondence and provisional programme.
- Milstein chaired the Conference.

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- G.54                      National Fund for Scientific Research, 7th Artois-Baillet Latour Health Prize Award, Brussels, Belgium, 6-8 February 1991.                      1990-1991
- 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.
- G.55                      14th Congreso Nacional de Alergia e Inmunologia, San Miguel de Tucuman, Republica Argentina, 23-27 March (provisional), 1991                      1988
- 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.
- G.56                      Fundacion Conchita Rabago de Jimenez Diaz 23rd Jimenez Diaz Memorial Lecture Symposium on 'Immunoglobins and Antibodies', Madrid, Spain, 17 May 1991                      1991
- 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 Cancerología, on monoclonal antibodies, Buenos Aires, Argentina, 7-9 August 1991                      1990-1991
- Correspondence in Spanish including invitation (declined).
- G.58, G.59                      Visit to France and Italy, September-October 1991                      1990-1991
- The itinerary at G.58 lists visits to the Comité Scientifique de l'UPR 43 ('J. Peries Lab'), Paris, 27 September; Institut

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- National de la Santé Médicale Phillippe 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 1990-1991
- 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 1991
- Draft letter declining invitation, in Spanish.
- G.61 Visit to Sweden, December 1991 1990-1991
- 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 1991
- Brief correspondence, programme (annotated by Milstein), personal diet sheet, etc, 1991.

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Milstein chaired the third Session.

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| G.63 | <p>14th Anniversary of Fundación Sales, Buenos Aires, Argentina, 6-16 March 1992</p> <p>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.</p> <p>Milstein lectured on 'Monoclonal Antibodies and Cancer'.</p>  | 1991-1992 |
| G.64 | <p>2nd International Conference on 'Human Antibodies and Hybridomas', Queen's College, Cambridge, 24-26 March 1992</p> <p>Correspondence including request for paper for publication, Milstein's 8pp notes on proceedings, and 13pp draft lecture notes 'Notes for Hybridoma meeting March 1992'.</p> <p>Milstein gave the plenary lecture.</p>  | 1991-1992 |
| G.65 | <p>Imperial College London Retirement Symposium for Professor Brian Hartley FRS of Trinity College, Cambridge, 2-4 April 1992</p> <p>Invitation letter and copy of Milstein's completed application form.</p>  | 1991      |
| G.66 | <p>9th International Conference on 'Advances in the Applications of Monoclonal Antibodies in Clinical Oncology', Halkidiki, Greece, 4-6 May 1992</p> <p>Correspondence including itinerary.</p> <p>Milstein lectured on the evening of 4 May on 'Evolution of monoclonal antibodies'.</p> <p>The conference was held immediately after a meeting of the Antisoma Science Council, 3 May 1992, which Milstein attended.</p> | 1991-1992 |
| G.67 | <p>3rd International Conference on 'Bispecific Antibodies and</p>  | 1991-1992 |

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- 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.
- G.69                      Fundación Juan March Workshop on 'The Diversity of the Immunoglobulin Superfamily', Madrid, Spain, 25-28 October 1992                      1991-1992
- 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.
- Milstein provisionally agreed to lecture on 21 December 1992. A reference on the original folder by Milstein's secretary implies his visit took place between 15 December 1992 and 4 January 1993.
- G.71                      Fundación Juan March Workshop on 'Frontiers of Alzheimer's Disease', Madrid, Spain, 19-21 March 1993                      1992-1993
- 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

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commented he would now '...have to leave Sevilla to another opportunity'.

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| G.72 | <p>5th International Workshop and Conference on 'Human Leukocyte Differentiation Antigens', Boston, USA, 3-7 November 1993</p> <p>Correspondence <i>re</i> organisation and arrangements for the conference.</p> <p>See also C.138 for further material.</p> <p>Milstein was a member of the Conference organising council.</p>  | 1990-1992 |
| G.73 | <p>150th Anniversary of the British Hospital, Buenos Aires, Argentina, 8 March 1994</p> <p>Correspondence including 'Hospital Britanico', marked 'El Reloj'; programme in Spanish; 17pp typescript and manuscript draft lecture notes with manuscript corrections.</p> <p>Milstein gave the main lecture on 'De anticuerpos "á la carte" a anticuerpos "a medida" '.</p> | 1993-1994 |
| G.74 | <p>25th Congress of the International Society of Hematology, Cancún, Mexico, 17-22 April 1994</p> <p>Correspondence, some in Spanish, and 11pp 'Lecture Notes Mexico 1994'.</p> <p>Milstein gave a lecture on 'Monoclonal Antibodies in Hematology'.</p>   | 1992-1994 |
| G.75 | <p>Wellcome Trust Antibody Engineering meeting, August 1994</p> <p>Letter <i>re</i> arrangements.</p>  | 1994      |
| G.76 | <p>5th Congreso Luso-Español de Bioquímica, Salamanca, Spain, 27-30 September 1994</p> <p>Correspondence, some in Spanish.</p> <p>Milstein was asked to give the Severo Ochoa plenary lecture at the Conference. Ochoa (1905-1993) was a</p>   | 1994      |

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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'.

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| G.77 | <p>'Ecuador Congress', ca 1994</p> <p>2pp manuscript letter marked 'FAX' <i>re</i> booking for the Congress.</p> <p>Milstein stated '...I will be in Madrid before proceeding to Salamanca.' See also G.76.</p>   | ca 1994   |
| G.78 | <p>Cambridge University Scientific Society annual Christmas dinner, Corpus Christi College, 23 November 1995</p> <p>Invitation letter and Milstein's reply.</p>   | 1995      |
| G.79 | <p>Instituto Balseiro scientific conference, Bariloche, Argentina, 1995</p> <p>Correspondence in Spanish including invitation (declined).</p>   | 1995      |
| G.80 | <p>Spring Meeting on 'Genome Evolution and Disease', Köln, Germany, 21-23 February 1996</p> <p>Correspondence including list of speakers and provisional programme.</p> <p>Milstein gave a lecture, provisionally entitled 'Somatic hypermutation and antibody affinity maturation,' and chaired one of the sessions.</p> <p>See also G.93.</p> | 1995-1996 |
| G.81 | <p>British Society of Immunology Spring Meeting Symposium on 'The molecular biology of CD1', St Michael's Hospital, Bristol, 17-19 April 1996</p> <p>Correspondence and 12pp draft lecture notes.</p> <p>Milstein gave a lecture '...about CD1'.</p>  | 1995-1996 |
| G.82 | <p>International Society of Molecular Evolution Symposium on 'Junk DNA: The Role and the Evolution of Non-Coding</p>  | 1996      |

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	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.	/...
G.83	Wolf Prize Symposium, May 1998.  Brief correspondence between D. Blow and Milstein on conference attendance.	1988
G.84	5th Jornadas Interhospitalarias del Centro del la Ciudad de Buenos Aires, Argentina, 21-23 April 1999  Invitation (declined), in Spanish.	1988
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.	1999
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.	2000
G.86	Laboratory of Molecular Biology Symposium, Cambridge, 16-20 October 2000  Programme with annotated manuscript notes on proceedings.	2000



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G.87	<p>180th Anniversary of the UBA (?University of Buenos Aires) Meeting, ca April 2001</p> <p>1p manuscript letter draft, 18 April.</p> <p>Milstein was invited to participate but had to decline.</p>	2001
G.88	<p>'Distinguished Scholar', Department of Immunology, University of Washington, Seattle, USA, ca 2001</p> <p>Invitation (declined) due to ill-health.</p>	ca 2001
G.89	<p>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.</p> <p>Letter only.</p>	2001
G.90-G.94	<p>Miscellaneous lecture and seminar notes including laboratory talks, notes on proceedings of visits and conferences</p> <p>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.</p>	1988-2001, n.d.
G.90	<p>? 'Hamden' 43pp, 'Pinder' 2pp, 'Schloss Elman', 18pp 'Titisee', and ? 'Schechter' 7pp, n.d.</p> <p>A4 notepad ('Schloss Elman') and loose sheets.</p>	N.d.
G.91	<p>'Seminars'</p>	1988-ca 1991
G.92	<p>'1993'</p>	1993-ca 1996
G.93	<p>'1996/[<del>'MEETS'</del> Lectures'</p> <p>Includes Spring Meeting on 'Genome Evolution and</p>	1996-1999

**Correspondence, H.1-H.187**

Disease', Köln, Germany, 21-23 February 1996 (see also G.80); Huxley Lecture, Birmingham, 25 April 1996; Fundación March Lecture, 9-10 March 1996; Immunological Society Thailand Seminar, 28 and 30 January 1997; Köhler Lecture, Friburg, Germany, January 1999.

G.94

'Lab Seminars 1998'

ca 1998-2001

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'

**H.1-H.152                      GENERAL CORRESPONDENCE                      1970-2002**

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-H.13                      'General File A'                      1970-2001**

**H.1-H.8                      'A'                      1977-2001**

**H.1                      Adams, J.M.                      1977-1988**

CLOSED UNTIL 2064

**H.2                      Agur, Z.                      1991-1995**

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.  Alzari was based at the Institut Pasteur, Paris, France.	1990, 1992
H.4	Aparico Alonso, P.  Visit to Milstein's laboratory.  Aparico was based at the Faculty of Medicine, University of Murcia, Spain.	1998
H.5	Askonas, B.A.  Includes correspondence <i>re</i> visits by R. Nezlin.  Askonas was based at the Molecular Immunology Group in the Oxford Institute of Molecular Medicine.	1990, 1991
H.6	Ab.-Ak.	1984-2001
H.7	Am.-Ay.  Some in Spanish.	1982-2001
H.8	A.  References.  CLOSED UNTIL 2071	1989-1995
H.9, H.10	'Richard Ambler'	1970, 1980-1983
H.9	Report on 'Visit by Dr R.P. Ambler to the U.S.A., January 1970, to see Protein and Peptide Sequenators'	1970
H.10	Career  CLOSED UNTIL 2059	1980-1983

**Correspondence, H.1-H.187**

H.11	<p>'Argentina'</p> <p>Miscellaneous correspondents from Argentina. In chronological order.</p> <p>Much in Spanish.</p>	1988-2001
H.11	1988-1991	
H.12	<p>1994-1999</p> <p>Includes 5pp typescript 'Reflexiones de un inmunologo sobre una leccion que nunca se aprende' by Milstein, sent to A.L. Gak.</p>	
H.13	2000-2001	
<b>H.14-H.24</b>	<b>'B General'</b>	<b>1973-2001</b>
H.14	<p>Baltimore, D.</p> <p>Controversy over data used in article published in <i>Cell</i>.</p>	1988
H.15	<p>Baralle, F.E.</p> <p>Baralle wrote from research centres in Milan and later Trieste, Italy.</p>	1988-1999
H.16	<p>Barnes, G.L, Bishop R., and Coulson, B.</p> <p><i>Re</i> development of rotavirus monoclonal antibodies.</p> <p>Barnes, Bishop and Coulson wrote from the Royal Children's Hospital, Melbourne, Australia.</p>	1985-1986
H.17	<p>Barrantes, F.J.</p> <p>Mostly in Spanish.</p>	1988-2001

**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 <i>Interscientia</i> .	
	Includes paper and biography of Milstein (in English), with Spanish versions.	
H.19	Bothwell, A.L.M.	1988, 1990
	Bothwell wrote from the Yale University School of Medicine.	
H.20	Brutkiewicz, R.R.	1995-1996
	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	
<b>H.25-H.36</b>	<b>'C'</b>	<b>1975-2000</b>
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 Cambrosio, with Milstein's comments thereon.

Includes discussion of the award of the 1984 Nobel prize to Milstein and Köhler.

H.26

1994-1995

*Re* Milstein's Foreword to Cambrosio's book *Exquisite Specificity. The Monoclonal Antibody Revolution*. Includes copy of Foreword, 3pp typescript.

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 Biología.

Mostly in Spanish.

Cérda Olmedo was based at the Department of Genetics, University of Seville, Spain.

H.29

Cereijido, M.

1992, 1994

Mostly in Spanish.

Cereijido was based at the Centro de Investigacion y de Estudios Avanzados, Mexico.

H.30

Clafin, L.

1991-1995

Chiefly *re* proposed collaboration 1994-1995.

**Correspondence, H.1-H.187**

	Clafin was based at the University of Michigan Medical School, USA.	
H.31	Cohn, M.  Correspondence <i>re</i> credit for work on lamda chains 1991; antibody workshops 1999.  Cohn was based at the Salk Institute for Biological Studies, San Diego, USA.	1991, 1999
H.32	Collins, W.P.  Possible research collaboration.  Collins (and colleagues) wrote from King's College School of Medicine and Dentistry, London.	1984-1985
H.33	Ca.	1992-1999
H.34	Ce.-Cl.	1988-1998
H.35	Co.	1975-2000
H.36	Cr.-Cu.	1979-1997
<b>H.37-H.40</b>	<b>'Campomar'</b>  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.	<b>1991-2001</b>



**Correspondence, H.1-H.187**

H.37 H.37A	1991-1996 1996 CLOSED UNTIL 2072	
H.38	1997  Chiefly <i>re</i> 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	
<b>H.41, H.42</b>	<b>'Chile'</b>  Miscellaneous correspondents from Chile. In chronological order.  Much in Spanish.	<b>1995-1998</b>
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.	
<b>H.43-H.50</b>	<b>'Cuello'</b>  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	<b>1979-2000</b>

### Correspondence, H.1-H.187

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.

H.48

1986-1991

Includes correspondence 1989 re proposed McGill-Cambridge research unit.

**Correspondence, H.1-H.187**

H.49	1992-1993  Chiefly <i>re</i> visit by Cuello to Cambridge 1993.	
H.50	1995-2000  CLOSED UNTIL 2061	
<b>H.51, H.52</b>	<b>'General correspondence D'</b>	<b>1980-2001</b>
H.51	Da.-Dw.	1980-2001
H.52	D.  References.  CLOSED UNTIL 2077	
<b>H.53</b>	<b>'E General'</b>	<b>1973-2002</b>
<b>H.54-H.60</b>	<b>'F General'</b>	<b>1979-2001</b>
H.54	Feizi, T.  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.	1989-1991, 2001
H.55	Fersht, A.R.  Recommendations.  CLOSED UNTIL 2061	1991-2000
H.56	Foote, J.  Chiefly <i>re</i> support of research.  Foote was based at the Fred Hutchinson Cancer Research Center, Seattle, USA.	1997-2002

**Correspondence, H.1-H.187**

H.57	Frasch, A.C.C.  Recommendations. CLOSED UNTIL 2062	1993-2001
H.58	Froud, S.J.  <i>Re</i> derivation of cell line of NS0 myeloma.  Froud worked for Celltech Ltd.	1993
H.59	Fa.-Fu.	1979-2000
H.60	F.  References.  CLOSED UNTIL, 2076	1979, 1988, 2000
<b>H.61-H.71</b>	<b>'G General'</b>	<b>1980-2002</b>
H.61-H.68	'G'	1980-2002
H.61	García-Bellido, A.  Career.  CLOSED UNTIL 2056	1989, 1995
H.62	Garrido, F.  Garrido was based at the Hospital 'Virgen de las Nuevas', Granada, Spain.	1986-1988
H.63	Gherardi, E.  <i>Re</i> career.  CLOSED UNTIL 2076	2000
H.64	Goni, F.  Milstein's possible attendance at the Fifth Congress of the Asociacion Latinomaericana de Immunologia.  Goni was Secretary General of the Asociacion	1998-1999

**Correspondence, H.1-H.187**

Latinoamericana de Immunologia.

H.65	Ga.-Ge.	1982-2000
H.66	Gi.-Go.	1982-2002
H.67	Gr.-Gu.	1980-1999
H.68	G. References. CLOSED UNTIL 2077	1997, 1999, 2001
H.69	'Gallo. New file'  Chiefly correspondence and papers <i>re</i> controversy between R.C. Gallo and A. Karpas on HTLV (human T cell leukaemia viruses) and AIDS.	1986, 1998
H.70	'Green'  Correspondence with N.S. Green and M.D. Scharff <i>re</i> potential joint research.  Green and Scharff were based at the Albert Einstein College of Medicine, New York, USA.	1997
H.71	'J.B. Gurdon'  International awards.  Gurdon was John Humphrey Plummer Professor of Cell Biology at Cambridge.	1983-2002
<b>H.72-H.80</b>	<b>'H General'</b>	<b>1978-2001</b>
H.72-H.76	'H'	1978-2001

**Correspondence, H.1-H.187**

H.72	Helm, B.A.  Interchain disulphide bonds in human IgE.  /...  /... Helm was based at King's College London.	1986-1989    /...
H.73	Ha.	1979-2000
H.74	He.-Hi.	1992-1998
H.75	Ho.-Hu.	1979-2001
H.76	H.  References.  CLOSED UNTIL 2075	1978, 1999
H.77	'Nick Hales'  Honours and awards.  C.N. Hales was Professor of Clinical Biochemistry at Cambridge from 1977. CLOSED UNTIL 2047	1984-1986
H.78-H.80	'Jonathan Howard'  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.	1980-1995
H.78	Miscellaneous papers  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.	1980, n.d.
H.79	Career and honours  CLOSED UNTIL 2069	1982-1993
H.80	Career and honours	1993-1995



**Correspondence, H.1-H.187**

	<p>Kornblihtt was based at the Instituto de Investigaciones en Ingeniera Genetica y Biologia Molecular, Buenos Aires, Argentina.</p>	
H.87	Ka.-Ki.	1981-2001
H.88	Kl.-Ko.	1980-1998
H.89	Kr.-Ku.	1979-2000
H.90	<p>'Elvin Kabat'</p> <p>Includes correspondence <i>re</i> research on alpha(1-6) dextran.</p> <p>Kabat was based at the Department of Microbiology, Columbia University, New York, USA</p>	1985-1989
H.91	<p>Kacelnik, A.</p> <p>Correspondence <i>re</i> evolution.</p> <p>For most of the period covered by the correspondence Kacelnik was based at the Department of Zoology, Oxford.</p>	1990-1995
H.92-H.94	<p>'Karpas'</p> <p>Career and achievements.</p> <p>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.</p>	1975-1999
H.92	<p>1975-1983</p> <p>CLOSED UNTIL 2075</p>	
H.93	<p>1986-1991</p> <p>CLOSED UNTIL 2075</p>	



**Correspondence, H.1-H.187**

H.94	1992-1999  CLOSED UNTIL 2075	
H.95	K  References.  CLOSED UNTIL 2076	1984, 1999, 2000
<b>H.96-H.98</b>	<b>'L General'</b>	<b>1977-2000</b>
H.96	La.	1979-1999
H.97	Le.-Lo.	1984-2000
H.98	L.  References.  CLOSED UNTIL 2074	1977, 1986, 1987, 1998
<b>H.99-H.108</b>	<b>'M General'</b>	<b>1976-2001</b>
H.99-H.106	'M'	1976-2001
H.99	Mäkelä, O.  Work on anti-idiotypic reagents.  Mäkelä was based at the Department of Bacteriology and Immunology, University of Helsinki, Finland.	1982-1983
H.100	Margni, R.A.  Correspondence in Spanish.  Margni was based at the University of Buenos Aires, Argentina.	1979-1980, 1997
H.101	re Mathews, M.B.	1995-1996

**Correspondence, H.1-H.187**

	Career.	
	CLOSED UNTIL 2072	
H.102	Mordoh, J.  Chiefly <i>re</i> work on monoclonal antibodies.  Mordoh was based at the Fundacion Campomar, Argentina.	1990-1999
H.103	Ma.	1976-2000
H.104	Me.	1987-2001
H.105	Mi.-Mu.	1979-1999
H.106	M.  References.  CLOSED UNTIL 2076	1997, 2000
H.107, H.108	'Mc Michael'  A.J. McMichael was based at the Royal Free Hospital, London.	1978-1980, 1993
H.107	1978  Correspondence and research data <i>re</i> work on leukaemia cells.  Includes correspondence with G. Janossy and others.	
H.108	1979-1980, 1993	
<b>H.109, H.110</b>	<b>'General N'</b>	<b>1983-2001</b>
H.109	Na.-Ny.	1983-2001

**Correspondence, H.1-H.187**

H.110	N.  References.  CLOSED UNTIL 2077	1997, 2001
<b>H.111</b>	<b>'General O'</b>	<b>1985-2000</b>
<b>H.112-H.114</b>	<b>'General P'</b>	<b>1978-2000</b>
H.112, H.113	'P'	1978-2000
H.112	Pa.-Pe.	1978-2000
H.113	Pf.-Pr.	1986-1999
H.114	'Roberto Poljak'  Poljak was Professor at the Institut Pasteur, Paris, and Director of Research, CNRS, for most of this period.  CLOSED UNTIL 2058	1986-1997
<b>H.115-H.121</b>	<b>'R General'</b>	<b>1975-2001</b>
H.115-H.120	'R'	1975-2001
H.115	Rabbits, P.H.  Career.  CLOSED UNTIL 2077	1995-1996
H.116	Rajewsky, K.  Progress of research and scientific collaboration.  Rajewsky was based at the Institute of Genetics,	1977-2001

**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	
<b>H.122-H.134</b>	<b>'General S'</b>	<b>1976-2002</b>
H.122-H.132	'S'	1976-2002
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.	
H.127	Stoppani, A.O.M.	1979-2000
	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.128	Sa.-Sc.	1976-1998
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	1980-2000
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.	1985-1986
H.134	Springer, T.A.  Chiefly <i>re</i> career.  Springer was based at the Harvard Medical School, latterly its Center for Blood Research.  CLOSED UNTIL 2070	1982-1994
<b>H.135-H.139</b>	<b>'T General'</b>	<b>1977-2000</b>
H.135-H.138	'T'	1977-2000
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.	1977-1986
H.136	Ta.-Te.	1983-2000
H.137	Th.-Ty.	1980-1999

**Correspondence, H.1-H.187**

H.138	T.  References. CLOSED UNTIL 2077	1990-1992, 2001
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.	1979-1999
<b>H.140-H.144</b>	<b>'U-V General'</b>	<b>1979-2001</b>
H.140	'U'	1979, 1987
H.141-H.144	'V'	1981-2001
H.141	Vane, J.  Career.	1985, 1986, 1997
H.142	Vindrola, O.  Milstein's comments on draft paper.  Vindrola was based at the Instituto de Investagaciones Medicas, Buenos Aires, Argentina.	1988
H.143	Va.-Ve.	1981-2001
H.144	Vi.-Vo.	1986-2001
<b>H.145-H.149</b>	<b>'General W'</b>	<b>1985-2000</b>
H.145-H.147	'W'	1985-2000

**Correspondence, H.1-H.187**

H.145	Wilkinson, M.  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.	1992-1999
H.146	Wa.-Wo.	1985-2000
H.147	W.  References.  CLOSED UNTIL 2075	1986-1999
H.148	'H. Waldmann (pruned)'	1992, 1994
H.149	'Alan Williams (deceased) (pruned heavily)'  Williams was based at the MRC's Cellular Immunology Unit, Oxford.	1986-1992
<b>H.150-H.152</b>	<b>'General X-Z'</b>	<b>1975-2001</b>
H.150	Zinkernagel, R.M.  Zinkernagel was based at the Department of Pathology, Institut für Experimentelle Immunologie, University of Zürich, Switzerland.	1992-1993
H.151	Y., Z.	1992-2001
H.152	Y., Z.	1975, 2000



**Correspondence, H.1-H.187**

References

<b>H.153-H.169</b>	<b>CLOSED UNTIL 2076 MISCELLANEOUS CORRESPONDENCE</b>	<b>1959-2001</b>
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) <i>re</i> progress of Milstein's work with F. Sanger.	
H.154	Reports 1959-1960  Milstein's typescript Annual Reports on work for 1958-59 and 1959-60; printed Cambridge Department of Biochemistry Report 1959-1960.	
H.155	1961  Includes copy of letter to the British Council reporting on his work at Cambridge on the enzyme phosphoglucomutase; correspondence <i>re</i> 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.	
H.158-H.162	'CMF (Arg) [...]'	1986-2001
	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	
H.163, H.164	Bundle of correspondence <i>re</i> monoclonal antibody W6/32	1989-1991
	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'.	
	The paper cited was the 1978 paper by Barnstable, Bodmer, Williams, Milstein et al, 'Production of monoclonal antibodies to group A erythrocytes, HLA and other human cell surface antigens - new tools for genetic analysis', <i>Cell</i> vol 14 (1978).	

**Correspondence, H.1-H.187**

H.165-H.169	Correspondence found loose  No extended exchanges. May include invitations, congratulations and expressions of admiration, personal news.  Arranged chronologically.  Some in Spanish.	1970-1998
H.165	1970-1984	
H.165A	1982-1984 CLOSED UNTIL 20600	
H.166	1985-1987	
H.167	1988-1990	
H.168	1991-1994, 1996-1998	
H.169	1995  CLOSED UNTIL 2071	
<b>H.170-H.184</b>	<b>REFERENCES AND RECOMMENDATIONS</b>  Contents of Milstein's folders.	<b>1984-2002</b>
H.170-H.173	'Referee reports - Grants etc'  Contents of folder so inscribed.	1987-?1997
H.170	1987-1989  CLOSED UNTIL 2065	
H.171	1990-1991	

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	CLOSED UNTIL 2067	
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	Contents of folder so inscribed: correspondence <i>re</i> 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.	
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