

CURRICULUM VITAE : SIR HANS KORNBERG

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**Name** Hans Leo KORNBERG

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**Date and place of birth** 14 January 1928; Herford, (Germany)

**Nationality** British / USA [dual nationality]

**Marital status** m. Monica Mary King, 1956 (*Deceased, 16 June 1989*); two daughters, twin sons;  
 m. Donna Haber, 28 July 1991.

**Education**

|           |                                                  |
|-----------|--------------------------------------------------|
| 1939-1941 | Stoatley Rough School, Haslemere, Surrey         |
| 1941-1943 | Willingdon College, Ven House, Port, Somerset    |
| 1943-1945 | Queen Elizabeth Grammar School, Wakefield, Yorks |
| 1946-1953 | University of Sheffield                          |

**Degrees**

(a) *Earned*

|      |                                     |
|------|-------------------------------------|
| 1949 | B.Sc. [Hons. Chemistry] (Sheffield) |
| 1953 | Ph.D. [Biochemistry] (Sheffield)    |
| 1958 | M.A. by decree (Oxford; BNC)        |
| 1961 | D.Sc. (Oxford; BNC)                 |
| 1975 | Sc.D. (Cambridge; Christ's)         |

(b) *Honorary*

|      |                                                       |
|------|-------------------------------------------------------|
| 1974 | Sc.D., University of Cincinnati (USA)                 |
| 1975 | D.Sc., University of Warwick (England)                |
| 1979 | D.Sc., University of Leicester (England)              |
|      | D.Sc., University of Sheffield (England)              |
|      | D.U., University of Essex (England)                   |
| 1980 | D.Sc., University of Bath (England)                   |
| 1984 | D.Sc., University of Strathclyde (Scotland)           |
|      | M.D., University of Leipzig (Germany)                 |
| 1994 | D.Sc., University of the South Bank, London (England) |
| 1995 | D.Sc., University of Leeds (England)                  |
| 1997 | D.Sc., La Trobe University (Australia)                |
| 1999 | LL.D., University of Dundee (Scotland)                |

|                   |                                            |                                                                                                                                                                                                          |
|-------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Posts held</b> | 1951-1953                                  | John Stokes Research Fellow, University of Sheffield                                                                                                                                                     |
|                   | 1953-1954                                  | Commonwealth Fund Fellow, Yale University                                                                                                                                                                |
|                   | 1954                                       | Commonwealth Fund Fellow, University of California (Berkeley)                                                                                                                                            |
|                   | 1954-1955                                  | Commonwealth Fund Fellow, Public Health Research Institute of the City of New York Inc.                                                                                                                  |
|                   | 1956-1960                                  | Member of Scientific Staff, Medical Research Council Cell Metabolism Research Unit, University of Oxford                                                                                                 |
|                   | 1958-1961                                  | Lecturer in Biochemistry, Worcester College, Oxford                                                                                                                                                      |
|                   | 1958                                       | Research Associate, Harvard Medical School, Boston (USA)                                                                                                                                                 |
|                   | 1960-1975                                  | Professor of Biochemistry, University of Leicester                                                                                                                                                       |
|                   | 1975-1995                                  | Sir William Dunn Professor of Biochemistry, University of Cambridge;<br>Fellow of Christ's College, Cambridge                                                                                            |
|                   | 1982-1995                                  | (34th) Master of Christ's College, Cambridge                                                                                                                                                             |
|                   | 1989-1995                                  | Deputy Vice-Chancellor, University of Cambridge                                                                                                                                                          |
|                   | 1995-1996; 2001-2002; 2002-2004; 2004-2011 | Professor of Biology and University Professor, Boston University<br>Acting Director, University Professors Program<br>Director, University Professors Program<br>Director, University Professors Program |

**Service on non-University bodies**

*(1) Completed*

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| 1964-1967 | Biology Committee, Science Research Council                             |
| 1965-1969 | Committee of The Biochemical Society                                    |
| 1967-1976 | Biological Sciences Sub-Committee, University Grants Committee          |
| 1967-1972 | Member, Science Research Council                                        |
| 1969-1972 | (First) Chairman, Science Board, Science Research Council               |
| 1970-1976 | UK Delegate, NATO Advanced Studies Institute Panel; Chairman 1974-1975. |
| 1971-1973 | Vice-President, Institute of Biology                                    |
| 1971-1976 | Chairman, Hooke Committee of the Royal Society                          |
| 1973-1993 | Managing Trustee, The Nuffield Foundation                               |
| 1975-1977 | Member of Council, The Royal Society                                    |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1976-1980               | Chairman, Scientific Research in Schools Committee of the Royal Society                                                       |
| 1976-1981               | Chairman, Royal Commission on Environmental Pollution                                                                         |
| 1977-1981               | Member of Council of European Molecular Biology Organisation (EMBO);<br>Vice-Chairman 1978-1981                               |
| 1977-1982               | Member, Medical Advisory Committee of The British Council                                                                     |
| 1977-1985               | Board Member, Institute for European Environmental Policy (ECF)                                                               |
| 1977-1990               | Member of Kuratorium, Max-Planck-Institut für Ernährungsphysiologie, Dortmund (FRG);<br>Chairman of Scientific Advisory Board |
| 1980-1984               | Member, Agricultural & Food Research Council;<br>Chairman's Advisory Group                                                    |
| 1980-1990               | Member of Scientific Council, B.P. Venture Research Unit                                                                      |
| 1980-1990               | Scientific Governor , Weizmann Institute of Science, Rehovot, Israel                                                          |
| 1981-1983               | Member of Council, Epsom College                                                                                              |
| 1982-1985               | Member, Advisory Council for Applied Research and Development (ACARD)                                                         |
| 1982-1987               | Chairman, British National Committee for Problems of the Environment, ICSU                                                    |
| 1982-1990               | Member, British National Committee for ICSU                                                                                   |
| 1982-1990               | Member, British National Committee for Biochemistry, ICSU                                                                     |
| 1983-1987;<br>1988-1992 | Corporate Trustee, Marine Biological Laboratory, Woods Hole, MA 02543 (USA)                                                   |
| 1983-1989               | Chairman, Senetek plc                                                                                                         |
| 1982-1990               | Member, Advent Eurofund Technical Advisory Committee                                                                          |
| 1984-1990               | Member, UK Executive Committee, Hubert H Humphrey Institute of Public Affairs, University of Minnesota (USA)                  |
| 1984-1990               | Member, Priorities Board for Research and Development, Ministry of Agriculture, Fisheries and Food                            |
| 1984-1985               | President of the British Association for the Advancement of Science                                                           |
| 1985-1987               | Director, Damon Biotech Ltd and Damon Biotech Europe Ltd                                                                      |
| 1986-1987               | Member, UK Committee for the European Year of the Environment                                                                 |

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|------------|--------------------------------------------------------------------------------------------|
| 1986-1988  | Chairman, Research Councils' Joint Policy Working Group on Agriculture and the Environment |
| 1988-1991  | President-Elect, International Union of Biochemistry                                       |
| 1990-1992  | Chairman, Environmental Research Committee, The Royal Society                              |
| 1990-2008  | Board Member, Policy Center for Marine Biotechnology, Woods Hole                           |
| 1991-1992  | President of the Association for Science Education                                         |
| 1988-1994  | Member, UK Advisory Committee for Harkness Fellowships                                     |
| 1991- 1994 | President, International Union of Biochemistry & Molecular Biology                         |
| 1986-1995  | Member, Science Scholarships Committee, Royal Commission for the Exhibition of 1851        |
| 1986-1995  | Chairman, Advisory Committee on Genetic Modification; Health and Safety Commission         |
| 1986-1995  | Director, UK Nirex Ltd (representing the Secretary of State for Trade & Industry)          |
| 1990-1994  | Member, International Relations Committee, The Royal Society                               |
| 1990-1995  | Trustee, The Wellcome Trust (Governor, The Wellcome Trust Ltd., from 1992)                 |
| 1990-1995  | Governor of The Lister Institute of Medicine                                               |
| 1990-1995  | (First) President of The Biochemical Society                                               |
| 1991-1995  | Trustee, The Rutherford Trust                                                              |
| 1992-1995  | Director, Educational Broadcasting Services Trust Ltd.                                     |
| 1973-97    | Academic Governor, Hebrew University of Jerusalem, Israel                                  |

*(b) Ongoing*

|        |                                                  |
|--------|--------------------------------------------------|
| 1982 - | Member, Krebs Memorial Scholarsips Committee     |
| 1998 - | Councillor, Imperial Society of Knights Bachelor |

**Distinctions***(a) Medals*

|      |                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------|
| 1963 | Colworth Medal of the Biochemical Society                                                                            |
| 1973 | Otto Warburg Medal, Gesellschaft für Biologische Chemie der Bundesrepublik Deutschland (Federal Republic of Germany) |

*(b) Fellowships*

|      |                                     |
|------|-------------------------------------|
| 1965 | Fellow of the Institute of Biology; |
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|---------------------------------|------|--------------------------------------------------------------------------------------------------------|
| <i>and Honorary Memberships</i> |      | Fellow of the Royal Society                                                                            |
|                                 | 1972 | Honorary Member, American Society of Biological Chemists                                               |
|                                 |      | Fellow of the Royal Society of Arts                                                                    |
|                                 | 1980 | Honorary Fellow, Worcester College, Oxford                                                             |
|                                 | 1981 | Honorary Member, Japanese Biochemical Society                                                          |
|                                 | 1982 | Member, <i>Deutsche Akademie der Naturforscher Leopoldina</i>                                          |
|                                 |      | Honorary Fellow, Brasenose College, Oxford                                                             |
|                                 | 1986 | Foreign Associate, National Academy of Sciences of the United States of America                        |
|                                 |      | Honorary Fellow, British Association for the Advancement of Science                                    |
|                                 | 1987 | Foreign Honorary Member, American Academy of Arts and Sciences                                         |
|                                 | 1989 | Honorary Fellow, Royal College of Physicians of London                                                 |
|                                 | 1989 | Member, <i>Academia Europaea</i>                                                                       |
|                                 | 1990 | Honorary Fellow, Wolfson College, Cambridge                                                            |
|                                 | 1992 | Fellow, American Academy of Microbiology                                                               |
|                                 | 1993 | Foreign Member, American Philosophical Society                                                         |
|                                 | 1995 | Honorary Member, Phi Beta Kappa                                                                        |
|                                 |      | Honorary Fellow, Institute of Biology                                                                  |
|                                 | 1997 | Foreign Member, <i>Accademia Nazionale dei Lincei</i>                                                  |
|                                 |      | Honorary Governor, Hebrew University of Jerusalem                                                      |
|                                 | 2000 | Lifetime Achievement Award, International Union of Biochemistry and Molecular Biology; Honorary Member |
| <i>(c) Civil Honours</i>        | 1978 | Appointed Knight Bachelor                                                                              |
| <i>(d) Named Lectures etc</i>   | 1968 | CIBA Lecturer, Institute of Microbiology, Rutgers, N.J.                                                |
|                                 | 1971 | Life Sciences Lecturer, University of California at Davis (USA)                                        |
|                                 | 1972 | Leeuwenhoek Lecturer of The Royal Society                                                              |
|                                 | 1975 | Springer Lecturer of Federation of European Biochemical Societies                                      |

- 1975 Weizmann Memorial Lecturer, Weizmann Institute, Rehovot, Israel
- 1976 (Sixth) Griffith Memorial Lecturer, Society for General Microbiology
- 1977 (Third) Barton-Wright Memorial Lecturer, Institute of Biology
- (Third) Leverhulme Memorial Lecturer, University of Liverpool
- 1979 David Henderson Memorial Lecturer, Microbiological Research Establishment, Porton Down
- 1981 Sir Henry Tizard Memorial Lecturer, Westminster
- Eric Redfearn Memorial Lecturer, University of Leicester
- 1982 Landsdowne Lecturer, University of Victoria (Canada)
- Heritage Visiting Professor, University of Alberta, (Canada)
- 1990 Chilton Lecturer, University of Texas, Southwestern Medical Center, Dallas (USA)
- 1992 Rutherford Lecturer, Harrow School
- Biochemical Society Lecturer, University of Edinburgh
- 1993 Claydon Lecturer, Claydon
- 1994 Biochemical Society Lecturer, University of Leeds
- 1995 Presidential Address, International Congress of Biochemistry & Molecular Biology, New Delhi (India)
- 1997 Vice-Chancellor's Lecture, La Trobe University, Bandoora, Victoria (Australia)

**Chief research interests**

Nature and regulation of the processes that effect the entry into micro-organisms of carbohydrates, and their subsequent utilization for the provision of energy and of cell components.

**Publications**

*Energy Transformations in Living Matter* ,  
(with H. A.Krebs); Springer Verlag (1957);  
251 articles and scientific papers,

**Recreations**

When time permits - walking, reading, talking, listening to music, playing the cello (badly); cooking .