



MAX PLANCK INSTITUTE
OF BIOCHEMISTRY



Curriculum Vitae

Professional education and positions

1960	Diploma in Chemistry, Technische Universität München
1963	Dr. rer. nat., Technische Universität München
1968	Habilitation, Technische Universität München
1972-2005	Scientific Member of the Max-Planck-Gesellschaft and Director at the Max-Planck-Institut für Biochemie
2005	Director Emeritus
1976	Apl. Professor, Technische Universität München
2001	Visiting Professor Universitat Autònoma de Barcelona
2005	Gastprofessor Universität Duisburg-Essen
2007	Visiting Professor Cardiff University
2013	Emeritus of Excellence, Technische Universität München

Editor: Journal of Molecular Biology.

Societies

Member of the Deutsche Chemische Gesellschaft;
Member of the Gesellschaft für Biologische Chemie;
Honorary Member of the American Society of Biological Chemists;
Honorary Member of the Swedish Society for Biophysics;
Member of EMBO;
Honorary Member of the Japanese Biochemical Society;
Member of the Bayerische Akademie der Wissenschaften;
Member of the Deutsche Akademie der Naturforscher, Leopoldina;
Member of the European Academy of Arts, Sciences and Humanities;
Corresponding Member of the Croatian Academy of Sciences and Arts;
Member of the Accademia Nazionale dei Lincei, Rome;
Member of the Orden Pour le Mérite für Wissenschaften und Künste;
Associate Fellow, Third World Academy of Sciences, Trieste;
Foreign Associate, National Academy of Sciences, USA;
Fellow, American Academy of Microbiology;

Foreign Member of the Royal Society, London;
 Honorary Member of the Sociedad Espanola de Bioquimica y Biologia Molecular;
 Foreign Member of the Korean Academy of Science and Technology, Korea;
 Foreign Fellow of the Indian National Science Academy, New Delhi;
 President of the foundation board of the "Peter und Traudl Engelhorn Stiftung";
 Honorary Member of the Real Academia Sevillana de Ciencias, Spain

Honors

1972	E.K.-Frey Medal, Gesellschaft für Chirurgie
1977	Otto-Warburg Medal, Gesellschaft für Biologische Chemie
1982	Emil von Behring Medal, Universität Marburg
1987	Keilin Medal, Biochemical Society, London
1987	Richard-Kuhn Medal, Gesellschaft Deutscher Chemiker
1987	Dr. h.c. Université Catholique de Louvain,
1988	Nobel Prize in Chemistry
1989	E.K.Frey - E. Werle Gedächtnismedaille
1989	Dr .h.c. University of Ljubljana, Slovenia
1990	Kone Award, Association of Clinical Biochemists, United Kingdom
1991	Dr. h.c. for Medicine and Surgery, Università Tor Vergata, Rome, Italy
1991	Rudi Lemberg Travelling Fellowship
1992	Sir Hans Krebs Medal, Federation of European Biochemical Societies
1993	Bayerischer Maximiliansorden für Wissenschaft und Kunst
1993/94	The Linus Pauling Medal
1995	Miami Winter Symposia, The Distinguished Service Award
1997	Max Tishler Prize, Harvard University, USA
1997	Max-Bergmann-Medaille des Max-Bergmann-Kreises zur Förderung der peptidchemischen Forschung
1997	Das Grosse Verdienstkreuz mit Stern und Schulterband der Bundesrepublik Deutschland
2000	Dr. h.c. Universidade Nova de Lisboa
2000	Dr. h.c. Universitat Autònoma de Barcelona
2002	Honorary Professor, Ocean University, Qingdao
2003	Dr. h.c. Tsinghua University, Peking
2003	Honorary Professor, Peking University, Peking
2003	Honorary Professor, Sichuan University, Chengdu
2004	Honorary Professor, Shanghai Second Medical University, Shanghai
2004	Röntgenplakette der Stadt Remscheid-Lennep
2004	Premio Città di Firenze sulle Scienze Molecolari, Florenz
2005	Honorary Professor, Shanghai Jiao Tong University, China

2005	'Lotte Distinguished Professorship', Seoul National University, Korea
2006	Profesor Honorario de la Universidad de Sevilla
2008	Dr. h.c. Nagoya University, Japan
2009	Distinguished Research Chair Professor, National Taiwan University, Taipei, Taiwan
2009	Erice Prize- Premio Ettore Majorana
2009	Honorary Professor, Huaqiao University, Xiamen, China
2009	Honorary Director of the Nobel Life Science Research Center, Foshan, China
2010	Dr. h.c. Universidad de Buenos Aires, Republica Argentina
2011	National Medal of the Order 'Manuel Amador Guerrero' of the Republic of Panama
2011	Dr. h.c. Universitas Vilnensis, Vilnius, Lithuania
2012	Honorary Professor, Tianjin University of Science and Technology, Tianjin, China
2012	Honorary President and Chief Scientific Advisor, Tianjin International Joint Academy of Biotechnology & Medicine, Tianjin, China
2012	Honorary Professor, Nanjing University of Technology, Nanjing, China
2012	Dr. h. c. Bulgarian Academy of Sciences, Sofia, Bulgaria
2014	Dr. h. c. Jagiellonian University, Krakow, Poland
2014	Honorary Professor, Nanjing University, Nanjing, China
2014	Xu Guangqi Medal, SIBS, Shanghai, China
2014	Honorary Professor of European University Cyprus
2016	Honorary Distinguished Professor, Cardiff University, UK
2016	Panama Science Award, Panama

Professional interests

Structure and function of biological macromolecules, in particular those of large complex aggregates.

Systems studied:

Proteases and their natural and synthetic inhibitors;

metalloenzymes (iron, nickel, molybdenum, copper);

proteins of the immune system (antibodies and antibody receptors);

protein hormones and their receptors; protein kinases;

proteins of amino acid biosynthesis (PLP containing enzymes);

proteins of cofactor and vitamin biosynthesis; proteins of energy and electron transport.

Methods development:

Patterson methods in crystallography;

methods of structure determination of proteins and protein ligand complexes by NMR;

synthesis and use of electron rich metal clusters;

crystal annealing and improvement, methods and instruments;

analysis and evaluation of targets for research and application in pharmacology and crop science.

Co-founder and advisor of two Biotech Companies, Proteros (since 1997) and SuppreMol (since 2005).

Scientific advisor of International Pharma and Crop Science Companies.

The list of publications can be found in the Web : <http://www.biochem.mpg.de/xray/>

Abbreviated Version

Robert Huber was born in 1937 in Munich. He studied chemistry at the Technische Universität München (TUM), where he also completed his Ph.D. and habilitation. Since 1972, he has been a member of the Max-Planck-Gesellschaft and Director at the Max-Planck-Institut für Biochemie until his retirement in 2005. Since 1976, he also serves at the TUM as a Professor. He holds appointments as Guest Professor at the Universität Duisburg-Essen (Germany), the Cardiff University (Great Britain), the Universidad Autonoma de Barcelona (Spain), and the Seoul National University (Korea). He serves as a member of the Board and/or Scientific Advisory Board of a number of pharmaceutical and crop science companies, and he is co-founder of two companies, Proteros and Suppremol, located in Martinsried and offering services for drug discovery and development and for the development of novel therapies for autoimmune diseases, respectively. Huber has made major contributions to the understanding of the structure and function of biological macromolecules. He has studied proteases and their natural and synthetic inhibitors, metalloenzymes (iron, nickel, molybdenum, copper), proteins of the immune system (antibodies and antibody receptors), protein hormones and their receptors, protein kinases, enzymes of amino acid biosynthesis, enzymes of cofactor and vitamin biosynthesis and proteins of energy and electron transfer. In addition, he has contributed to the development of instruments for data collection and to methods in protein crystallography, particularly Patterson methods, graphic methods, and refinement, to the use of electron rich metal clusters, and most recently to the methods and instruments for crystal improvement. He has been honoured by numerous honorary doctorates, professorships, memberships in learned societies and awards, including the Otto-Warburg Medal, the Emil von Behring Medal, the Sir Hans Krebs Medal, the The Linus Pauling Medal, Max Tishler Prize and, in 1988, the Nobel Prize for Chemistry together with H. Michel and J. Deisenhofer.

Address: <http://www.biochem.mpg.de/en/eg/huber/cv>

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