

CURRICULUM VITAE

PERSONAL INFORMATION



Name Joel L. Sussman
Born Sept. 24, 1943
Marital Status Widower + 3 children
Address Dept. of Structural Biology
Weizmann Institute of Science
Rehovot 76100 ISRAEL
Phone +972 8 934 4531
Fax +972 8 934 6312
E-mail joel.sussman@weizmann.ac.il
Web page <http://www.weizmann.ac.il/~joel>

EDUCATION

1972 Ph.D. MIT, Cambridge, MA, in Biophysics, with Prof. C. Levinthal
1965 B.A. Cornell University, Ithaca, NY, in Math & physics

PROFESSIONAL EXPERIENCE

2002 - Director, Israel Structural Proteomics Center (<http://www.weizmann.ac.il/ISPC>)
2002 - Incumbent of the Morton and Gladys Pickman Chair in Structural Biology
1994-99 Head, Protein Data Bank, Brookhaven National Laboratory, Upton, NY
1996 Organized Int'l Conf on 25th Anniversary PDB/10th Anniversary SwissProt, Jerusalem
1992 - Professor, Dept of Structural Biology, Weizmann Institute of Science (WIS)
1990 John von Neumann Visiting Professor in Residence - Rutgers University
1989-92 Visiting Scientist, NCI, Frederick, MD
1988-89 Head, Kimmelman Center for Biomolecular Structure & Assembly, WIS
1984-85 Head, Dept of Structural Chemistry, WIS
1982-85 Visiting Scientist, Fox Chase Cancer Center, Philadelphia, PA
1982-84 Visiting Scientist, Lab of Molecular Biology, NIH, Bethesda, MD
1980-92 Associate Prof., Dept of Structural Chemistry, WIS
1980-82 Israel Defense Forces, compulsory service
1979 Visiting Prof, Chemistry Dept, UC Berkeley, CA
1976-80 Senior Scientist, Dept of Structural Chemistry, WIS
1972-76 Research Associate, Biochemistry, Duke University with Prof. S-H Kim

HONORS & AWARDS

2010 EMBO Keynote Lecture, 3DSig Int'l Conference, Boston, MA
2009 Keynote Lecture, European Crystallography Conf, Istanbul
2009 EMBO Keynote Lecture, 10th Int'l Cholinesterase Conf, Sibenik
2009 Keynote Lecture, Asian Crystallography Conf, Beijing
2006 Teva Founders Prize for Breakthroughs in Molecular Medicine, with I. Silman
2005 Elkeles Prize for Outstanding Scientist in Medicine in Israel, with I. Silman
2000 Professor, *Honoris Causa*, Institute of Materia Medica, Chinese Academy of Sciences, Shanghai
1994 Elected Member of European Molecular Biology Organization (EMBO)
1991 U.S. Army Science Conference Award for outstanding research
1979 Bergmann Prize - Outstanding Research in Chemistry in Israel

NATIONAL & INTERNATIONAL POSITIONS

2009,11,13 Chairman, ERC Advanced Grant Program - Life Science Panel 1
2008-11 Member EMBO committee Young Investigators Programme (YIP)
2006-09 Member of Executive Board, Int'l Structural Genomics Org (ISGO)
2005-08 Coordinator EC Project – Forum for European Structural Proteomics (FESP)

- 2005 - Member Editorial Board: *Proteins*, *PEDS*, *PLoS ONE*, and *Evolutionary Bioinformatics*
- 2004-08 Member of the Scientific Advisory Board for the EC-BIOXHIT Project
- 2003 - Member of The Scientific Review Board – Institute for the Study of Aging
- 2002-06 Member of The European Synchrotron Radiation Facility SAC Committee
- 2002 - Chairman, Israel Council of Higher Education Bioinformatics Committee
- 2000 Member of the NIH Task Force & Council on Structural Genomics Initiative
- 2000- Member of SESAME (Middle East Synchrotron) Beam Line Committee
- 1998-04 Chairman, Israel National Committee for Crystallography
- 1998-03 Member of the Swiss Institute of Bioinformatics SAC Committee
- 1994-00 Member of the European Molecular Biology Lab (EMBL) SAC Committee
- 1991-93 President, Israel Crystallographic Society
- 1991-92 Special consultant to the ESRF (Grenoble) - Biological Crystallography

TEACHING EXPERIENCE

Weizmann Institute of Science – Feinberg Graduate School courses:

- Protein Structure and Function
- Protein DNA Interactions
- Seminar: “Bioinformatics”
- 2008 Co-Director, Erice School: *From Molecules to Medicines: Integrating Crystallography in Drug Discovery*
- 2007 Invited lecturer at the *HERCULES* School, Grenoble, France
- 2005 Invited lecturer at the European Graduate College, Groningen, Netherlands
- 2005 Co-Director, Erice School: *Evolving Methods in Protein Crystallography*
- 2001 Workshop on Protein Crystallography, Oulu: *Bioinformatics*
- 1994 Workshop on Protein Crystallography, Turku: *Refinement of Macromolecules*
- 1993 ESF School, Como: *Refinement Methods in Macromolecular Crystallography*
- 1993 EMBO School, Heidelberg: *Refinement Techniques and Map Interpretation*
- 1990 Int'l Crystallography School, Bischofshausen: *Refinement of Macromolecules*
- 1990 EMBO School, Heidelberg: *Protein Cryogenic Crystallography*
- 1988 EMBO-ESF School, Como: *Protein Refinement Methods*
- 1984 Int'l Crystallography School, Kyoto: *Protein Refinement Methods*
- 1981 EMBO School, Pavia: *Mathematical & Physical Aspects of EM & X-rays*

SERVICE POSITIONS AT WEIZMANN INSTITUTE

- 2004-07 Member of the Chemistry Faculty Promotions Committee
- 2000-03 Coordinator of the Bioinformatics Program, WIS Feinberg Graduate School
- 1991 - Member of the Board of Trustees of the Aharon-Katzir Katchalsky Center
- 1986-87 Head of the Weizmann Computing Steering Committee
- 1978-81 Member of the Board of Studies of the Feinberg Graduate School

CURRENT RESEARCH GRANTS & CONTRACTS

- 2007-11 US-NIH “Center for Catalytic Bioscavenger Medical Defense Research” Collaborator: D. Tawfik. [\$92,000/year]
- 2007-10 US-Defense Threat Reduction Agency (DTRA) “Ultra-High-throughput Screens for Rapid Identification of Potential Therapeutic Biomolecules for Existing and Emerging Threats” Collaborator: D. Tawfik. [\$232,133/year]
- 2006-10 EC-VIth Framework Integrated Project: “SPINE2-COMPLEXES From Receptor to Gene: Structure of Complexes” – within the Quality of Life and Management of Living Resources Collaborators: D. Stuart, Oxford Univ (coordinator) + 20 other partners <http://www.spine2.eu> [€279,482]
- 2007-10 EC-VIth Framework SSA: “TEACH-SG” – within the Quality of Life and Management of Living Resources Collaborators: D. Stuart, Oxford Univ (coordinator) + 10 other partners <http://www.teach-sg.eu/TeachSG> [€76,870]
- 2008-10 EC-VIIth ESFRI-INSTRUCT (Infrastructure for Integrated Structural Biology in Europe) Collaborators: G. Schreiber & L. Frydman, D. Stuart, Oxford Univ (coordinator) + 5 partners <http://www.instruct-fp7.eu/Instruct/about.jsp> [€360,000]

Ph.D. Student	Years	Current Position
Leemor Joshua-Tor	1987-91	Professor & Dean of Graduate School - Cold Spring Harbor Lab
Ron Unger	1987-90	Associate Professor - Bar Ilan University, Ramat Gan
Oded Livnah	1989-93	Associate Professor - Hebrew University, Jerusalem
Orly Dym	1989-93	Research Scientists – ISPC, Weizmann Institute of Science
Ziv Reich	1991-94	Senior Lecturer – Weizmann Institute of Science
Mia Raves	1993-97	Research Scientist – Solvay Corp., Utrecht, The Netherlands
Simone Botti	1996-00	CEO, BioStrX Ltd., Ramat Gan, Israel
Pazit Bar-On	1997-02	Postdoc – University of California, San Diego, CA
Hay Dvir	2000-04	Postdoc – Salk Institute, San Diego, CA
Lakshmanane Premkumar	2000-05	Postdoc – Burnham Institute, San Diego, CA
Orna Man	2002-08	Postdoc – UC Berkeley, CA
Tzviya Zeev-Ben-Mordehai	2002-08	Postdoc – Oxford University, Oxford, UK
Aviv Paz	2003-09	Postdoc – UCLA
Boris Brumshtein	2004-09	Postdoc – UCLA
*Minjun Li	2006-	Ph.D. Student - Weizmann Institute of Science
*Moshe Ben-David	2008-	Ph.D. Student - Weizmann Institute of Science

Postdoc	Years	Current Position
Ruth Nussinov	1979-80	Professor - Tel Aviv University
Mark A. Saper	1985-87	Professor - University of Michigan
Ulrike Wagner	1989-92	Senior Scientist - University of Gratz, Austria
Kurt Giles	1996-99	Research Professor – UCSF, San Francisco
Gitay Kryger	1996-00	Research Scientist - Compugen Corp, Tel Aviv
Harry Greenblatt	1996-	Research Scientist - Weizmann Institute of Science
Ann Nicolas	1998-01	Research Scientist – UCL, London, UK
Ofer Yifrach	2002-03	Senior Lecturer – Ben Gurion University, Beer Sheva,
Edwin Rydberg	2000-03	Scientist – Merck, Rome, Italy
Dawn Wong	2000-03	Research Professor – Virginia Tech, Blacksburg, VA
Vijayabaskar Veerappan	2001-03	Assistant Professor - Madurai Kamaraj Univ, Madurai, India
Yechun Xu	2005-08	Assistant Professor - Shanghai Inst of Materia Medica, CAS
Grzegorz Wieczorek	2010-	Postdoc - Weizmann Institute of Science

Visiting Scientist	Years	Current Position
Adrian Goldman	1990, 2009	Professor, University of Helsinki
Judith G. Voet	1992, 97, 09	Professor, Swarthmore College, PA
Donald Voet	1992, 97, 09	Professor, Univ of Pennsylvania, PA
Paul H. Axelsen	1993-94	Professor, Univ of Pennsylvania, PA
Charles B. Millard	1997-99	Research Scientist, USAMRIID, Frederick, MD
Gertraud Koellner	1998	Research Scientist, Freie Univ of Berlin
Thomas Steiner	1998	Research Scientist, Freie Univ of Berlin
Mitch Guss	1998	Professor, Univ of Sydney, Australia
Arthur Grollman	1999	Professor, State Univ of Stony Brook, NY
Hua-Liang Jiang	1999	Professor, Shanghai Inst of Materia Medica, CAS
Terry Lewis	2000	Research Scientist, Zeneca Agrochemicals
John Moulton	2004,5,6,7,8	Professor, CARB, Univ of MD, Rockville, MD
Osnat Herzberg	2004,5,6,7,8	Professor, CARB, Univ of MD, Rockville, MD
Jacques Colletier	2006	Postdoc, UCLA, CA
Péter Tompa	2006	Professor, Hungarian Academy of Sciences, Budapest
Monika Fuxreiter	2006	Senior Scientist, Hungarian Academy of Sciences, Budapest
Eric Martz	2008	Professor, Univ of Massachusetts, MA
Yechun Xu	2008-09	Professor, Shanghai Inst of Materia Medica, CAS
Irving Listowsky	2009	Professor, State Univ of Stony Brook, NY

Keith Dunker	2009	Professor, Indiana University School of Medicine, Indianapolis, IN
George Rose	2010	Professor, Johns Hopkins University, Baltimore, MD
David Canner	2010 -	Visiting Student, Weizmann Institute of Science
Marcin Suskiewicz	2010 -	Visiting Student, Weizmann Institute of Science