

CURRICULUM VITAE

PERSONAL INFORMATION



Name Joel L. Sussman
Born Sept. 24, 1943
Marital Status Widower + 3 children + 1 granddaughter
Address Dept. of Structural Biology
Weizmann Institute of Science
Rehovot 76100 ISRAEL
Phone +972 8 934 6309
Fax +972 8 934 6312
E-mail joel.sussman@weizmann.ac.il
Web page <http://www.weizmann.ac.il/~joel>
ID: ORCID & Scopus [0000-0003-0306-3878](https://orcid.org/0000-0003-0306-3878) & [7102888560](https://scopus.com/authid/detail.url?authorID=7102888560)

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

2016 - Professor Emeritus, Dept of Structural Biology, Weizmann Institute of Science (WIS)
2014- Co-Director, Israel Structural Proteomics Center (<http://www.weizmann.ac.il/ISPC>)
2002-14 Director, Israel Structural Proteomics Center (<http://www.weizmann.ac.il/ISPC>)
2002-14 Incumbent of the Morton and Gladys Pickman Chair in Structural Biology
1994-99 Head, Protein Data Bank, Brookhaven National Laboratory, Upton, NY
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

2020 Honorary Doctorate, Charles University, Prague, Czech Republic
2017 Honorary Doctorate, University of Oulu, Oulu, Finland
2016 Honorary Professor, Amity Institute of Biotechnology, Noida, Uttar Pradesh, India
2014 Clarence Broomfield Award for outstanding research achievements, US Medical Chem Defense
2014 ILANIT-Ephraim Katzir Prize, with Israel Silman
2013 Elected as a Fellow to the AAAS
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*, Inst of Materia Medica, Chinese Acad of Sci, with I. Silman
1994 Elected Member of European Molecular Biology Organization (EMBO)
1991 U.S. Army Science Conference Award for outstanding research, with I. Silman & H. Soreq
1979 Bergmann Prize - Outstanding Research in Chemistry in Israel

REVIEW & ADVISORY BOARDS

2020- Member: SAC: [SESAME](#), Synchrotron-light for Expt'l Sci & Appl in the Middle East, JO
2017- Member: [VIB Center for Structural Biology](#)'s Advisory Board, Vrije Universiteit Brussels
2016- Member: [BIOCEV](#)'s International Scientific Board, Vestec, Czech Republic
2015-2016 Member, ERC Advanced Grant Program - [Life Science Panel 1](#) (LS1)

- 2013- Member: [Regional Centre for Biotechnology](#), Priority Advisory Committee, Faridabad, India
 2012- Member, [EMBL-Hamburg Outstation](#): Priority Evaluation Committee
 2011-2014 Member of SAC Committee for [The Partnership in Structural Biology](#) (PSB), Grenoble, France
 2011-2016 Chairman, EC-BioStruct-X Project: Priority Evaluation Committee
 2011-2012 Member of the Long-Term Scientific Mission Working Group of the ESRF
 2009,11,13 Chairman, ERC Advanced Grant Program - [Life Science Panel 1](#) (LS1)
 2008-11 Member EMBO committee [Young Investigators Programme](#) (YIP)
 2005- Member Editorial Board: *Proteins*, *PEDS*, *PLoS ONE*, and *Evolutionary Bioinformatics*
 2003-2014 Member of The Scientific Review Board - [Alzheimer's Drug Discovery Foundation](#)
 2002-08 Chairman, Israel Council of Higher Education Bioinformatics Committee
 2002-06 Member of the [European Synchrotron Radiation Facility](#) SAC Committee
 2000 Member of the NIH Task Force & Council on Structural Genomics Initiative
 1998-03 Member of the [Swiss Institute of Bioinformatics](#) SAC Committee
 1994-00 Member of the [European Molecular Biology Lab](#) (EMBL) SAC Committee

INTERNATIONAL & NATIONAL POSITIONS

- 2020 Co-Organizer (with V. Ramakrishnan, R. Henderson & N. Nelson), Jerusalem, [Structural Biology: "The Molecular Fabric of Life"](#) – IL Acad of Sci & Humanities–UK Royal Soc, Joint Workshop
 2019- Member of the Israel National Synchrotron Committee
 2019 Co-Organizer (with D. Nair), Faridabad, IN, "[Structure Assisted Discovery of Novel Therapeutics](#)"
 2019 Chair, [FEBS Executive Committee](#)
 2018 Vice Chair, [FEBS Executive Committee](#)
 2018 Organized Int'l Conf: "[Open SESAME & Instruct-ERIC Workshop on Remote X-ray Data Collection from European Synchrotrons at the Weizmann Inst of Sci](#)", Rehovot
 2016 Organized Int'l Conf: "[Technological Revolution in Struct Biol: Impact on Biol & Chem](#)", Rehovot
 2015 Organized [Int'l Conf on Molecular Machines](#), Rehovot
 2015 Organized [Int'l Conf on Structural Genomics](#) "Deep Sequencing Meets Struct Biol", Rehovot
 2011- Consultant to Israel Ministry of Science for [EMBL](#) & [EMBO](#) Councils
 2010- Member of the Executive Committee & Scientific Council: [Instruct-ERIC](#) (ESFRI)
 2008 Co-Developed [Proteopedia](#) - Free, collaborative 3D-encyclopedia of proteins & other molecules
 2008 Co-Director (with Colin Groom), Erice, IT, Int'l School: Integrating Crystallogr in Drug Discovery
 2006- Member of Executive Board, [International Structural Genomics Org](#) (ISGO)
 2005-08 Coordinator EC Project - [Forum for European Structural Proteomics](#) (FESP)
 2005 Co-Director (with Randy Read), Erice, IT, Int'l School: Evolving Methods in Protein Crystallography
 2000-11 Member of [SESAME](#) (Middle East Synchrotron) Beam Line Committee
 1998-04 Chairman, Israel National Committee for Crystallography
 1996 Organized [Int'l Conf on 25th Anniversary PDB/10th Anniversary SwissProt](#), Jerusalem
 1991-93 President, Israel Crystallographic Society
 1991-92 Special consultant to the ESRF (Grenoble) - Biological Crystallography

INVITED LECTURES

- 2020 Invited Lecture at [India Institute of Science](#), Bangalore, India
 2019 Invited Lecture at [Hong Kong University of Science and Technology](#), Hong Kong
 2019 Invited Lecture at [IIT, Indore](#), IN
 2018 Invited Lecture, [SESAME Synchrotron](#), Allan, Jordan
 2018 Invited Lecture, [Ewha Womans University](#), Seoul, Korea
 2018 Invited Lecture, Queenstown Molecular Biology Meeting (Shanghai), China
 2017 Invited Lecture at [Bose Institute](#), Kolkata, IN
 2017 Invited Lecture at [Hong Kong University of Science and Technology](#), Hong Kong
 2017 Invited Lecture at [Macromolecular Crystallography Lab, NCI-Frederick](#), MD
 2017 Invited Lecture at [Umeå University](#), Umeå, SE
 2016 EMBO Keynote Lecture, [XVth Int'l Symposium on Cholinergic Mechanisms](#), Marseille, France
 2016 [The Alex Rich Memorial Lecture](#), MIT, Cambridge, MA
 2012 EMBO Keynote Lecture, 11th Int'l Cholinesterase Conf, Kazan, Russia
 2010 EMBO Keynote Lecture, 3DSig Int'l Conference, Boston, MA
 2009 Keynote Lecture, European Crystallography Conf, Istanbul, Turkey
 2009 EMBO Keynote Lecture, 10th Int'l Cholinesterase Conf, Sibenik, Croatia

2009 Keynote Lecture, Asian Crystallography Conf, Beijing

TEACHING EXPERIENCE

2012,14 Invited lectures at ICTP, Trieste, IT: Workshop: Introduction to Synchrotron-Based Struct Biology
2007 Invited lecturer at the *HERCULES* School, Grenoble, FR
2005 Invited lecturer at the European Graduate College, Groningen, NL
2001 Workshop on Protein Crystallography, Oulu, FI: *Bioinformatics*
1994 Workshop on Protein Crystallography, Turku, FI: *Refinement of Macromolecules*
1993 ESF School, Como, IT: *Refinement Methods in Macromolecular Crystallography*
1993 EMBO School, Heidelberg, DE: *Refinement Techniques and Map Interpretation*
1991-2008 Protein Structure/Function, Weizmann Institute of Science, Feinberg Graduate School
1990 Int'l Crystallography School, Bischenberg, DE: *Refinement of Macromolecules*
1990 EMBO School, Heidelberg, DE: *Protein Cryogenic Crystallography*
1988 EMBO-ESF School, Como, IT: *Protein Refinement Methods*
1984 Int'l Crystallography School, Kyoto, JP: *Protein Refinement Methods*
1981 EMBO School, Pavia, IT: *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
1991-12 Member of the Board of Trustees of the Aharon-Katzir Katchalsky Center
1986-87 Head of the Weizmann Computing Steering Committee

CURRENT RESEARCH GRANTS & CONTRACTS

2017-20 [Instruct-ULTRA](#) "To enhance and booster structural biology provision across Europe and beyond"
2010- [Instruct-ERIC](#) "Integrated Res Infrastructure for Struct Biol" Member of the Executive Committee

Ph.D. Student

Ph.D. Student	Years	Current Position
Leemor Joshua-Tor	1987-91	Professor & Dean of Graduate School - Cold Spring Harbor Lab
Ron Unger	1987-90	Professor - Bar Ilan University, Ramat Gan
Oded Livnah	1989-93	Professor - Hebrew University, Jerusalem
Orly Dym	1989-93	Senior Research Scientists – ISPC, Weizmann Institute of Science
Ziv Reich	1991-94	Vice President - Weizmann Institute of Science
Mia Raves	1993-97	Research Scientist - Netherlands Metabolomics Centre, U of Amsterdam
Simone Botti	1996-00	CEO at Metabomed Ltd., Yavne, Israel
Pazit Bar-On	1997-02	Res Scientist - University of California, San Diego, CA
Hay Dvir	2000-04	ARO, Volcani Center, Rishon LeZion, Israel
Lakshmanane Premkumar	2000-05	Research Assistant Professor, Univ of North Carolina, Chapel Hill, NC
Orna Man	2002-08	Staff Scientist, Bioinformatics at Thermo Fisher Scientific
Tzviya Zeev-Ben-Mordehai	2002-08	Associate Prof, EM Group, Utrecht Univ, Utrecht, NL
Aviv Paz	2003-09	Assistant Prof, Hauptman-Woodward Med Res Inst, Buffalo, NY
Boris Brumshtein	2004-09	Senior Scientist, Gilead Sciences
Minjun Li	2006-11	Research Scientist - Shanghai Synchrotron Radiation Facility
Moshe Ben-David	2008-12	Director of Protein Engineering, Ukko Inc.

Postdoc

Postdoc	Years	Current Position
Ruth Nussinov	1979-80	Head, Computational Structural Biology, NCI, Frederick, MD
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	Senior Patent Scientist - Ehrlich & Fenster, Tel Aviv, Israel
Harry Greenblatt	1996-	Research Scientist - Weizmann Institute of Science
Ann Nicolas	1998-01	CEO, <i>Et brode le papillon</i> , Voiron, France
Ofer Yifrach	2002-03	Senior Lecturer – Ben Gurion University, Beer Sheva,
Edwin Rydberg	2000-03	CEO, <i>Alternate Futures</i> , Voiron, France
Dawn Wong	2000-03	Research Professor – Virginia Tech, Blacksburg, VA
Yechun Xu	2005-08	Assistant Professor - Shanghai Inst of Materia Medica, CAS, China

Grzegorz Wieczorek	2010-13	Research Scientist - Polish Academy of Sciences, Warsaw, Poland
Nidhi Aggarwal	2014-17	Research Scientist, Mumbai, India

Visiting Scientist

	Years	Current Position
Adrian Goldman	1990, 2009	Professor, University of Helsinki, Finland
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, Germany
Thomas Steiner	1998	Research Scientist, Freie Univ of Berlin, Germany
Mitch Guss	1998	Professor, Univ of Sydney, Australia
Arthur Grollman	1999, 2018	Professor, State Univ of Stony Brook, NY
Hua-Liang Jiang	1999	Professor, Shanghai Inst of Materia Medica, CAS, China
Terry Lewis	2000	Research Scientist, Zeneca Agrochemicals, Bracknell, UK
John Moulton	2004, ..., 19	Professor, CARB, Univ of MD, Rockville, MD (1 month a year)
Osnat Herzberg	2004, ..., 19	Professor, CARB, Univ of MD, Rockville, MD (1 month a year)
Jacques Colletier	2006	Research Scientists, IBS, Grenoble, France
Péter Tompa	2006	Professor, Vrije Universiteit Brussel, Belgium
Monika Fuxreiter	2006	Professor, University of Debrecen, Debrecen, Hungary
Eric Martz	2008	Professor, Univ of Massachusetts, MA
Yechun Xu	2008-09	Professor, Shanghai Inst of Materia Medica, CAS, China
Irving Listowsky	2009, 14, 15	Professor, State Univ of Stony Brook, NY
Keith Dunker	2009, 15	Professor, Indiana University School of Medicine, Indianapolis, IN
George Rose	2010	Professor, Johns Hopkins University, Baltimore, MD
David Canner	2010	MIT/Harvard MD/PHD Program, Cambridge, MA
Marcin Suskiewicz	2010	PhD Student, Res Inst of Molecular Pathology (IMP), Vienna, Austria
Robert Hanson	2013	Professor, St. Olaf College, MN, USA
Gauri Misra	2014	Professor, Amity University, Noida, India
Angel Herraes	2014, 17, 18	University of Alcalá, Alcalá De Henares, Spain
Grzegorz Wieczorek	2016	Polish Academy of Sciences, Warsaw, Poland
Dorota Niedzialek	2016	Int'l Institute of Molecular and Cell Biology in Warsaw, Poland
Bohdan Shneider	2017	BIOCEV, Institute of Biotechnology, Vestec, Czech Republic
Shuguang Zhang	2017	MIT, Cambridge, MA
Jacek Majewski	2018	McGill University, Montreal, Canada
Rik Wierenga	2018, 19	Univ of Oulu, Oulu, Finland