

# CURRICULUM VITAE

## PERSONAL INFORMATION



**Name** Joel L. Sussman  
**Born** Sept. 24, 1943  
**Marital Status** Widower + 3 children + 1 granddaughter  
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## 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)  
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

2017 Honorary Doctorate, University of Oulu, Oulu, Finland  
2016 Honorary Professor at Amity Institute of Biotechnology, Noida, Uttar Pradesh, India  
2014 Clarence Broomfield Award for outstanding research achievements in 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

## NATIONAL & INTERNATIONAL POSITIONS

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  
2017- Member: [VIB Center for Structural Biology](#)'s Advisory Board, Vrije Universiteit Brussel, Belgium  
2016- Member: [BIOCEV](#)'s International Scientific Board, Vestec, Czech Republic

- 2016 Organized Int'l Conf: "[Technological Revolution in Struct Biol: Impact on Biol & Chem](#)", Rehovot
- 2015-2016 Member, ERC Advanced Grant Program - Life Science Panel 1 (LS1)
- 2015 Organized [Int'l Conf on Molecular Machines](#), Rehovot
- 2015 Organized [Int'l Conf on Structural Genomics](#) "Deep Sequencing Meets Struct Biol", Rehovot
- 2013- Member: [Regional Centre for Biotechnology](#), Priority Advisory Committee, Faridabad, India
- 2012- Member, [EMBL-Hamburg Outstation](#): Priority Evaluation Committee
- 2011- Consultant to Israel Ministry of Science for [EMBL](#) & [EMBO](#) Councils
- 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
- 2010- Member of the Executive Committee: [Instruct](#) (ESFRI)
- 2009,11,13 Chairman, ERC Advanced Grant Program - Life Science Panel 1 (LS1)
- 2008-11 Member EMBO committee [Young Investigators Programme](#) (YIP)
- 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
- 2005- Member Editorial Board: *Proteins*, *PEDS*, *PLoS ONE*, and *Evolutionary Bioinformatics*
- 2003-2014 Member of The Scientific Review Board - [Alzheimer's Drug Discovery Foundation](#)
- 2002-06 Member of the [European Synchrotron Radiation Facility](#) SAC Committee
- 2002-08 Chairman, Israel Council of Higher Education Bioinformatics Committee
- 2000 Member of the NIH Task Force & Council on Structural Genomics Initiative
- 2000-11 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
- 1996 Organized [Int'l Conf on 25<sup>th</sup> Anniversary PDB/10<sup>th</sup> Anniversary SwissProt](#), Jerusalem
- 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

## INVITED LECTURES

- 2019 Invited Keynote at [ICACSB](#), Chennai, IN
- 2018 Invited Lecture, EWHA Womans University, Seoul, Korea
- 2018 Invited Lecture, Queenstown Molecular Biology Meeting (Shanghai), China
- 2016 EMBO Keynote Lecture, XV<sup>th</sup> Int'l Symposium on Cholinergic Mechanisms, Marseille, France
- 2016 The Alex Rich Memorial Lecture, MIT, Cambridge, MA
- 2012 EMBO Keynote Lecture, 11<sup>th</sup> 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, 10<sup>th</sup> Int'l Cholinesterase Conf, Sibenik, Croatia
- 2009 Keynote Lecture, Asian Crystallography Conf, Beijing
- 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

## 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, Bischofberg, DE: <i>Refinement of Macromolecules</i>
1990	EMBO School, Heidelberg, DE: <i>Protein Cryogenic Crystallography</i>
1988	EMBO-ESF School, Como, IT: <i>Protein Refinement Methods</i>
1984	Int'l Crystallography School, Kyoto, JP: <i>Protein Refinement Methods</i>
1981	EMBO School, Pavia, IT: <i>Mathematical &amp; Physical Aspects of EM &amp; X-rays</i>

## 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
1978-81	Member of the Board of Studies of the Feinberg Graduate School

## CURRENT RESEARCH GRANTS & CONTRACTS

2016-19	Israel Science Foundation/National Science Foundation of China Joint Research Grant – “Therapeutic targets for neurodegenerative research: Gaucher disease as a prototype”
2015-19	NIH Grant (Prof. John Moulton, PI), “Molecular Impact of Mutations in Monogenic Disease and Cancer”
2014-19	<a href="#">iNEXT</a> (EC) Project – “Infrastructure for NMR, EM & X-ray crystallography for translational res”
2010-	<a href="#">Instruct - ERIC</a> “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	Associate Professor - 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 LeTsiyon, 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	Assistant Prof, EM Group, Utrecht Univ, Utrecht, NL
Aviv Paz	2003-09	Assistant Prof, Hauptman-Woodward Med Res Inst, Buffalo, NY
Boris Brumshtein	2004-09	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, Center for Cancer Res, NCI
Mark A. Saper	1985-87	Professor - University of Michigan
Ulrike Wagner	1989-92	Senior Scientist - University of Graz, 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	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
Yechun Xu	2005-08	Assistant Professor - Shanghai Inst of Materia Medica, CAS, China
Grzegorz Wiczorek	2010-13	Research Scientists - Polish Academy of Sciences, Warsaw, Poland
Nidhi Aggarwal	2014-17	Postdoc Weizmann Institute of Science

<b>Visiting Scientist</b>	<b>Years</b>	<b>Current Position</b>
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	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, ..., 18	Professor, CARB, Univ of MD, Rockville, MD (1 month a year)
Osnat Herzberg	2004, ..., 18	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
Rik Wierenga	2018	Univ of Oulu, Oulu, Finland
Arthur Grollman	2018	State Univ of NY, Stony Brook, NY
Jacek Majewski	2018	McGill University, Montreal, Canada