

# 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 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

- 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: *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  
 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 [iNEXT](#) (EC) Project – “Infrastructure for NMR, EM & X-ray crystallography for translational res”  
 2010- [Instruct - ERIC](#) “Integrated Research Infrastructure in Europe for Structural Biology” 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 | Senior Postdoc - Weizmann Institute of Science                     |