

MICHAL SHARON

CURRICULUM VITAE

October, 2021

A. PERSONAL DETAILS

Date of Birth: March 25th 1972

Country of Birth: Israel

Citizenship: Israeli, German

Marital Status: Married, +3 (Ori 1998, Naama 2001, Ronni 2007)

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B. EDUCATION

2003-2006 Post-doctoral research under Prof. Carol V. Robinson, Department of Chemistry, University of Cambridge, Cambridge, UK.

Field of study: Mass spectrometry of large non-covalent complexes.

1996-2003 M.Sc./Ph.D. combined program (direct PhD) under Prof. Jacob Anglister, Department of Structural Biology, Weizmann Institute of Science, Rehovot, Israel.

Field of study: Three-dimensional structure determination of protein complexes using multidimensional NMR

Thesis title: Suggested mechanism for HIV-1 coreceptor selectivity unveiled by the NMR structure of a V3_{MN} peptide in complex with a human neutralizing antibody.

1993-1996 B.Sc. Chemistry, The Hebrew University, Jerusalem, Israel, *Cum laude*.

C. EMPLOYMENT

2021-present Professor at the Department of Biomolecular Sciences, The Weizmann Institute of Science, Rehovot, Israel.

2015-2021 Associate Professor at the Department of Biomolecular Sciences, The Weizmann Institute of Science, Rehovot, Israel.

2007-2015 Senior Scientist (equivalent to Assistant Professor) at the Department of Biological Chemistry, The Weizmann Institute of Science, Rehovot, Israel.

2006-2007 Royal Society Research Fellow, Department of Chemistry, University of Cambridge, Cambridge, UK.

D. ACADEMIC ADMINISTRATION

2021-present Member, Young Weizmann Scholars Diversity and Excellence Committee

2021 Member, Institute Equipment Committee

2020-present Member, Scientific Council: Instruct-ERIC (ESFRI)

2020-present Member, Young Weizmann Scholars for Minority Groups Committee

2020-present Member of the GET Steering Committee for Promoting Gender Equality at WIS

2020-2023 Head, Dana and Yossie Hollander Center for Structural Proteomics

2020-2023 Member, Weizmann Appointments and Promotion Committee (V9)

2019-present Elected, National Forum of Promoting Women Scientists

2019-2021 Member, Panel Advisory Board, Journal of Analytical Chemistry

2019	Member, Israel Science Foundation (ISF) review committee
2019	Member, Committee of Young Weizmann Scholars Program for the Arab Sector
2018	Member, Judgment Committee Falling Walls conference
2017-2020	Vice President, ILANIT, the Federation of 32 Israeli Societies of Experimental Biology
2017-2020	Head, Division of Research Services, Weizmann Institute
2017	Member, Committee of Appointment of Senior Scientists, Life Sciences Faculties
2016-2017	Board Member, Schwartz/Reisman Science Education Center
2016-present	Head, Proteomics Unit Advisory Committee of Israel National Center for Personalized Medicine (INCPM)
2016-present	Member, Davidson Institute Steering Committee for Northern Israel Educational Activities
2015-present	Education Officer, International Mass Spectrometry Foundation (IMSF)
2014-2018	Member, Management Board of COST (European Cooperation in Science and Technology)-Action BM1403 "Native Mass Spectrometry and Related Methods for Structural Biology"
2014-2018	Vice-President, Israeli Biochemistry Society
2013-2016	President, Israeli Mass Spectrometry Society
2013-2017	Board Member, Hemda, Center for Science Education, Rehovot
2013-2014	Member, Katzir travel fellowship committee
2013-2014	Board Member, Israeli Biochemistry Society
2013-2016	Member, Proteomics unit advisory committee of Israel National Center for Personalized Medicine (INCPM)
2013	Organizer, Biological Chemistry Departmental Retreat
2012-2013	Vice-President, Israeli Mass Spectrometry Society
2011-2013	Organizer, Biological Chemistry Departmental Seminars
2011-2012	Senior Scientists Representative, Scientific Council of the Weizmann Institute of Science
2009	Member, Steering Committee on the Involvement in Instruct: EU Hub for Structural Biology
2009	Member, Kadima Mada - Weizmann Institute of Science excellence award committee

E. OTHER APPOINTEMENTS

TEACHING ACTIVITIES

The courses during 2020 were postponed due to COVID-19

2022	EMBO Course on Integrative & Cellular Structural Biology, Paris, France
2022	Structural Mass Spectrometry Workshop, Bordeaux, France
2021	1 st PROTrEIN Summer School, Virtual
2021	Quantitative Proteomics: Strategies and Tools to Probe Biology, Heidelberg, Germany
2019	International Mass Spectrometry School, Barcelona, Spain
2019	Advancing Mass Spectrometry Workshop, Amherst, USA
2019	ASMS Tutorial Lecture on "Native Mass Spectrometry", Atlanta, USA
2019	Native MS Guided Structural Biology Workshop, MA, USA
2017	Lecturer & Organizer, International Structural Mass Spectrometry Workshop, Rehovot, Israel
2016	Lecturer, Practical Course on "Top Down and Structural Mass Spectrometry", Lisbon, Portugal
2015	Lecturer, 9th European summer school of "Advanced Proteomics", Brixen, Italy
2014-present	Lecturer, course on "Chromatography and Mass Spectrometry for Analysis of Biomolecules", Feinberg Graduate School, Weizmann Institute of Science (taught together with other teachers)

- 2013 7th European Summer School of "Advanced Proteomics", Brixen, Italy
- 2012 Graduate School Spring Meeting, Martin-Luther-Universität Halle-Wittenberg, Germany
- 2011 EMBO Practical Course on "Protein-Protein and Protein-Nucleic Acid Cross-Linking and Mass Spectrometry", Göttingen, Germany
- 2011 Lecturer, course on "Biochemistry of enzymes and proteins", The Hebrew University of Jerusalem (taught together with other teachers)
- 2010 Lecturer and Coordinator course on "Advanced Protein Science", Feinberg Graduate School, Weizmann Institute of Science (alongside Profs. Dan Tawfik and Gideon Schreiber)
- 2009, 2010 Lecturer, course on "Theoretical Basis of Common Lab Techniques Course", Weizmann Institute of Science (taught together with other teachers)

EDUCATIONAL OUTREACH ACTIVITIES

- 2021 Speaker, Israeli Universities Joint Symposium for International Women's Day
- 2021 Speaker, Power Independence and Career Symposium for High School Girls
- 2020 Speaker, UK-Israel Women Leading Innovation Empowering Scientific Excellence
- 2017-2020 Initiator and Organizer, "Private Investigator" column in YNET (Israeli news website)
- 2016 Speaker, EuroScience Open Forum, "Mass Spectrometry for the Masses", Manchester, UK
- 2015-present Initiator and Lecturer, workshop on "Combining Motherhood and Science", Weizmann Institute of Science, (alongside Profs. Nirit Dudovich and Maya Schuldiner)
- 2014 Lecturer, for PhD students on "How to Write a Good CV"
- 2009 Lecturer, Taasiya Avirit Evening Program Organized by the Davidson Institute for Science Education, Weizmann Institute, Rehovot, Israel
- 2009 Giving the "Amos de-Shalit Lecture", Weizmann Institute of Science
- 2009 Lecturer, "The Raya Cowan International Summer School' program of the Feinberg Graduate School
- 2008, 2009 Lecturer, various evening programs organized by the Davidson Institute for Science Education, Weizmann Institute of Science
- 2008, 2009 Lecturer, "Amos de-Shalit Ulpana" for both Chemistry and Biology, Weizmann, Institute of Science

F. INTERNATIONAL RECOGNITION

PRIZES AND AWARDS

- 2019 Elected to the "Leading in Academia" program for outstanding scientists
- 2018 Mass Spectrometry in the Life Sciences Award, European Mass Spectrometry Conference
- 2017 Elected to the Young Israeli National Academy of Science
- 2014 ERC Starting Grant from the EU (LS1)
- 2009 ERC Starting Grant from the EU (PE4)
- 2008 Research Career Development award, ICRF
- 2007 Elected as Life Member Clare Hall College, University of Cambridge, UK
- 2006 Dorothy Hodgkin Royal Society fellowship
- 2006 Research Fellow at Clare Hall College, University of Cambridge, UK
- 2004 Wingate Scholarship
- 2004 EMBO Postdoctoral Fellowship

- 2004 Israel Chemical Society Prize for Excellence in PhD studies
- 2003 Bikura post-doctoral fellowship founded by the Israeli Academy of Science and Humanities.
- 2001 Salim and Rachel's fund of Excellence Education
- 1996 *Magna cum laude* in chemistry, the Hebrew University, Jerusalem
- 1995 Dean prize, the Hebrew University, Jerusalem
- 1995 Elving Prize for High Achievements In Analytical Chemistry, the Hebrew University, Jerusalem

INTERNATIONAL ORGANIZING COMMITTEES

- 2022 Initiator and Organizer of the 1st meeting on 20S Proteasome Degradation, Rehovot, Israel
- 2021 Co-organizer of The Advancement of Young Women Researchers in Academia Conference
- 2018 Initiator and Organizer Proteasome Hub: Fine-Tuning of Proteolytic Machines, Munich, Germany
- 2017 Initiator and Organizer International Structural Mass Spectrometry Workshop, Rehovot, Israel
- 2017 Organizer of the 2017 FEBS meeting in Jerusalem, Israel
- 2017 Session Organizer, 8th ILANIT meeting, Eilat, Israel
- 2017 Organizer, 29th meeting of the Israel Society for Mass Spectrometry joint with the American Mass Spectrometry Society, Rehovot, Israel
- 2017 Co-initiator & Organizer of the Ubiquitin-Proteasome System Israeli Club
- 2016 Organizer 10th Parnas Conference in Wroclaw, Poland
- 2016 Organizer, 28th meeting of the Israel Society for Mass Spectrometry joint with the British Mass Spectrometry Society, Rehovot, Israel
- 2015 Session Organizer, 63rd ASMS Conference on Mass Spectrometry & Allied Topics, St. Louis, USA
- 2014 Chair of the Organizing Committee of the Israel Biochemistry Society Annual Meeting, Rehovot, Israel
- 2014 Organizer, 27th meeting of the Israel Society for Mass Spectrometry joint with the Swiss Mass Spectrometry Society, Rehovot, Israel
- 2014 Session Organizer, 20th International Mass Spectrometry Society Conference, Geneva, Switzerland
- 2014 Session Organizer, 7th ILANIT meeting, Eilat, Israel
- 2013 Organizer, 26th meeting of the Israel Society for Mass Spectrometry joint with the German Mass Spectrometry Society, Israel
- 2010 Organizer, 1st Middle Eastern & Mediterranean Sea Region Countries Mass Spectrometry, Rehovot, Israel
- 2010 Organizer, Zomes 6, Expanding the PCI Family Beyond Proteasome, CSN & eiF3, Safed, Israel
- 2008 Organizer, 7th Congress of the Israel Association for Medicinal Chemistry, Rehovot, Israel

REVIEW AND EDITORIAL APPOINTMENTS

- 2019-2021 Features Panel Advisory Board, Journal of Analytical Chemistry
- 2012-2016 Member of the editorial board of *Current Opinion in Structural Biology*
- 2011 Editor, alongside Prof. Carol V. Robinson, "Biophysical Methods" issue of *Current Opinion in Structural Biology*

TALKS AT INTERNATIONAL MEETINGS

Some of the meetings during 2020 were postponed due to COVID-19

- 2023 EMBO Workshop on Protein Quality Control, Dubrovnik, Coretia
- 2021 Ultrahigh Molecular Weight Mass Spectrometry Workshop, Lake Louise, Canada

2021 2nd Fusion Conference on Ubiquitin Function in Health & Disease, Virtual

2021 4th Targeted Protein Degradation Summit, Virtual

2021 Keystone eSymposia on Targeted Protein Degradation: From Small Molecules to Complex Organelles

2021 Quantitative Proteomics: Strategies & Tools to Probe Biology, Virtual

2020 MOMbrane Workshop – Wiermann-Tübingen, Virtual

2020 The Molecular Fabric of Life, Jerusalem, Israel

2020 Production & Function of EVs in Infectious Disease, Rehovot, Israel

2020 The 4th Zavalkoff Symposium, Rehovot, Israel

2020 GRC on Intrinsically Disordered Proteins Discussion Leader, Les Diablerets, Switzerland

2020 Protein Degradation Congress, San Diego, USA

2019 EMBO Workshop on the Ubiquitin System, Cavtat, Croatia

2019 EMBL conference-Proteomics in Cell Biology & Disease Mechanisms, Heidelberg, Germany

2019 Advancing Mass Spectrometry for Biophysics & Structural Biology, Amherst, USA

2019 Celebration of Native Mass Spectrometry, Oxford, UK

2019 X-ZOMES on the Broader Cellular Impact of PCI Complexes, Akko, Israel

2019 European Top-Down Proteomics Workshop, Paris, France

2018 8th Symposium on Structural Proteomics, Berlin, Germany

2018 Opening Symposium Charles Tanford Protein Center, Halle, Germany

2018 22nd International Mass Spectrometry Society Conference, Florence, Italy

2018 GRC on Intrinsically Disordered Proteins, Les Diablerets, Switzerland

2018 EMBO workshop on In Situ Methods in Cell Biology & Cellular Biophysics, Berlin, Germany

2018 Keynote speaker, 22nd International Mass Spectrometry Society Conference, Florence, Italy

2018 European Mass Spectrometry Conference, Saarbrücken, Germany

2018 Proteasome hub: Fine-Tuning of Proteolysis According to Cellular Needs, Munich, Germany

2018 Isolated Biomolecules Biomolecular Interactions, Texel, Netherlands

2018 IISER-WIS Conference on Chemical Biology, Pune, India

2017 Molecular Perspectives on Protein-Protein Interactions, Eilat, Israel

2017 31st Annual Symposium of the Protein Society, Montreal, Canada

2017 Native Mass Spectrometry – Instrumentation & Applications. Crete, Greece

2017 3rd International p53 isoform workshop, Bergen, Norway

2017 Zomes IX, Zome complexes & the ubiquitin-proteasome system, Rome, Italy

2017 8th ILANIT meeting, Eilat, Israel

2017 Israel Society for Mass Spectrometry joint with USA society, Rehovot, Israel

2016 21st International Mass Spectrometry Society Conference, Toronto, Canada

2016 7th Proteasomes & Autophagy Workshop, Clermont-Ferrand, France

2016 MPI-MoIPhy Mini-Symposium on Chemical and Molecular Biology, Rehovot, Israel

2016 Women in Structural Biology, Grenoble, France

2015 Receptor Dynamics - Winter School International Doctoral Programme, Rehovot, Israel

2015 5th Symposium on Structural Proteomics, Halle, Germany

2015 Swedish Mass Spectrometry Society Annual Meeting, Johannesbergs Castle, Sweden

2015 Native Mass Spectrometry Minisymposium, DESY campus, Hamburg, Germany

2015 International Symposium on Ubiquitin & Diseases, Zhangjiajie, China

2015 3rd Mass Spectrometry Workshop, Gdańsk, Poland

2015 Winter School on Receptor Dynamics & Paradigms for Novel Drugs, Rehovot, Israel
 2015 5th Symposium on Structural Proteomics, Halle, Germany
 2015 Posttranslational Modifications of Proteins Analysis & Functions, Haifa, Israel
 2015 Keystone symposium on The Human Proteome, Stockholm, Sweden
 2015 Isranalytica, 18th Annual Meeting of the Israel Analytical Chemistry Society, Tel-Aviv, Israel
 2014 4th Symposium on Structural Proteomics, Antwerp, Belgium
 2014 Zomes VIII, Biology of the Zomes, Xiamen, China
 2014 GRC on Intrinsically Disordered Proteins, Easton, MA, USA
 2014 ASMS meeting on Ion Activation, Clearwater Beach, FL, USA
 2014 The 79th annual meeting of the Israel Chemical Society, Tel-Aviv, Israel
 2014 7th ILANIT meeting, Eilat, Israel
 2013 GRC on Biological Molecules in the Gas Phase and in Solution, NH, USA
 2013 The Ubiquitin Family, Cold Spring Harbour Laboratory, NY, USA
 2013 DGMS Deutschen Gesellschaft für Massenspektrometrie, Berlin, Germany
 2013 Israeli Biophysical Society meeting, Jerusalem, Israel
 2013 Proteins from Birth to Death conference, Jerusalem, Israel
 2013 WIS-MBI Mechanobiology Conference, Dynamic Architecture of Cells & Tissues, Singapore
 2012 Zomes VI, Ubiquitin Family Proteins & Their Cognate PCI Complexes, Munich, Germany
 2012 Keystone Symposia on Proteomics, Interactomes, Stockholm, Sweden
 2012 MASSA 2012, the national symposium on Mass Spectrometry, Palermo, Italy
 2012 2nd Greek Orbitrap users meeting, Iraklio, Crete
 2012 Protein Degradation Pathways in Health & Diseases, San-Diego, USA
 2011 GRC on Biological Molecules in the Gas Phase and in Solution, USA (discussion leader)
 2011 Proteomics Symposia at Children's Hospital Boston, Boston, USA
 2011 International Proteomics Meeting, Athens, Greece
 2011 Keystone Symposia, AAA+ & Related ATP-Driven Protein Machines, Tahoe City, USA
 2011 6th ILANIT meeting, Eilat, Israel
 2010 ESF meeting, Molecular Perspectives on Protein-Protein Interactions, Sant Feliu, Spain
 2010 1st Middle Eastern & Mediterranean Sea Region Countries MS Workshop, Rehovot, Israel
 2010 Zomes VI, Expanding the PCI Family Beyond Proteasome, CSN and eIF3, Safed, Israel
 2010 French-Israeli ERC Recipients Interdisciplinary Symposium, Jerusalem, Israel
 2010 58th ASMS Conference on Mass Spectrometry, Salt Lake City, USA
 2009 18th International Mass Spectrometry Conference, Bremen, Germany
 2009 The 74th Israel Chemistry Society Annual Meeting, Tel-Aviv, Israel
 2009 Biological Chemistry Symposium, Beer-Sheva, Israel
 2009 The 22nd Meeting of the Israeli Society for Mass Spectrometry, Technion, Haifa, Israel
 2008 Zomes V, The COP9 Signalosome, Proteasome & eIF3, Yokohama, Japan
 2008 56th ASMS Conference on Mass Spectrometry, Colorado, USA
 2008 CFN-RBNI-WEIZMANN Symposium on Nanotechnology, Karlsruhe, Germany
 2008 4th Structural Analysis of Supramolecular Assemblies by Hybrid Methods, Lake Tahoe, USA
 2008 5th ILANIT meeting, Eilat, Israel
 2007 The 21st Meeting of the Israeli Society for Mass Spectrometry, Rehovot, Israel
 2005 Katzir Conference, Molecular Perspectives on Protein-Protein Interactions, Eilat, Israel
 2006 54th ASMS Conference on Mass Spectrometry, Seattle, USA.

INVITED SEMINARS

- 2021 Purdue University, Department of Chemistry, USA (Virtual)
- 2021 University of Leicester, Institute of Structural & Chemical Biology, UK (Virtual)
- 2021 Oregon State University, Biochemistry & Biophysics Department, USA (Virtual)
- 2021 Boston University, Department of Biochemistry, USA (Virtual)
- 2021 Chemistry Colloquia, Weizmann Institute, Israel
- 2020 Molecular Systems Biology seminar, ETH Zurich, Switzerland
- 2019 Interfaculty Institute of Biochemistry University of Tuebingen Seminar, Tuebingen, Germany
- 2019 Thermo Fisher Scientific seminar, San Jose, USA
- 2019 Department of Biological Chemistry, Hebrew University of Jerusalem, Jerusalem, Israel
- 2018 WhatsUp seminar Series, Waters Corporation, Wilmslow, UK
- 2018 Barcelona Biomed Plenary Seminars, IRB Barcelona, Spain
- 2017 School of Chemistry seminar, University of Manchester, UK
- 2016 Department of Medical Sciences, University of Toronto, Canada
- 2016 Department of Biotechnology Engineering, Beer-Sheva, Israel
- 2016 Waters Corporation seminar, Wilmslow, UK
- 2015 German Institute of Human Nutrition, Potsdam, Germany
- 2015 Molecular Biology & Genetics, Johns Hopkins University School of Medicine, USA
- 2014 Chemical & Molecular Biology & Structural Biology Seminar, Ohio State University, USA
- 2014 Department of Pharmacy, Università di Salerno, Italy
- 2014 Department of Structural Biology, Weizmann Instituted, Rehovot, Israel
- 2013 Physical & Theoretical Chemistry Laboratory, University of Oxford, UK
- 2013 MRC Laboratory of Molecular Biology, Cambridge, UK
- 2013 Division of Structural Biology, The Institute of Cancer Research, London, UK
- 2013 Department of Biological Chemistry, Hebrew University of Jerusalem, Jerusalem, Israel
- 2013 Department of Biochemistry & Molecular Biology, Hebrew University, Jerusalem, Israel
- 2012 Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA, USA
- 2012 Signal Transduction Program, Sanford-Burnham Medical Research Institute, La Jolla, USA
- 2012 Beckman Institute, California Institute of Technology, Pasadena, CA, USA
- 2011 GZMB colloquium of microbiology & Structure Biology, University of Göttingen, Germany
- 2011 The Israel Institute for Biological Research, Ness-Ziona, Israel
- 2011 Department of Biology, MIT, Boston, USA
- 2011 Barnett Institute of Chemical & Biological Analysis, Northeastern University, Boston, USA
- 2011 Department of Cell Biology, Harvard Medical School, Boston, USA
- 2011 Life Sciences Faculty & Nano-medicine Research Center, Bar-Ilan University, Israel
- 2011 Department of Molecular Microbiology & Biotechnology, Tel-Aviv University, Israel
- 2009 Structural Bioinformatics group, Tel-Aviv University, Tel-Aviv, Israel
- 2009 Institute Jacques Monod, Université Paris Diderot-Paris 7, Paris, France
- 2009 Biologie Cellulaire et Infection, Institute Pasteur, Paris, France
- 2009 Department of Life Sciences & the NIBN, University of Ben-Gurion in the Negev, Israel
- 2009 Department of Biological Chemistry, Hebrew University, Jerusalem, Israel
- 2008 Institute of Chemistry, Hebrew University, Jerusalem, Israel
- 2008 Department of Plant Sciences, Weizmann Institute, Rehovot, Israel

2006 NIH Proteomics interest group

SELECTED COMPETITIVE FELLOWSHIPS AND AWARDS TO PAST AND CURRENT LAB MEMBERS

2020 Clore Scholar fellowship, to Shay Vimer
2019 ZOMES X meeting, Best Poster Award to Dr. Maya Olshina
2018 The Sir Charles Clore Postdoctoral Fellowship to Dr. Dana Yaffe
2018 The Koshland postdoctoral fellowship to Dr. Maya Olshina
2016 Dean of Faculty Fellowship to Dr. Jelena Cveticanin
2016 Molecular Basis of Disease meeting Best Poster Award to Fanindra Kumar-Deshmukh
2016 Israel Cancer Research Foundation Fellowship to Dr. Maya Olshina
2015 Dean of Faculty Fellowship to Dr. Maya Olshina
2013 Humboldt Foundation & Minerva postdoctoral fellowship to Dr. Oren Moscovitz
2013 Dean of Faculty Fellowship to Dr. Ann-Kathrin Stark
2013 The Yong Investigator award of the MS Society to Dr. Oren Moscovitz

G. PATENTS AND INVOLVEMENT WITH COMPANIES

1. US Patent Publication No. 20200362018 - INHIBITORS OF THE 20S PROTEASOME
2. US patent Publication No. 20200297796 - COP9 SIGNALOSOME (CSN) COMPLEX MODULATORS AND USES THEREOF