**CURRICULUM VITAE**

Full name: Mario Vazdar

Position: senior research associate

Date and place of birth: 24th June 1979, Zagreb, Croatia

E-mail: mario.vazdar@irb.hr

***Education***

2008 PhD, Faculty of Science, University of Zagreb

2002 B.Sc. Faculty of Chemical Engineering and Technology, University of Zagreb

***Employment***

2017- senior research associate, group leader, Laboratory for Chemistry in Model Biological Systems, Division of Organic Chemistry and Biochemistry, Rudjer Bošković Institute, Zagreb, Croatia

***Previous employment***

2010-2017 research associate, Laboratory for Physical Organic Chemistry, Division of Organic Chemistry and Biochemistry, Rudjer Bošković Institute, Zagreb, Croatia

2013-2018 visiting scientist, Tampere University of Technology, Tampere, Finland

2010-2012 postdoctoral researcher, Institute of Organic Chemistry and Biochemistry, Prague, Czechia

2008-2010 senior research assistant, Rudjer Bošković Institute, Zagreb, Croatia

2004-2008 research assistant, Rudjer Bošković Institute, Zagreb, Croatia

2003-2004 junior research assistant, Faculty of Food Technology and Biotechnology, Zagreb, Croatia

***Publications***

**47** research articles, two book chapters, (H-index **16**, **922** citations - Scopus).

***Projects – principal investigator***

2016-2020 Doctoral programme – PhD student Sanja Škulj, mag. appl. chem, Croatian Science Foundation

2015-2018 "Molecular Aspects of Oxidative Processes in Cells", Installation Grant, Croatian Science Foundation

2013-2014 "Behavior of short reactive aldehydes in model phospholipid bilayers", Croatian Academy of Science and Arts

2010-2012 "Molecular Dynamics Simulations of Biomolecules in Ionic Solutions", postdoctoral grant, Institute of Organic Chemistry and Biochemistry, Prague, Czechia

***Projects – associate***

2013-2018 "Translocation of Molecules across Cell Membranes and its Consequences in Biomolecular Trafficking, Drug Delivery and Cell Death" FiDiPro Project; principal investigators: Prof. Pavel Jungwirth and Prof. Ilpo Vattulainen

2007-2014 "Organic and Bioorganic Processes in Ground and Excited states ", Ministry of Science, Technology and Sports, principal investigator: Dr. Mirjana Eckert-Maksić

2002-2005 "Reactive Intermediates in Ground and Excited States", Ministry of Science, Technology and Sports, principal investigator: Dr. Mirjana Eckert-Maksić

2008-2009 "Simulation of Photodynamics of Bioorganic Processes", bilateral project with Austria, principal investigators: Dr. Mirjana Eckert-Maksić and Prof. Hans Lischka

2006-2007 "Photoinduced Proton Transfer in Biologically Active Molecules", bilateral project with Austria, principal investigators: Dr. Mirjana Eckert-Maksić and Prof. Hans Lischka

2004-2005 "Modelling of Organic and Bioorganic Processes and Compounds in Ground and Excited States", bilateral project with Austria, principal investigators: Dr. Mirjana Eckert-Maksić and Prof. Hans Lischka

***Invited lectures in the last 5 years***

1. "Molecular Simulations of Model Biological Systems", 7th Visegrad Symposium on Structural Systems Biology, Nove Hrady, Czechia, 22.06.2017.

2. " Molecular Dynamics Simulations In Biologically Relevant Systems, Math Chem Comp, Dubrovnik, Croatia, 22.06.2016.

3. "Molecular Dynamics Simulations of Reactive Aldehydes in Model Biological Membranes", University of Veterinary Medicine, Vienna, Austria, 09. 02. 2016.

4. "Molecular Dynamics Simulations of Lipid Bilayers in Conditions of Oxidative Stress", University of Veterinary Medicine, Vienna, Austria, 26. 02. 2015.

5. "Interaction of Arginine-Rich Peptides in Water and at Biological Membranes", 4th Visegrad Symposium on Structural System Biology, Nove Hrady, Czechia, 19. 06. 2014.

6. "Molecular dynamics simulations – The application in biologically relevant processes", University of Veterinary Medicine, Vienna, Austria, 03. 07. 2013.

***Collaboration***

2010- Prof. Pavel Jungwirth, Institute of Organic Chemistry and Biochemistry, Prague, Czechia

2013- Prof. Elena Pohl, University of Veterinary Medicine, Vienna, Austria

2010- Prof. Martin Hof, J. Heyrovsky Institute of Physical Chemistry, Prague, Czechia

2012- Prof. Mikael Lund, University of Lund, Lund, Sweden

2014- Prof. Paul. S. Cremer, The Pennsylvania State University, Pennsylvania, USA

2016- Prof. Jean-Philippe Pellois, Texas A&M University, Austin, Texas, USA

2013- Dr. Ivan Gladich, Hamad Bin Khalifa University, Doha, Qatar

2013- Prof. Ilpo Vattulainen, Tampere University of Technology, Tampere, Finland

2014- Dr. Robert Vácha, Masaryk University, Brno, Czechia

2012- Dr. Josef Lazar, Institute of Organic Chemistry and Biochemistry, Prague, Czechia

2012- Dr. Lukasz Cwiklik, J. Heyrovsky Institute of Physical Chemistry, Prague, Czechia

***Awards***

2014 invited editor of special issue of Croatica Chemica Acta with Dr. Davor Margetić dedicated to Dr. Mirjana Eckert-Maksić

2012 Director’s award, Rudjer Bošković Institute, Zagreb, Croatia

2010-2012 two year postdoctoral grant, Institute of Organic Chemistry and Biochemistry, Prague, Czechia

2012 Travel Grant, EuroMembranes

2011 best poster prize, "XIX. International Conference on Horizons in Hydrogen Bond Research", Göttingen, Germany

2008 STSM (Short Training Scientific Mission Grant) COST D37 action, Jülich Research Centre, Germany

2001 Rector’s award, University of Zagreb, Croatia

1999-2002 scholarship, Faculty of Chemical Engineering and Technology, Zagreb, Croatia

***Organizacija znanstvenih skupova***

2019 26th Croatian Meeting of Chemists and Chemical Engineers, co-chair, Organization Board, Zagreb, Croatia

2015 24th Croatian Meeting of Chemists and Chemical Engineers, Organization Board, Zagreb, Croatia

***Editorship and membership***

2017- secretary, Croatian Chemical Society

2015- associate editor, Croatica Chemica Acta

2014 invited editor, Croatica Chemica Acta

2013-2017 treasurer, Croatian Chemical Society

2003- Croatian Chemical Society, member

2003- Croatian Society of Chemical Engoneers, member

***Teaching***

2014-2015 Divison of Biotechnology, University of Rijeka, Croatia, assistant

2003-2004 Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia, assistant

***Other***

2008- *ad hoc* reviewer for Journal of the Americal Chemical Society, Journal of Physical Chemistry, Langmuir, Scientific Reports, Physical Chemistry Chemical Physics, Journal of Chemical Physics, Chemical Physics Letters, Spectrochimica Acta, Journal of Computational Chemistry, Journal of Molecular Modeling, Chemistry Letters, Journal of Molecular Structure, Journal of the Taiwan Institute of Chemical Engineers, Chemistry Letters, reviewer for several national science foundations