Visnja Stepanic

Senior Researcher • Computational & Medicinal Chemistry • AI/ML in Chemical Sciences

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PROFILE

Computational and medicinal chemist with experience spanning academic and pharmaceutical R&D. Expertise includes discovery, design and development of biologically active compounds; natural products and phytocompounds; chemoinformatics and bioinformatics; machine learning and large chemical datasets; molecular modelling; ADME/toxicology; biochemistry, physical and analytical chemistry; nutraceuticals and functional food. Experienced in research leadership, evaluation and peer review.

CORE EXPERTISE

Medicinal chemistry • Chemoinformatics • Bioinformatics • Machine learning • Molecular modelling • Natural products • ADME & toxicology • Drug discovery • Data-driven chemistry

EDUCATION

2001 Ph. D., Faculty of Science University of Zagreb, Field of theoretical and computational chemistry,

1997 M. Sc., Faculty of Science, University of Zagreb, , Field of theoretical and computational chemistry

1993 B. Sc., Department of Physical Chemistry, Faculty of Science, University of Zagreb

1988 High school, School for pharmaceutical technicians, Zagreb

PROFESSIONAL EXPERIENCE

2019- present Ruđer Bošković Institute, Division of computing and data science, Senior Researcher

2009-2019 Ruđer Bošković Institute, Division of molecular medicine, Expert advisor

2006– 2008 GlaxoSmithKline Research Centre Zagreb Ltd., Principal Scientist

2002 – 2006 R & D, PLIVA Int., Researcher

1998 – 2002 Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry, Research Assistant, Ph.D. Student

1994 – 1998 Ruđer Bošković Institute, Division of Physical Chemistry, Research Assistant, M.Sc. student

RESEARCH PROJECTS & PROGRAMMES

EU Projects

2024-2026 Enhancing capacities for technology transfer, company building and innovations in the field of ICT CapTTict (https://interreg-danube.eu/projects/capttict, www.irb.hr/capttict), Interreg Danube Region Project, RBI leader, communication manager

2017-2022 The Scientific Centre of Excellence for Marine Bioprospecting –BioProCro, (Competitiveness and Cohesion Operational Program, European Regional Development Fund KK.01.1.1.01), collaborator

2021 The AI4EU (The European AI on Demand Platform) Solutions Open Call 2021 for the challenge Modelling of drugs via deep learning neural network; collaborator

2022-2026 Member of WG3 of COST Action CA21134 - Towards zer0 Pesticide AGRIculture : European Network for sustainability (T0P-AGRI-Network)

2017-2021 MC Substitute at COST Action CA16205 European Network on Understanding Gastrointestinal Absorption-related Processes

2012-2016 MC member of COST Action BM1203 EU-ROS

2012-2016 MC member of COST Action CM1106 Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells

Croatian science foundation - leader

2025-2028 Levering AI for discovery of green insect chemocommunication disruptors for sustainable crop protection

Croatian science foundation - collaborator

2023–2027 Analyses of interactions between organophosphorus compounds and esterases and other targets for therapy in poisoning

2018-2023 Enzymatic Synthesis of Fluorinated Chiral Building Blocks EnzyFluor (IP-2018-01-4493)

2014-2018 Synthesis and cytostatic evaluations of novel nitrogen heterocycles library (5596)

Ministry of Science and Education, Croatia

2017-2022 The Scientific Centre of Excellence for Marine Bioprospecting –BioProCro (Competitiveness and Cohesion Operational Program, European Regional Development Fund KK.01.1.1.01)

2009–2014 Epigenetic and immunomodulatory changes in malignant head and neck tumors (098–0982464–2511)

2012–2014 Developing methods for modeling properties of bioactive molecules and proteins (098-1770495-2919)

1998–2001 Isotopical labeling and molecular spectroscopies (00980802)

1998 Theoretical study of protonated diimide cations (Young investigator project, leader)

1996–1998 Study of static and dynamical properties of molecules

1991–1995 Development and application of models in chemistry

non-academic institutes Pliva d.o.o. and GlaxoSmithKline Research Centre Zagreb Ltd

2007- 2008 Macrolides with anti-inflammatory activity, GSK Research Centre Zagreb Ltd.

2006 – 2008 Pharmacokinetic behaviour of macrolides, GSK Research Centre Zagreb Ltd.

2006 – 2008 Platform for generating macrolide hit molecules , GSK Research Centre Zagreb Ltd.

2006 – 2008 Novel macrolide antibiotics, Research institute of Pliva d.o.o./ GSK Research Centre Zagreb Ltd.

2004 – 2005 New program generating platform , Research institute of Pliva d.o.o.

2002 – 2003 Novel antibiotics targets , R&D PLIVA Int.

Additionally, participation in realization of the following projects of Ministry of Science Education and Sports of the Republic of Croatia in period 2011 - 2014:

Investigation of relationships between structure and biological activity of polyphenols, CRO-SRB project (2011-)

IGF2 and downstream signaling consequences in human lung cancers (335-0000000-3532)

Epidemiological features of systemic lupus erythematodes in Croatia (108-1081874-2419).

AWARDS & RECOGNITION

2024 - Recognition of Croatian Association for Cancer Research (HDIR) for contribution to HDIR through organization of practical workshops

2022 - Recognition to the EnzyFluor project team (HrZZ IP-2018-01-4493) for the most demanding calculation using the Isabella cluster in 2021

2008 GlaxoSmithKline Exceptional Science Award (individual)

(for application of physicochemical properties on chemical class of macrolides and their global popularization in GSK)

2008 GlaxoSmithKline Recognition/Bronze Award

(for contribution to understanding of pharmacokinetic behaviour of macrolides)

2008 GlaxoSmithKline Recognition/Bronze Award

(for participation in organization of in-house meeting of computational chemists (Europa) in UK)

BOOK EDITING

Book of abstracts: 1st Croatian Summer School on Medicinal Chemistry : / Stepanić V, Malatesti N, Gabelica Marković V et al. (ur.). Zagreb: Croatian Chemical Society, 2025

Book of abstracts: 10th Regional Biophysics Conference & 15th International Summer School of Biophysics / Dolanski Babić S, Dutour Sikirić M, Stepanić V et al. (ur.). Split: Hrvatsko Biofizičko Društvo, 2024

Stepanić V, Kučerová-Chlupáčová M. Redox Active Molecules in Cancer Treatments,I SBN 978-3-0365-6731-0 (hardback); ISBN 978-3-0365-6730-3 (PDF), https://doi.org/10.3390/books978-3-0365-6730-3

Saso L, Gurer-Orhan H, Stepanić V. Modulators of Oxidative Stress: Chemical and Pharmacological Aspects, ISBN 978-3-03943-228-8 (Hbk); ISBN 978-3-03943-229-5 (PDF) https://doi.org/10.3390/books978-3-03943-229-5

Book of Abstracts, 10th Joint Meeting on Medicinal Chemistry 2017 / Basarić N, Namjesnik D, Perković I, Stepanić V (Eds). Zagreb : Croatian Chemical Society, 2017

GUEST EDITORSHIPS

Stepanić V, Kučerová-Chlupáčová M. Special Issue "Redox Active Molecules in Cancer Treatments" (2021), of Molecules (ISSN 1420-3049) belonging to the section "Medicinal Chemistry". https://www.mdpi.com/journal/molecules/special_issues/Redox_Active_Cancer

Saso L, Gurer-Orhan H, Stepanić V. Special Issue “Modulators of Oxidative Stress: Chemical and Pharmacological Aspects” (2020), of Antioxidants (ISSN 2076-3921) belonging to the section "Health Outcomes of Antioxidants and Oxidative Stress". https://www.mdpi.com/journal/antioxidants/special_issues/modulators_oxidative_stress

BOOK & PROCEEDINGS CHAPTERS

Pehar V, Oršolić D, Stepanić V.* Drug-likeness, herbicide-likeness and toxicity of herbicidal compounds – in silico analysis. Proceedings: 17th Ružička Days Today Science – Tomorrow Industry, Tomas S, Ačkar Đ. (Eds.). Osijek : Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology Osijek and Croatian Society of Chemical Engineers (CSCE), 2019. 112-123. ISSN: 2459-9387

Parnham JM, Stepanić V, Tafferner N, Panek M, Verbanac D. Mild plant and dietary immunomodulators // Principles of Immunopharmacology / Parnham J. Michael ; Nijkamp P. Frans (Eds.). Basel: Birkhäuser Basel, 2018. str. 1-68.

Stepanić V, Novak Kujundžić R, Gall Trošelj K. Epigenome, Cancer Prevention and Flavonoids and Curcumin // Epigenetics and Epigenomics / Christopher J. Payne (Ed.). Rijeka: InTech, 2014. Pp. 173-209.

Verbanac D, Perić M, Čipčić-Paljetak H; Matijašić M, Stepanić V. Biologically active ingredients from food with anti-obesity properties // Obesity: Public Health Problem and Medical Challenge / Rukavina, Daniel (Ed). Rijeka : Hrvatska Akademija Znanosti i Umjetnosti, 2014. pp. 133-150. ISBN 978-953-154-282-1

Verbanac D, Stepanić V*, Lučić B, Amić D, "The Must" of the Drug Discovery and Development is – Interdisciplinarity, / Bioinformatics and biological physics : proceedings of the scientific meeting / Paar, Vladimir (ur.). Zagreb, Hrvatska, 21.11.2012. : Croatian Academy of Sciences and Arts, 2013. pp. 179-189. ISBN 978-953-154-199-2

SELECTED PEER-REVIEWED PUBLICATIONS

Buljan A, Renić M, Čikoš A, Stepanić V, Begić Biškup K, Paradžik M, Roje M. Halogenated quinolinone–aziridines: Substituent-controlled diastereodivergent synthesis and geometry-dependent antiproliferative activity. Eur J Med Chem. 2026;319:119212. doi:10.1016/j.ejmech.2026.119212.

Kolman RJ, Milcic N, Lescic Asler I, Stefanic Z, Svaco P, Stepanic V, Brkljaca Z, Dokli I, Findrik Blazevic Z, Majeric-Elenkov M, Biocatalytic synthesis of fluorine-containing chiral azido compounds in a two-phase system. Tetrahedron Lett. 178 (2026) 155982. doi: 10.1016/j.tetlet.2026.155982

Jednačak T, Stepanić V, * Habinovec I, Mikulandra I, Smokrović K, Čipčić Paljetak H, Bukvić M, Parlov Vuković J, Grgičević I, Divjak L, Zangger K, Novak P. Anti-infective macrozones: design, biological evaluation and structure-activity relationships. ADMET and DMPK, 14 (2026) 3139. doi: 10.5599/admet.3139

Stepanić V,* Hršak D, Kobetić R. The State of the Art on Chemical Databases and Libraries // Croat. Chem. Acta, 97 (2024), 4; P1-P12. doi: 10.5562/cca4130

Jurin M, Čikoš A, Stepanić V, Górecki M, Pescitelli G, Kontrec D, Jakas A, Dražić T, Roje M. Synthesis, Absolute Configuration, Biological Profile and Antiproliferative Activity of New 3,5-Disubstituted Hydantoins. Pharmaceuticals. 2024; 17(10):1259. https://doi.org/10.3390/ph17101259

Buljan A, Stepanić V, Čikoš A, Babić Brčić S, Bojanić K, Roje M. Total Synthesis and Biological Profiling of Putative (±)-Marinoaziridine B and (±)-N-Methyl Marinoaziridine A. Marine Drugs. 2024; 22(7):310. doi: 10.3390/md22070310

Jurin M, Stepanić V, Bojanić K, Vadlja D, Kontrec D, Dražić T, Roje M, Novel (±)-trans-β-lactam ureas: Synthesis, in silico and in vitro biological profiling, Acta pharmaceutica, 2024, 74 (1), 37-59. doi: 10.2478/acph-2024-0008

Pehar V, Kolić D, Zandona A, Šinko G, Katalinić M, Stepanić V*, Kovarik Z*. Selected herbicides screened for toxicity and analysed as inhibitors of both cholinesterases. Chem Biol Interact. 2023;379:110506. doi: 10.1016/j.cbi.2023.110506

Stepanić V*, Kučerová-Chlupáčová M, * Review and Chemoinformatic Analysis of Ferroptosis Modulators with a Focus on Natural Plant Products. Molecules, 2023, 28 (2), 475-505. doi:10.3390/molecules28020475

Dokli I, Brkljača Z, Švaco P, Tang L, Stepanić V,* Majerić Elenkov M.* Biocatalytic approach to chiral fluoroaromatic scaffolds, Org. Biomol. Chem., 2022,20, 9734-9741. https://doi.org/10.1039/D2OB01955H

Milčić N, Stepanić V, Crnolatac I, Findrik Blažević Z, Brkljača Z, Majerić Elenkov M. Inhibitory Effect of DMSO on Halohydrin Dehalogenase: Experimental and Computational Insights into the Influence of an Organic Co-solvent on the Structural and Catalytic Properties of a Biocatalyst. Chemistry- A European Journal. 2022;28(56):e202201923. doi: 10.1002/chem.202201923, with front cover doi.org/10.1002/chem.202202869

Antonijević MR, Simijonović DM, Avdović EH, Ćirić A, Petrović ZD, Marković JD, Stepanić V, Marković ZS. Green One-Pot Synthesis of Coumarin-Hydroxybenzohydrazide Hybrids and Their Antioxidant Potency. Antioxidants 2021; 10(7):1106. https://doi.org/10.3390/antiox10071106

Oršolić D, Pehar V, Šmuc T, Stepanić V,* Comprehensive machine learning based study of the chemical space of herbicides, Scientific reports 11 (1), 1-12, doi: https://doi.org/10.1038/s41598-021-90690-w

Cichońska A, Ravikumar B, Allaway RJ, Wan F, Park S, Isayev O, Li S, Mason M, Lamb A, Tanoli Z, Jeon M, Kim S, Popova M, Capuzzi S, Zeng J, Dang K, Koytiger G, Kang J, Wells CI, Willson TM; IDG-DREAM Drug-Kinase Binding Prediction Challenge Consortium (Oršolić D, Lučić B, Stepanić V, Šmuc T), Oprea TI, Schlessinger A, Drewry DH, Stolovitzky G, Wennerberg K, Guinney J, Aittokallio T. Crowdsourced mapping of unexplored target space of kinase inhibitors. Nat Commun. 2021;12(1):3307. doi: 10.1038/s41467-021-23165-1.

Tascioglu Aliyev A, Panieri E, Stepanić V, Gurer-Orhan H, Saso L, Involvement of NRF2 in Breast Cancer and Possible Therapeutical Role of Polyphenols and Melatonin. Molecules 2021, 26, 1853. https://doi.org/10.3390/molecules26071853

Gelemanović A, Vidović T, Stepanić V, Trajković K, Identification of 37 Heterogeneous Drug Candidates for Treatment of COVID-19 via a Rational Transcriptomics-Based Drug Repurposing Approach, Pharmaceuticals 2021;14:87. doi: doi.org/10.3390/ph14020087

Amić A, Marković Z, Dimitrić Marković JM, Milenković D, Stepanić V. Antioxidative potential of ferulic acid phenoxyl radical. Phytochemistry. 2020; 170: 112218. doi:10.1016/j.phytochem.2019.112218

Macan Meščić A, Harej A, Cazin I, Klobučar M, Stepanić V, Pavelić K, Pavelić Kraljević S, Schols D, Snoeck R, Andrei G, Raić-Malić S. Antitumor and antiviral activities of 4-substituted 1,2,3-triazolyl-2,3-dibenzyl-L-ascorbic acid derivatives. Eur. J. Med. Chem. 2019;184:111739. doi:10.1016/j.ejmech.2019.111739

Harej A, Macan Meščić A, Stepanić V, Klobučar M, Pavelić K, Pavelić Kraljević S, Raić-Malić S. The Antioxidant and Antiproliferative Activities of 1,2,3-Triazolyl-L-Ascorbic Acid Derivatives. Int. J. Mol. Sci. 20(19) (2019) 4735. doi:10.3390/ijms20194735

Stepanić V,* Matijašić M, Horvat T, Verbanac D, Kučerová-Chlupáčová M, Saso L, Žarković N.* Antioxidant Activities of Alkyl Substituted Pyrazine Derivatives of Chalcones—In Vitro and In Silico Study. Antioxidants. 8(4) (2019) E90. doi: 10.3390/antiox8040090

Kujundžić Novak R, Stepanić V, Milković L, Čipak Gašparović A, Tomljanović M, Gall Trošelj K. Curcumin and its potential for systemic targeting of inflamm-aging and metabolic reprogramming in cancer. Int J Mol Sci. 20(5) (2019) E1180. doi: 10.3390/ijms20051180

Stepanić V,* Matić S, Amić A, Lučić B, Milenković D, Marković Z. Effects of conjugation metabolism on radical scavenging and transport properties of quercetin – In silico study, J. Mol. Graph. Model. 86 (2019) 278-285. doi: 10.1016/j.jmgm.2018.10.023

SELECTED INVITED LECTURES

Stepanić V, Harnessing digital technologies to explore nature's molecules for targeted human use, 2nd European Biomedical and Veterinary Engineering Congress - BIOMEDVETMECH, Zagreb, Croatia, October 2024

Stepanić V, Data driven drug discovery – impact of chemical libraries and AI // 7. Croatian Congress of Pharmacy with international participation, Dubrovnik, Croatia, May 2024.

Stepanić V, Use of Chemoinformatics in Toxicology, International Symposium on Environmental and Molecular Toxicology of Chemicals, Zagreb, December 2023, Zagreb.

Stepanić V, Brkljača Z, Majerić Elenkov M, Computational Insights into the Biocatalytic Activity of C-Type Halohydrin Dehalogenase HheC, Computational Chemistry Day, September 2023, Zagreb.

Stepanić V, Brkljača Z, Milčić N, Crnolatac I, Findrik Blažević Z, Majerić Elenkov M, Elucidation of DMSO effects on catalytic activity of halohydrin dehalogenase HheC by molecular dynamics, Regional Biophysics Conference, Hungarian Biophysical Society, Pécs, Hungary, August 2022.

Stepanić V, Technology driven drug discovery, 1st European Congress of Biomedical and Veterinary Engineering - BIOMEDVETMECH, Zagreb, Croatia, October 2022

Stepanić V, Oršolić D, Šmuc T, Machine learning in chemical compound space, Mini symposium of Croatia Chemical Society, Rijeka, Croatia, July 2022.

Stepanić V, Machine Learning in Chemistry, XIV Meeting of Young Chemical Engineers, Zagreb, 2022.

Stepanić V, (Re)purposing starts virtually by predictive machine-learning models, 27th Croatian Meeting of Chemists and Chemical Engineers, Veli Lošinj, Croatia, October 2021.

Stepanić V, Development of phytotoxic natural molecules as complementary herbicidal agents is supported by machine learning study, 1st international conference "Food & Climate Change", October 2021.

Stepanić V, By polyphenols against cancer?, Symposium "The First 10 Years of HDIR", Croatian Society for Cancer Research, Ruđer Bošković Institute, June 4, 2019,.

Stepanić V, Malignant Tumors in medicinal chemistry, Regular seminar of Division of Organic Chemistry and Biochemistry, Ruđer Bošković Institute, Zagreb, April 2019.

Stepanić V, Physicochemical properties and ADME profile of molecules – in vitro and in silico approaches, Annual meeting of Croatian Biophysical Society, Zagreb, February 2019.

EDITORIAL ACTIVITY

2025 – ADMET & DMPK Q1 rank, Section for medicinal chemistry Editor

TEACHING

2025 a lecture "Hands-On Session: Predicting ADMET and Physicochemical Properties Using Online Resources", First Croatian Summer School on Medicinal Chemistry (CSSMC), Rijeka, 2025

2022-today participation in course " Translation medicine – from lab to bedside" (prof. Donatella Verbanac) of graduate study on Faculty of Pharmacy and Biochemistry, University of Zagreb

2016- 2024 participation in course "Design of novel drugs" of graduate study on Faculty of Pharmacy and Biochemistry, University of Zagreb.

2011–2018 participation in course "Biologically active compounds in food", of graduate study Medical studies in Croatian on School of medicine, University of Zagreb

2013 – 2018 participation in course "P4 in medicine: Predictive, preventive, personalized and participatory medicine ", of graduate study Medical studies in Croatian on School of medicine, University of Zagreb

2012-2014 participation in course "IME6852Z Instrumental methods", of Specialist study of environmental health engineering on University of applied health studies, Zagreb

1998–2001 participation in courses "Molecular spectroscopy" and "Chemical kinetics" of graduate study on Faculty of natural sciences, University of Zagreb

SUPERVISION

Tišma Patrik, In silico analysis of olfaction-related proteins in the invasive species Halyomorpha halys/ Stepanić, Višnja (supervisor). Zagreb, Faculty of Science, University of Zagreb, 2025. urn:nbn:hr:217:376775

Demeter Dea, In silico analysis of structural, physicochemical and ADMET properties of BODIPY compounds with synthesis of selected derivatives / Stepanić, Višnja (supervisor); Basarić, Nikola (indirect leader), Faculty of Science, University of Zagreb, 2025. urn:nbn:hr:217:460365

Dilber Ivana, The use of the AI tool AlphaFold 2 for protein structure modeling, Master's thesis, Stepanić Višnja, Nela Malatesti (Supervisors), Department of Biotechnology, University of Rijeka, 2023.

Pehar Vesna, Toxicity of selected herbicides analysed by in silico methods and by bioassays, Doctoral Thesis, Kovarik Zrinka, Stepanić, Višnja (Supervisors), Faculty of sciences, University of Zagreb, 2023.

Jagar Fran, Study of interactions between Olive compounds and tyrosine kinase HGFR/c-Met using molecular docking, Master's thesis, Stepanić Višnja, Barbarić Monika (Supervisors), Faculty of Pharmacy and Biochemistry, University of Zagreb, 2023.

WORKSHOPS & SCHOOLS

2025 - a chair / a president of organizing committee of First Croatian Summer School on Medicinal Chemistry (CSSMC), Rijeka, 14-17/09/2025.

2014 – present an organizer and lecturer of the workshop for the researchers and students from academic and non-academic environments, "Introduction into Molecular Modelling" together with Croatian association for cancer research (HDIR)

2023 - an organizer and lecturer of the workshop for the researchers and students " How to design and apply a proof-of-concept (PoC) proposal?" together with Croatian association for cancer research (HDIR), 25/5/2023

2023 - an organizer and lecturer of the workshop for the researchers and students " Why take the path of innovation and commercialisation?" together with Croatian association for cancer research (HDIR), 27/3/2023

CONFERENCE & MEETING ORGANISATION

A president of organizing committee of Computational Chemistry Day 2026, Ruđer Bošković Institute, Zagreb, 2026.

Member of organizing committee of annual Mini symposium of Section of medicinal and pharmaceutical chemistry of Croatian Chemical Society

Member of organizing committee of annual meeting Computational Chemistry Day (CCD) of Section of theoretical and computation chemistry of Croatian Chemical Society

Member of the International Scientific Committee and the Organizing Team for the Regional Biophysics Conference RBC2024, Split, 2024

Member of International Scientific Committee. The 12th Joint Meeting of Medicinal Chemistry (on-line), Bratislava, Slovakia, 2022.

Member of International organizing committee. The 11th Joint Meeting of Medicinal Chemistry, Prague, Czech Republic, 2019.

Member of International scientific committee and Local organizing committee. The 10th Joint Meeting of Medicinal Chemistry, Dubrovnik, Croatia, June 25-28, 2017.

Member of a national organizing committee. HDIR-4: "From Bench to Clinic". Fourth Meeting of the Croatian Association for Cancer Research with International Participation. November 3-4, 2016, Zagreb.

Member of an organizing team. GSK meeting of computational chemists Europe, Stevenage, UK, 2008.

Member of an organizing team. The second conference of PMI project leaders (PMI, Zagreb), Hotel Sheraton Zagreb 11-12 December 2008.

SCIENCE COMMUNICATION & OUTREACH

2025 – Participation in Purple in Chemistry (Ljubičasto u kemiji), a lecture series organized by the Student Section of the Croatian Chemical Society, with the lecture entitled "Chemical Communication – The Invisible and Silent Language of Life".

2025 - Participation on the Science Festival with the topic Networks, as a lecturer, with the lecture "Chemical communication – invisible web of life"

2019- Participation on the Open Day of IRB ODI2019, as a lecturer, with the lecture "The Bright and the Dark Side of Drugs".

2018-2019 – a supervisor at the BASF Chemgeneration – Reaching Zero experimentation workshop at the Ruđer Bošković Institute

2017-2019 – an educator at the ESF project "Affirmative and innovative approaches for education of talented primary school pupils and development of interdisciplinary multiannual program for the talents in STEM fields Ja raSTEM! " (Beneficiary: Primary school Lauder-Hugo Kon). My workshop enters the Croatian elementary school Curriculum.

2016 -2019 – a mentor of the workshop "Discovering medicines with the aid of computers" with Marko Tomin, BSc, and prof. Sanja Tomić, provided to the project Exploring Worlds of Science and Innovation' organized by the foundation Wissen am Werk (ZZND) and the Rudjer Boskovic Institute

2013- Participation in Open Days of IRB 2013, as a guide coordinator.

PROFESSIONAL MEMBERSHIPS

Croatian chemical society (Council member and Deputy Head of the Section of Medicinal and Pharmaceutical Chemistry)

Croatian biophysical society (a member of the Steering board)

Croatian association for cancer research and EACR