

PERSONAL INFORMATION

Ph.D. Dijana Pavlović Saftić, mag. ing. biotech.

- Pijenička 54, 10000 Zagreb, Croatia
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Sex F | Date of birth 13/03/1984 | Nationality Croatian

SUMMARY

- Ph.D. in Chemistry, subdiscipline Organic chemistry
- Master in Food Science and Biotechnology (Mag. ing. biotech.), subdiscipline Biochemical
 engineering (biotechnological processes in the pharmaceutical and food industry) as well as rich
 practical work experience
- secondary vocational education (field: Pharmacy technician)
- more than 15 years of experience in scientific work at research institutes (Croatia, Poland); 1.5 years of experience working abroad in an international environment
- experience of working in an industrial environment (field: Dairy industry)
- experience of working in a pharmacy
- strong "hands-on" experience in design, synthesis, and in vitro biological screening of potential biologically active compounds (antitumor, antibacterial and antiviral research, and drug development) as well as in spectroscopic studies of small organic molecules in solution (practical experience in instrumental methods of chemical analysis)
- 25 scientific publications, 2 professional publications, several in preparation, active participation
 in national and international scientific projects and conferences (experience in setting up
 research projects, building collaborations with external scientific partners)
- experience as a teaching assistant and mentor of a student's praxis
- active service to the scientific community (promotion and popularization of science)
- fluent in Croatian and English; knowledge of German
- enthusiastic, motivated, and diligent; excellent experimental, analytical and organizational skills; good communication skills and team spirit with great working experience in research teams to solve problems and achieve end results

WORK EXPERIENCE

07/2019 -

Research Associate

Ruđer Bošković Institute, Zagreb, CROATIA

Division of Organic Chemistry and Biochemistry Laboratory for Biomolecular Interactions and Spectroscopy

Research Associate with the main focus on:

Working on the project entitled "Višekromoforne probe za prepoznavanje pojedinih struktura DNA, RNA i proteina" (BioMultiChromoProbes)



02/2019 - 05/2019

Senior Research Assistant – Postdoc Postdoctoral scientific specialization in Croatia Ruđer Bošković Institute, Zagreb, CROATIA

Division of Physical Chemistry Laboratory for Green Synthesis

Senior research scientist with the main focus on:

Working on the project entitled "Mehanokemijska reaktivnost pod kontroliranim uvjetima temperature i atmosfere za čistu sintezu funkcionalnih materijala (MECHANOCONTROL)"

05/2018 - 09/2018

Senior Research Assistant – Postdoc Postdoctoral scientific specialization in Croatia Ruđer Bošković Institute, Zagreb, CROATIA

Division of Organic Chemistry and Biochemistry Laboratory for Biomolecular Interactions and Spectroscopy

Senior research scientist with the main focus on:

The continuation of the project "Multifunctional molecular sensing of DNA/RNA secondary structure by chemical sensors" with the emphasis on:

 screening and selection/sorting of fluorophore-tagged bio-molecules from the previously prepared library and performing the additional spectroscopic sensing experiments to get insight into selectivity (isothermal titration calorimetry (ITC), differential scanning calorimetry (DSC))

11/2016 - 05/2018

Senior Research Assistant – Postdoctoral Research Fellow Postdoctoral study abroad Institute of Medical Biology, Lodz, POLAND

Laboratory of Molecular Virology and Biological Chemistry Polish Academy of Sciences

Senior research scientist with the main focus on:

Working on the project entitled "Oligo-Derivative Composites of Nucleic Acids and Boron Clusters – a New Material for Bionanotechnology"

- design, synthesis, and full characterization of boron cluster nucleobase/nucleoside conjugates;
- investigation of the prospective applications of new entities (phosphorylation potential radiolabelling with P-32 and H-3; supramolecular chemistry and potential to form nano constructions – R&D of new nanomaterials, electrochemical genosensors, etc.);
- biological experiments in vitro with different virus cell lines (cell cultivation, preliminary biological screening of synthesized compounds, data analysis, and report – structure/activity relationship discussion)

Dijana Pavlović Saftić



12/2013 - 11/2016

Senior Research Assistant – Postdoc Postdoctoral scientific training in Croatia Ruđer Bošković Institute, Zagreb, CROATIA

Division of Organic Chemistry and Biochemistry Laboratory for Biomolecular Interactions and Spectroscopy (previously Laboratory for Supramolecular and Nucleoside Chemistry)

Senior research scientist with the main focus on:

- A. Working on the project entitled "Multifunctional molecular sensing of DNA/RNA secondary structure by chemical sensors"
- design, synthesis, and full characterization of fluorophore-tagged bio-molecules and their applications as multifunctional small molecular sensors for various DNA/RNA oligonucleotides (R&D of new dyes in molecular diagnostic assays)
- investigation of anticancer activity biological experiments in vitro with different cancer cell lines carcinoma, leukemia, and lymphoma cell lines (cell cultivation, preliminary biological screening of
 synthesized compounds, data analysis, and report structure/activity relationship discussion)
- B. Working on the project entitled "Purine salvage pathway enzymes from *Helicobacter pylori* and *Escherichia coli*"
- design and synthesis of new purine nucleoside phosphorylase inhibitors (PNP inhibitors) based on molecular modeling (docking) experiments (R&D of next-generation pharmaceuticals for the treatment of autoimmune diseases)

04/2008 - 11/2013

Research Assistant

Ph.D. Graduate Student, Assistant Ruđer Bošković Institute, Zagreb, CROATIA

Division of Organic Chemistry and Biochemistry Laboratory for Supramolecular and Nucleoside Chemistry

Junior research scientist – Ph.D. graduate student with the main focus on:

Working on the project entitled "Synthesis of novel biologically active nucleobase and nucleotide derivatives"

- design, synthesis, and full characterization of nucleobase/nucleoside purine/pyrimidine derivatives (development, optimization, and implementation of contemporary synthetic methodologies as well as application of well-established synthetic methods for the preparation of new series of compounds);
- investigation of anticancer activity biological experiments in vitro with different cancer cell lines carcinoma, leukemia, and lymphoma cell lines (cell cultivation, preliminary biological screening of synthesized compounds, data analysis, and report – structure/activity relationship (SAR) discussion)

07/2006

Professional practice at the end of undergraduate studies (field: Dairy industry) LURA GRUPA d.d., the majority owner of the Dukat industry Ulica grada Vukovara 271, Zagreb, CROATIA

- evaluation of microbiological quality and safety of milk and dairy products (work under strictly sterile conditions)
- analysis of organoleptic properties of dairy products
- application of analytical methods to determine the content and the share of fat and protein in selected products
- getting acquainted with the operation of the plant in the dairy industry



06/2001 - 08/2001

Professional practice at the end of vocational secondary education (field: Pharmacy)
Pharmacy Baričević

Josipa Marića 1, Hrvatska Kostajnica, CROATIA

- everyday working with patients
- manufacture of magistral and galenic pharmaceutical formulations (ointments, creams, solutions, suspensions, elixirs, waters, etc.)
- issuance of medicines according to medical prescriptions and patient counseling
- follow-up work in pharmacy and intensive communication with suppliers

EDUCATION AND TRAINING

11/2016 - 05/2018 Postdoctoral study

Institute of Medical Biology, Lodz, POLAND

Laboratory of Molecular Virology and Biological Chemistry

Polish Academy of Sciences

11/2013 – 11/2016 Postdoctoral scientific training

Ruđer Bošković Institute, Zagreb, CROATIA

Division of Organic Chemistry and Biochemistry

Laboratory for Biomolecular Interactions and Spectroscopy

05/2008 – 11/2013 Ph.D. Graduate Study (subdiscipline: Organic chemistry)

Faculty of Science

University of Zagreb, Zagreb, CROATIA

THESIS TITLE "Novel 1,4-Disubstituted 1,2,3-Triazole Derivatives of the Purine

and Pyrimidine Series: Synthesis and Biological Evaluation"
Supervisor: Dr. Biserka Žinić, Senior Scientist, Full Prof.

(defended on November 29, 2013)

ACADEMIC DEGREE Doctor of Philosophy in Chemistry (Ph.D.)

09/2002 – 11/2007 Undergraduate Study (subdiscipline: Biochemical engineering)

Faculty of Food Technology and Biotechnology

University of Zagreb, Zagreb, CROATIA

THESIS TITLE "Quaternary Salts of Pyridoxal Oxime"

Research Advisor: Prof. Dr. Jasna Vorkapić-Furač, Full Prof.

(defended on November 05, 2007)

ACADEMIC DEGREE Master of biotechnology (Mag. ing. biotech.)

09/1998 – 05/2002 The Zagreb Health School (field: Pharmacy technician)

Secondary vocational education, Zagreb, CROATIA

TITLE Pharmacy technician

CLASSES

(GRADUATE, UNDERGRADUATE, POSTGRADUATE / DOCTORAL STUDY)

SEPTEMBER 2015

<u>Lecturer</u> - within the Module "Preparation, Analysis and Application of Oligonucleotides", Lecture Topic: "Preparation, analysis, and application of oligonucleotides", International Ph.D. Study in Medicinal Chemistry, University of Rijeka, Rijeka, Croatia





Curriculum Vitae

January 2012, October 2013

Invited Lecturer - within the Course "Instrumental Measurement Techniques and Physical Methods in Biomedical Analytics", Lecture Topic: "Refractometry and Polarimetry", Department of Medicinal Chemistry, Biochemistry and Clinical Chemistry, Faculty of Medicine, University Undergraduate Study in Biomedical Laboratory Technologies, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia

July 2013

<u>Mentor</u> of the undergraduate student's Praxis in the Group of Prof. Dr. B. Žinić, Ruđer Bošković Institute

Main Investigator: Ana-Maria Županić, Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia

October 2004 – January 2005

<u>Teaching Assistant</u> within the Course "General Microbiology", Laboratory for General Microbiology and Food Microbiology, Department of Biochemical Engineering, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

MAIN TOPICS OF RESEARCH WORK / EXPERTISE

Organic synthesis

- expertise in heterocyclic chemistry, especially in nucleobase/nucleoside, carbohydrate, peptide, and organometallic chemistry, boron clusters chemistry extensive experience in design and synthesis of new classes of compounds by using classical methods of synthesis and modern "green chemistry" approaches (microwave-assisted synthesis, solid phase synthesis mechanochemical synthesis, etc.)
- experience in the synthesis of biological conjugates of DNA aptamers and peptides using the most modern methods of click chemistry

Complete characterization and studies of organic compounds

- development, validation, and transfer of analytical methods (expertise in using preparative and column chromatography as well as semi-/preparative high-performance liquid chromatography (HPLC))
- rich experience of assignment of 1D (¹H, APT, ¹¹B) and 2D (Cosy, Noesy) NMR spectra
- (practical experience in instrumental techniques)
- experience in the application of various high-resolution mass spectrometry techniques (ESI-HRMS, MALDI-HRMS, FAB-HRMS)
- experience in the application of infrared spectroscopy (FTIR) as well as
- UV-Vis and fluorescent spectroscopy and other spectroscopic (CD/LD) and calorimetry (ITC, DSC) techniques used in quantitative studies of a wide variety of biomolecular interactions in solution
- experience in applying biochemical techniques of visualization and monitoring of chemical transformations (SDS-PAGE electrophoresis)

Medicinal chemistry

- biological screening of potential biologically active compounds *in vitro* (antitumor, antibacterial and antiviral research) an experience of working under sterile conditions
- analysis of final results and report preparations → structure activity relationship (SAR) discussion

PERSONAL SKILLS

Mother tongue Other languages

Croatian					
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	C1
	A2	A1	A1	A1	A1

English German





Curriculum Vitae

Organisational / managerial skills

- Committee member and participant of the project Festival of Science by Young Researchers at RBI, Zagreb, Croatia (2011)
- Active participation in the projects related to the promotion of science Coordination and participation at the Open days' RBI, Zagreb, Croatia (2008, 2010, 2013, 2015, 2016, 2019, 2022), December, 8th 2022 – lecture devoted to Nobel Prize in Chemistry 2022
- Coordination and participation at the Festival of Science organized by the University of Zagreb, British Council and the Technical Museum in Zagreb, Zagreb, Croatia (2012, 2013)
- Young researcher's representative within the council of the Department of Organic Chemistry and Biochemistry (2013/2014)

Digital skills

- MS Windows OS and MS Office
- software with the application in organic chemistry (ChemDraw, SpinWorks, Origin, MestReNova, Mercury)

Fellowships, scholarships, and awards

- Annual RBI award for scientific work in 2018 (December 17, 2019)
- Fellowship for Zn-Net Conference & Workshop "Measuring Zinc", London, United Kingdom (November 03–05, 2014) (received from Zn-Net COST Action TD1304)
- Fellowship for the European-Winter School on Physical Organic Chemistry (E-WiSPOC 2014),
 Bressanone, Italy (February 02–07, 2014) (received from COST Action CM1005)
- 09/2002 11/2007 Sisak-Moslavina County Fellowship for Top Students 09/1998 05/2002 PBZ foundation Scholarship for Top Students

Memberships

Croatian Chemical Society (HKD)

The alumni society of the chemical engineers and their friends at the University of Zagreb (AMACIZ) and Academic Choir Vladimir Prelog

Driving license

B category

ADDITIONAL INFORMATIONS

Scientific publications

Scientific Papers published in Journals Cited by Current Contents (CC) and/or other databases

- D. Pavlović Saftić, I. Krošl Knežević, F. de Lera Garrido, J. Tolosa, D. Majhen, I. Piantanida, J. C. García Martínez, Int. J. Mol. Sci. 2024, 25, 5724. (https://doi.org/10.3390/ijms25115724)
- D. Pavlović Saftić, R. Ricker, P. Mentzel, J. Krebs, H. Amini, S. Lorenzen, N. Schopper, A. Kendel, S. Miljanić, J. Morvan, M. Mauduit, Y. Trolez, I. Piantanida, T. B. Marder, Microchem J. 2024, 196(13), 109665. (https://doi.org/10.1016/j.microc.2023.109665)
- I. Sviben, M. Glavaš, A. Erben, T. Bachelart, D. Pavlović Saftić, I. Piantanida, N. Basarić, Molecules 2023, 28(16), 7533. (https://doi.org/10.3390/molecules28227533)
- I. Nikšić-Franjić, B. Colasson, O. Reinaud, A. Višnjevac, I. Piantanida, D. Pavlović Saftić, RSC Adv. 2023, 13, 27423–27433. (https://doi.org/10.1039/D3RA05696A)
- D. Pavlović Saftić, Ž. Ban, K. Mišković Špoljarić, Lj. Glavaš-Obrovac, B. Žinić, New J. Chem. 2023, 47, 17434–17448. (https://doi.org/10.1039/D3NJ03724J)
- M. Leventić, T. Opačak-Bernardi, V. Rastija, J. Matić, D. Pavlović Saftić, Ž. Ban, B. Žinić, Lj. Glavaš-Obrovac, Molecules 2023, 28(15), 6136. (https://doi.org/10.3390/molecules28166136)
- 7. P. Petrović, **D. Pavlović Saftić**, A. Kenđel, S. Miljanić, *J. Raman Spectrosc.* **2023**, 1–10. (https://doi.org/10.1002/jrs.6586)
- L.-M. Tumir, D. Pavlović Saftić, I. Crnolatac, Ž. Ban, M. Maslać, S. Griesbeck, T. B. Marder, I. Piantanida, Molecules 2023, 28(11), 4348. (https://doi.org/10.3390/molecules28114348)



- K. Bednarska-Szczepaniak, A. Mieczkowski, A. Kierozalska, D. Pavlović Saftić, K. Głąbała, T. Przygodzki, L. Stańczyk, K. Karolczak, C. Watała, H. Rao, Z.-G. Gao, K. A. Jacobson, Z. J. Leśnikowski, Eur. J. Med. Chem. 2021, 223, 113607–113631. (https://doi.org/10.1016/j.ejmech.2021.113607)
- D. Kodr, C. Pinar Yenice, A. Simonova, D. Pavlović Saftić, R. Pohl, V. Sýkorová, M. Ortiz, L. Havran, M. Fojta, Z. J. Leśnikowski, C. K. O'Sullivan, M. Hocek, J. Am. Chem. Soc. 2021, 143, 7124–7134. (https://doi.org/10.1021/jacs.1c02222)
- J. Matić, M. Jukić, H. Ismaili, D. Saftić, Ž. Ban, T. Tandarić, R. Vianello, T. Opačak-Bernardi, Lj. Glavaš-Obrovac, B. Žinić, *Nucleos. Nucleot. Nucl.* 2021, 40(4), 470–503. (https://doi.org/10.1080/15257770.2021.1896001)
- 12. **D. Saftić**, M. Studzińska, E. Paradowska, I. Piantanida, G. Baranović, M. Białek-Pietras, Z. J. Leśnikowski, *Bioorg. Chem.* **2020**, *94*, 103466. (https://doi.org/10.1016/j.bioorg.2019.103466)
- H. Ismaili, Ž. Ban, J. Matić, D. Saftić, M. Jukić, Lj. Glavaš-Obrovac, B. Žinić, Croat. Chem. Acta 2019, 92(2), 269–277. (https://doi.org/10.5562/cca3567)
- 14. **D. Saftić**, Ž. Ban, J. Matić, L.-M. Tumir, I. Piantanida, *Curr. Med. Chem.* **2019**, *26*(30), 5609–5624. (https://doi.org/10.2174/0929867325666180508090640)
- 15. Lj. Glavaš-Obrovac, M. Jukić, K. Mišković, I. Marković, **D. Saftić**, Ž. Ban, J. Matić, B. Žinić, *J. Trace. Elem. Med. Bio.* **2019**, 55, 216–222. (https://doi.org/10.1016/j.jtemb.2017.10.009)
- 16. A. Kurutos, I. Orehovec, **D. Saftić**, L. Horvat, I. Crnolatac, I. Piantanida, T. Deligeorgiev, *Dyes Pigments* **2018**, *158*, 517–525. (https://doi.org/10.1016/j.dyepig.2018.05.035)
- 17. R. Kobetić, V. Ključarić, **D. Saftić**, J. Matić, Ž. Ban, S. Kazazić, B. Žinić, *J. Mass. Spectrom.* **2018**, *53*, 655–664. (https://doi.org/10.1002/jms.4197)
- 18. **D. Saftić**, B. Žinić, Lj. Glavaš-Obrovac, M. Studzińska, E. Paradowska, Z. J. Leśnikowski, *Nucleos. Nucleot. Nucl.* **2018**, *37*, 397–414. (https://doi.org/10.1080/15257770.2018.1485932)
- L. Krstulović, D. Saftić, H. Ismaili, M. Bajić, Lj. Glavaš-Obrovac, B. Žinić, Croat. Chem. Acta 2017, 90(4), 625–636. (https://doi.org/10.5562/cca3273)
- 20. **D. Saftić**, M. Radić Stojković, B. Žinić, Lj. Glavaš-Obrovac, M. Jukić, I. Piantanida, L.-M. Tumir, *New J. Chem.* **2017**, *41*, 13240–13252. (https://doi.org/10.1039/C7NJ02699D)
- 21. V. Ključarić, R. Kobetić, J. Rinkovec, S. Kazazić, D. Gembarovski, **D. Saftić**, J. Matić, Ž. Ban, B. Žinić, *J. Mass. Spectrom.* **2016**, *51*, 998–1005. (https://doi.org/10.1002/jms.3810)
- 22. **D. Saftić**, R. Vianello, B. Žinić, *Eur. J. Org. Chem.* **2015**, *35*, 7695–7704. (https://doi.org/10.1002/ejoc.201501088)
- 23. N. Župančić, Ž. Ban, J. Matić, **D. Saftić**, Lj. Glavaš-Obrovac, B. Žinić, *Croat. Chem. Acta* **2015**, *88*(1), 43–52. (https://doi.org/10.5562/cca2531)
- 24. **D. Saftić**, B. Žinić, A. Višnjevac, *Tetrahedron* **2012**, *68*, 1062–1070. (https://doi.org/10.1016/j.tet.2011.11.086)
- 25. M. Cetina, A. Nagl, D. Gašo-Sokač, S. Kovač, V. Bušić, **D. Saftić**, *J. Chem. Crystallogr.* **2012**, *42*(7), 752–758. (https://doi.org/10.1007/s10870-012-0312-γ)

Scientific Papers in the Professional Journals

- 1. D. Saftić, L. Krstulović, M. Bajić, B. Žinić, Kem. Ind. 2015, 64, 481–498.
- 2. L. Krstulović, D. Saftić, J. Matić, M. Bajić, B. Žinić, Kem. Ind. 2015, 64, 499–512.

Book chapter



Ž. Ban, **D. Saftić**, N. Župančić, I. Nekola, H. Ismaili, B. Žinić "Application of Click Reactions in the Synthesis of 1,4-Disubstituted 1,2,3-Triazole Conjugates with Ribofuranosides and Reversed Nucleosides" u Cycloaddition Reactions: Advances in Research and Applications/Davor Margetic (Ur.), New York: Nova Science Publishers, 2019. p. 73-101.

Conferences (oral&poster presentations), Scientific projects, Additional scientific specializations

Conferences

Poster Presentations

- EFMC-ASMC'23, EFMC International Symposium of Advances in Synthetic and Medicinal Chemistry, Zagreb, Croatia (September 03–07, 2023)
 - "Pyrene-Armed Calix[4]Arene Derivatives As Highly Sensitive Fluorescent Reporters" (**D. Pavlović Saftić,** I. Nikšić-Franjić, B. Colasson, O. Reinaud, A. Višnjevac, I. Piantanida)
- 2. 1st ITALIAN-UK Platelet Meeting 2017, Bath, United Kingdom (September 7–8, 2017)
 - "Comparative evaluation of antiplatelet activity of carborane and phenyl modified novel adenosine receptor ligands" (T. Przygodzki, M. Vincenzi, A. Rembowska, **D. Saftić**, K. Bednarska, K. Karolczak, C. Watała, Z. J. Leśnikowski)
- 3. EFMC-ASMC'17, EFMC International Symposium of Advances in Synthetic and Medicinal Chemistry, Vienna, Austria (August 27–31, 2017)
 - "Synthesis, Anticancer and Antiviral Activity of Novel 8-(4-Substituted-1*H*-1,2,3-Triazol-1-yl)purine Derivatives" (**D. Saftić**, Lj. Glavaš-Obrovac, M. Studzińska, E. Paradowska, Z. J. Leśnikowski, B. Žinić
- XXII. INTERNATIONAL ROUNDTABLE ON NUCLEOSIDES, NUCLEOTIDES AND NUCLEIC ACIDS, Paris, France (July 18–22, 2016)
 - "Fluorophore-5-(1,2,3-Triazol-4-yl)uracil Peptides as Selective Fluorescent Sensors for Various DNA/RNA Targets" (**D. Saftić**, B. Žinić, C. Schmuck, I. Piantanida)
- XXIV. CROATIAN MEETING OF CHEMISTS AND CHEMICAL ENGINEERS, Zagreb, Croatia (April 21–24, 2015)
 - a/ "Fluorophore-tagged Nucleobase Derivatives" (**D. Saftić**, B. Žinić, M. Radić Stojković, L.-M. Tumir, I. Piantanida)
 - b/ "Zn²+ Intereferences with *N*-sulfonylpyridine Derivatives" (R. Kobetić, V. Ključarić, J. Matić, **D. Saftić**, Ž. Ban, B. Žinić)
- 6. 5th EUCHEMS CHEMISTRY CONGRESS-2014, Istanbul, Turkey (August 31–September 04, 2014)
 - "Efficient Synthetic Routes for the Preparation of the Oxazolo[3,2-c]Pyrimidines" (J. Matić, Ž. Ban, **D. Saftić**, B. Žinić)
- "MACROCYCLES: SYNTHESIS, MEDICINAL CHEMISTRY AND BIOLOGICAL ACTIVITY", Zagreb, Croatia (April 28–29, 2014)
 - "Synthesis of Nucleobase-Cyclam Conjugates and Transition Metal Complexes" (J. Matić, **D. Saftić**, Ž. Ban, B. Žinić)
- 8. XX. INTERNATIONAL ROUNDTABLE ON NUCLEOSIDES, NUCLEOTIDES AND NUCLEIC ACIDS, Montréal, Québec, Canada (August 05–09, 2012)
 - "Synthesis of *N*-1-Sulfonyl-5-(1,2,3-triazol-4-yl)uracil Derivatives and Evaluation of Their Anticancer Activity" (**D. Saftić**, Lj. Glavaš-Obrovac, B. Žinić)



- XXII. CROATIAN MEETING OF CHEMISTS AND CHEMICAL ENGINEERS, Zagreb, Croatia (February 13– 16, 2011)
 - "Synthesis of Novel C-8 Substituted Purine Derivatives Potential Antiviral Agents" (D. Saftić, B. Žinić)
- 10. 18th CROATIAN SLOVENIAN CRYSTALLOGRAPHIC MEETING, Varaždin, Croatia (June 17-21, 2009)
 - "Supramolecular Structures of Two Phenacyl Pyridoxal Oxime Derivatives" (M. Cetina, A. Nagl, D. Gašo-Sokač, **D. Saftić**, S. Kovač)
- 11. XXI. CROATIAN MEETING OF CHEMISTS AND CHEMICAL ENGINEERS, Split, Croatia (April 19–22, 2009)
 - a/ "Synthesis and Biological Activity of Novel Pyrimidine Derivatives" (**D. Saftić**, Ž. Žakić, N. Župančić, Lj. Glavaš-Obrovac, B. Žinić)
 - b/ "Quaternization of Pyridoxal Oxime with Phenacyl Halogenides" (D. Gašo-Sokač, S. Kovač, V. Bušić, **D. Saftić**)
- **12.** CONGRESS OF THE CROATIAN SOCIETY OF BIOCHEMISTRY AND MOLECULAR BIOLOGY HDBMB 2008, Osijek, Croatia (September 17–20, 2008)
 - "Synthesis and Bioevaluation of 5-Fluorouracil Derivatives" (Ž. Žakić, **D. Saftić**, N. Župančić, Lj. Glavaš-Obrovac, B. Žinić)

Oral Presentations

- E-WiSPOC 2014 European-Winter School on Physical Organic Chemistry, Bressanone, Italy (February 02–07, 2014) (COST Action CM1005)
 - "Nucleobase-derivatives in a Biologically Relevant Complex Systems" (**D. Saftić**, B. Žinić, I. Piantanida)
- XXIII. CROATIAN MEETING OF CHEMISTS AND CHEMICAL ENGINEERS, Osijek, Croatia (April 21–24, 2013)
 - "Synthesis of 9-Sulfonylpurine Derivatives and Stability Enhancement with Small Structural Modifications" (**D. Saftić**, J. Matić, Ž. Ban, H. Ismaili, B. Žinić)

Scientific Projects

- **2023. 2027.** "Novi peptid-oligonukleotid-kromofor konjugati za biokemijsku dijagnostiku i bioaktivnost", projekt HRZZ, voditelj: Dr. sc. Ivo Piantanida, zn. savj., Institut Ruđer Bošković, Zagreb, Hrvatska
- **2022. 2023.** "G-Quadruplex-tagged bacteria-binding peptides", International project funded by European Union (European Union's Horizon 2020 research and innovation programme, Grant No 952110), Principal Investigator: Dr. Ivan Barišić, AIT Austrian Institute of Technology, Austria
- **2018. 2022.** "Višekromoforne probe za prepoznavanje pojedinih struktura DNA, RNA i proteina", Croatian Science Foundation HRZZ, Principal Investigator: Dr. Ivo Piantanida, Senior Scientist, Ruđer Bošković Institute, Zagreb, Croatia
- **2016. 2019.**"Mehanokemijska reaktivnost pod kontroliranim uvjetima temperature i atmosfere za čistu sintezu funkcionalnih materijala (MECHANOCONTROL)", Croatian Science Foundation HRZZ, Principal Investigator: Dr. Krunoslav Užarević, Senior Research Associate, Ruđer Bošković Institute, Zagreb, Croatia
- **2017. 2019.** "Picolyl based cyanostilbene metallogel systems as anion sensors", Croatian-Chinese bilateral project, Principal Investigator in Croatia: Dr. Zoran Džolić, Research Associate, Ruđer Bošković Institute, Zagreb, Croatia; Principal Investigator in China: Prof. dr. Shimei Jinag, State Key Laboratory of Supramolecular Structure and Materials, College of Chemistry, Jilin University, Changchun City, Jilin Province, PR China







- 2016. 2018. "Oligo-Derivative Composites of Nucleic Acids and Boron Clusters a New Material for Bionanotechnology", Principal Investigator: Prof. dr. hab. Zbigniew J. Leśnikowski, Institute of Medical Biology PAS, Lodz, Poland
- 2014. 2018. "Multifunctional molecular sensing of DNA/RNA secondary structure by chemical sensors",
 Croatian Science Foundation HRZZ, Principal Investigator: Dr. Ivo Piantanida, Senior Scientist,
 Ruđer Bošković Institute, Zagreb, Croatia
- 2014. 2018. "Purine salvage pathway enzymes from *Helicobacter pylori* and *Escherichia coli*",
 Croatian Science Foundation HRZZ, Principal Investigator: Dr. Marija Luić, Senior Scientist, Ruđer Bošković Institute, Zagreb, Croatia
- 2007. 2013. "Synthesis of novel biologically active nucleobase and nucleotide derivatives", Croatian Ministry of Science, Education and Sports founded project, Principal Investigator: Dr. Biserka Žinić, Senior Scientist, Full Prof., Ruđer Bošković Institute, Zagreb, Croatia

Additional scientific specialization

- The Anton Paar Synthesis Seminar, Anton Paar Croatia d.o.o., Zagreb, Croatia (January 28, 2020)
- 2. Workshop on Molecular modeling organized by Croatian Association for Cancer Research (HDIR), Ruđer Bošković Institute, Zagreb, Croatia (October 24 25, 2019)
- 3. InnoMol New Platforms for Molecular Solutions in Research and Development Workshop, Zagreb, Croatia (May 11 12, 2016)
- 4. Symposium & Workshop on Microscale Thermophoresis, Zagreb, Croatia (June 30 July 01, 2015)
- 5. Zn-Net COST Action TD1304, Zn-Net Conference & Workshop "Measuring Zinc", London, Great Britain (November, 03 05, 2014)
- 6. InnoMol Bioimaging Workshop, Zagreb, Croatia (October 20 22, 2014)
- Zn-Net COST Action TD1304, member of Working Group 1: Chemical Biology, Budapest, Hungary (March 25 26, 2014)
- 8. E-WiSPOC 2014 European-Winter School on Physical Organic Chemistry, Brixen, Italy (February 02 07, 2014) (COST Action CM1005)
- 9. Cambridge Structural Database Workshop, Zagreb, Croatia (March 03 04, 2010)
- Stationary phase of the HPLC and UPLC columns (News in liquid chromatography), Zagreb, Croatia (March 03, 2009)
- **11.** Mass spectroscopy Quadrupole UPLC/MS Innovations and Applications, Slovenian-Croatian Waters LC & MS Users' Meeting, Moravske Toplice, Slovenia (November 04 07, 2008)