



PERSONAL INFORMATION


Ana Filošević



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 https://scholar.google.hr/citations?view_op=list_works&hl=hr&user=XepxYUAAAAJ
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https://www.researchgate.net/profile/Ana_Filosevic/publications

Sex female |

WORK EXPERIENCE

- | | |
|-------------------------------|--|
| 02.01.2019. – | <p>Postdoctoral Research Fellow</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia
Laboratory for behavioral genetics</p> |
| 12.02.2018.-21.12.2018. | <p>Chemistry Teacher</p> <p>Natural Science and Graphics School of Rijeka, Vukovarska 58, 51 000 Rijeka, Croatia</p> |
| 15.02.2018.-15.09.2018. | <p>Expert Associate in Natural Sciences, Field of Biology - Behavioral Neurobiology</p> <p>Mediterranean Institute for Life Sciences (MedILS), Meštrovićevo šetalište 45, 21 000 Split, Croatia</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia
Laboratory for behavioral genetics</p> |
| 01.01.2017. – 31.01.2018. | <p>Assistant, Scientific Area: Natural Sciences, Field: Biology - behavioral neuroscience (Ph.D. student)</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia
Laboratory for behavioral genetics</p> |
| 01.01. 2015. -31. 12. 2016. | <p>Expert Associate in the natural sciences, field of chemistry - behavioral neuroscience (Ph.D. student)</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia
Laboratory for behavioral genetics</p> |
| 01. 02. 2014. - 31. 12. 2014. | <p>Expert Associate for the preparation and implementation of EU projects</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia</p> <p>“Ruđer Bošković” Institute, Bijenička cesta 54, 10 000 Zagreb, Croatia</p> <p>Thalassotherapia Opatija - Clinic for treatment, rehabilitation and prevention of heart and blood vessel diseases, Ul. Maršala Tita 188, 51410 Opatija, Croatia</p> |
| 01. 02. 2014. – 31. 12. 2014. | <p>Expert Associate in the natural sciences, field of chemistry</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia</p> <p>Panaceo International Active Mineral Production GmbH, Finkensteiner Str. 5, 9585 Villach-Gödersdorf, Austria</p> |
| 25. 11. 2013. – 31. 12. 2014. | <p>Teaching Assistant</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia</p> |
| 01.02. 2013. –31.01. 2014. | <p>Laboratory manager</p> <p>University of Rijeka, Department of Biotechnology, Radmile Matejčić 2, 51 000 Rijeka, Croatia</p> |

EDUCATION

- 29.01.2018. **Postgraduate studies (Ph.D.)**
Course: „Medicinal Chemistry“
Orientation: biotechnology in biomedicine
 Department of Biotechnology, University of Rijeka, Radmile Matejčić 2, 51 000 Rijeka, Croatia
- 06.07.2012. **Master of Chemistry (M.Sc.)**
Course: research
Orientation: inorganic and structural chemistry and biochemistry
 Faculty of Science, University of Zagreb, Department of Chemistry, Horvatovac 102a, 10 000 Zagreb, Croatia
- 24.09.2010. **Bachelor of Chemistry (B.Sc.)**
 Faculty of Science, University of Zagreb, Department of Chemistry, Horvatovac 102a, 10 000 Zagreb, Croatia

ADDITIONAL TRAINING

- Scientific training
- 11.-20.11.2016. training in the field of rhythmicity and chronobiology , **Prof. Charlotte Förster, Ph.D.**, Lehrstuhl für Neurobiologie und Genetik, Universitaet Wuerzburg, Biozentrum Am Hubland, Wuerzbur, Germany
 - 22.07.2016. sample preparation and *in vivo* imaging **Prof. Gero Miesenböck, Ph.D.**, Centre for Neural Circuits and Behaviour, University of Oxford, Oxford, UK
 - 07.-13.06. 2016. video monitoring and quantification of Drosophila behavior using the echoscope method, **Prof. Giorgio F. Gilestro, Ph.D.**, Imperial College London, Faculty of Natural Sciences, Department of Life Sciences, London, UK
 - 01.10.-01.11.2014. work on assays for the quantification of learning and memory (reward and punishment), the basis of work with flies, genetic tools and manipulations, **Prof. Scott Waddell, Ph.D.**, "British Scholarship Trust" scholarship for scientific research at UK universities, Center for Neural Circuits and Behaviour, University of Oxford, Oxford, UK
 - 21.-25.07.2014. and 22.-26.09.2014. training in the field of colloidal and interfacial chemistry, **Prof. Tajana Peročanić, Ph.D.** and **academician Prof. Nikola Kallay, Ph.D.**, at Department for physical chemistry, Faculty of science, University of Zagreb, Department of chemistry, Horvatovac 102a, 10 000 Zagreb, Croatia
 - 15.-16.05.2014. and 17.-19.09.2014. surface characterization using XPS **Prof. Mladen Petračić Ph.D.**, Centre for Micro and Nano Science and Technology, University of Rijeka, Rijeka, Croatia
- Summer schools
- 24.–29.07.2016., Oxford Sleep and Circadian Neuroscience Summer Schools, Sleep & Circadian Neuroscience Institute, University of Oxford, Oxford, UK
 - 29. 05. – 4. 06. 2016., FENS-SfN Summer School, “Cellular Mechanisms and Networks in Addiction”, Bertinoro, Italy
 - 26. 06. - 16. 07.2015., DROSOPHILA NEUROBIOLOGY: GENES, CIRCUITS & BEHAVIOR, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York 11724, SAD
 - 01.-12. 09. 2014., 2014. Zürich Summer School on Biomedical Imaging, 8th Zürich Interdisciplinary Summer School on Biomedical Imaging, ETH Zürich, Switzerland
 - 12.-13. 06. 2014., 15th International Chromatography School, Zagreb, Croatia
- Training in the field of science popularization and education
- 03.-05.03.2017. Višnjani Scientific and Educational center/Astronomical Society Višnjani, education for new mentors in national and EU context, principles, organization and preparation of educational project, Korado Korlević, Višnjani, Croatia
 - 12.07.2016. and 14.07.2016. Improvement of evaluation procedures at the University of Rijeka, UNAPRORI, Training for teacher competence improvement, Prof. Svjetlana Kolić-Vehovec, Ph.D., Ass.Prof. Sanja Smojver-Ažić , Ph.D.
 - 14.-15.03.2016. The training program in science communication, working with the media, presentations live and work in front of the cameras, organized by British Council Croatia as FameLab finalist in Croatia, mentors Karl Byrne and Krešimir Macan, Terme Jezerčica, Donja Stubica, Croatia
- Advanced education and training in the field of economics and management
- 06.-08.03.2017. Career Booster Rijeka, organizations Start-Up, Faculty of Economic, University of Rijeka, Rijeka, Croatia
 - 13.09.2013. Mapa znanja, Tendering and EU funds for bidders and contracting authorities – Methodology of investment projects financed by EU funds in connection with public procurement, lector: M.Sc. Zdravko Pandić, Zagreb, Croatia

- Other training
- ECDL-European Computer Driving Licence, University of Zagreb, University Computing Center (SRCE) 08. 12. 2012.

PERSONALS SKILLS

Mother tongue Other languages	Croatian		SPEAKING		WRITING
	UNDERSTANDING		Spoken interaction	Spoken production	
	Listening	Reading			
English	A2	B2	A2	B2	A2
German	A2	B1	A2	A2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills
- good communication and organization skills developed at the position of laboratory and project manager
 - presentation of scientific subjects to different type of audience

- Organizational / managerial skills
- experience in managing projects and teams
 - accurate in respect of deadlines
 - analytical in the organization of tasks
 - motivated and committed to work

- Job-related skills
- chemistry and biochemistry related techniques: FT-IR, TGA, DSC, UV-VIS, X-ray diffraction on single crystal and polycrystalline, cell cultures, isolation of DNA and RNA, PCR, methods of recombinant DNA, isolation and purification of proteins, ICP-MS, XPS-MS, UHPLC, GC-FID and determination of electro-kinetic parameters of colloidal systems
 - behavior assays using model organism *Drosophila melanogaster*: reward and punishment learning and memory in controlled environment using a T-maze, sleep and activity using DAMS, negative geotaxis, PER assay for learning and memory, addiction
 - methods of confocal microscopy and visualization using a fluorescent dye / protein
 - good knowledge of methods in quality management of projects (in charge for finance and economic suitability and the implementation of the EU project)
 - experience in preparation of SWOT analysis and risk assessment of project proposals as well as the economic and financial sustainability of the project
 - knowledge of the new products introducing methodology to the market as well as the recruitment of new personnel (human resources management)
 - knowledge of the legal framework relating to patents and intellectual property
 - experience in tendering procedure (EU and Croatian law framework)
 - keeping records and procurement at the department level
 - coordination between employees, managers and head of the Laboratory of the Department

- Computer skills
- great computer skills proficient in MS Office programs (MS Word, MS PowerPoint, MS Excel, MS Access, MS Outlook)
 - knowledge of scientific database search (SCOPUS, Science Direct, PubMed, Protein Data Bank (PDB), Cambridge Structural Database (CSD),) as well as Web technologies
 - knowledge of working with modern computational methods that are used to interpret and predict the structure and reactivity of molecules Marvin, Gaussian
 - knowledge of work with Statistica, Prism - GraphPad and MedCalc to set up numerical models and methods
 - knowledge of Zotero literature organization software

- Other skills
- molecular biology of addiction (neurochemistry and neurobiology)
 - Behavioral genetics

Driving license

- chemical synthesis
- B

ADDITIONAL INFORMATION

Scientific and other projects

Project leader:

- “Fly-high – influence of oxidative stress” P940, scientific project financed by Student Council of University of Rijeka in 2017.
- “Biotechnologist for Rijeka” P870, community project financed by Student Council of University of Rijeka in 2017.

Associate on a project:

- Expert associate on the project "Influence of redox status on psychostimulant-induced neural plasticity“, financed through Croatian Science Foundation (HRRZ) 2794, project leader: associate professor Rozi Andrečić Waldowski, Ph.D.
- Expert associate on the project "Characterization of Aggregated Proteins in Neuropsychiatric Disorders, including Drosophila Models“, financed through Croatian Science Foundation (HRRZ), project leader: Ass. Prof. Nicholas Bradshaw, Ph.D.
- Mediterranean Institute for Life Sciences (MedILS), project NAOS (Bioderma - Institut Esthederm - Etat Pur) longevity & rejuvenation, project leader François-Xavier Pellay, Ph.D.
- Expert associate on the project "Defining the role of circadian genes in behavioral sensitization to psychostimulants in Drosophila melanogaster", financed through Croatian Science Foundation (HRRZ) 4920, project leader: assistant professor Rozi Andrečić Waldowski, Ph.D.
- Expert associate on the Projects of the University of Rijeka, Funds for scientific research at the University of Rijeka "Defining the role of circadian genes in behavioral sensitization to psychostimulants in Drosophila melanogaster", project leader: Ass. Prof. Rozi Andrečić Waldowski, Ph.D.
- Expert associate on international, development and research project with industry partners on development of new products "Medical agents for detoxification on artificial stomach and duodenum model", project leader: Prof. Sandra Kraljević Pavelić, Ph.D.
- Center for high throughput in biotechnology, European Union Infrastructural project: Research Infrastructure for Campus-based laboratories at University of Rijeka, 2013, RISK, project leader: Prof. Pero Lučin, Ph.D. and Prof. Nevenka Ožanić, Ph.D.

Teaching

University Undergraduate Study in Biotechnology and Drug Research, Department of Biotechnology, University of Rijeka

- Physical chemistry - compulsory course, laboratory work, associate 2013/2014.
- Organic chemistry - compulsory course, laboratory exercises, associate 2013 -
- Bioassays in drug research - compulsory course, seminars, associate - 2014/2015.
- Analytical chemistry - compulsory course, seminars and laboratory exercises, associate - 2019 -
- Drosophila as a model organism in neuroscience - elective course, laboratory exercises, associate - 2016 -
- Biology of mental illness - elective course, lectures and practical, associate - 2018 -

Integrated Undergraduate and Graduate Studies in Medicine, Faculty of Medicine, University of Rijeka

- Medical biology - laboratory exercises, associate - 2018 -
- Medicinal biology - practical course, study in English, associate - 2018 -.

Mentorship of thesis

Mentor:
Highschool thesis:

2019. O. Gostic, Synthesis, characterization and in vivo study of the toxicological effect of transition metal complexes with dopamine and quercetin as ligands

 •2019. M. Popic, Effect of pharmacological modification of monoamine on the self-administration phenotype of psychostimulants in *Drosophila melanogaster*

Co-mentor:Graduation thesis:

- 2019. M. Petrovic, Raw Data Analysis and Visualization System for *D. melanogaster* Activity Monitoring, co-mentoring with prof. dr. sc. Ana Meštrović from the Department of Informatics, University of Rijeka

Immediate mentor in laboratory workGraduation thesis:

- 2017. S. Al-samarai, Differences in the development of behavioral sensitization to cocaine compared to methamphetamine in *Drosophila melanogaster*
- 2017. M. Brkljačić, Investigating of antioxidant activity of various clinoptilolite materials on *Drosophila melanogaster* model
- 2017. A. Selimović, Defining the preferential consumption of cocaine and methamphetamine in *Drosophila melanogaster*
- 2017. J. Kolobarić, Influence of oxidative stress on development of locomotor sensitization in *Drosophila melanogaster*
- 2016. F. Rigo, Influence of tyrosol and quercetin on indicators of aging and redox status in period mutants of *Drosophila melanogaster*
- 2016. T. Žic, Influence of tyrosol and quercetin on indicators of aging and redox status in *Drosophila* timeless circadian mutants
- 2016. I. Čoso, Investigating characteristics of behavioral sensitization in *Drosophila melanogaster*
- 2015. A. Bolonja, Investigating the effect of polyphenols and ethanol on aging, behavior and longevity in *Drosophila melanogaster*

Bachelor thesis:

- 2016 A. Vitez, Testing Methamphetamine Sensitive Circadian Oscillator in *Drosophila*

Honors and awards

- IBRO Travel grant for attending “1st Instituto de Neurociencias PhD Student & Postdoc Meeting, Building Neuroscience: The future of a multidisciplinary field”, Alicante, Spain, 18.-19. 02.2016.
- Scholarship Foundation of the University of Rijeka for the co-financing student activities - Student training on summer school *Drosophila* Neurobiology Genes, Circuits & BEHAVIOR, CSHL, New York 26.06.–16. 07.2015.

Best poster presentation award 5th Student Congress of Neuroscience, NeuRi 2015. NEURI 2015. 24.-26. April 2015. Rijeka/Rab, Croatia with poster presentation of work. „Development of a new high-throughput assay for behavioral sensitization to psychostimulants in *Drosophila melanogaster*“, Maja Badurina, Ana Filošević, Ivan Odak, Rozi Andretić Wladowski

- “British Scholarship Trust” scholarship for scientific research at UK universities 2014. University of Oxford
- Two consecutive years 2011th and 2012th with a 4.84 grade point average out of 5.00, in the top 10 students at Department of Chemistry, Faculty of Science, University of Zagreb, Croatia

Organization of scientific meetings

- FENS Regional Meeting 2019, Beograd, Srbija, Special Interest Symposium II - Circadian and redox regulation in the development and potential treatment of substance addiction, organizers: Rozi Andretić Waldowski (Rijeka, HR) and Ana Filošević (Rijeka, HR) speakers: Ana Filošević (Rijeka, HR), Serge Birman (Paris, FR), Martha Merrow (Munich, DE), Edward Leigh Gibson (London, UK)

Membership in science organizations

- from September 2012. member of the “Croatian Chemical Society” in sections of Organic and Medicinal Chemistry
- from September 2015. member of “Croatian Society for Neuroscience”
- from February 2016. member of “Federation of European Neuroscience Societies” - FENS
- from June 2016. Postgraduate study representative at Student Council of the Department of biotechnology
- Associate Representative at the Biotechnology Department Council from November 2017 to February 2018.
- since July 2019 member of the “Croatian Society for Biochemistry and Molecular Biology”

Active participation in conferences and scientific meetings

Oral presentations:

- HDBMB 2019. Crossroads in Life Science, Lovran, Croatia, 25.-28.09.2019. "Circadian genes modulate antioxidative enzymes after psychostimulant administration in *D. melanogaster*"
- FENS Regional Meeting 2019, Belgrade, Serbia, 10.-13.07.2019., "Redox regulation of psychostimulant-induced behaviors in *Drosophila melanogaster*"
- 7th Student Congress of Neuroscience, NeuRi 2017., Rijeka/Rab, Croatia, 21.-23.04.2017., "Drosophila melanogaster a model organism in the addiction research", **A. Filošević**, A. Selimović, R. Andrečić Waldowski
- Neurofly 2016., 16th European Neurobiology of Drosophila Conference, Platania, Chania, Crete, Greece, 02.-06.09.2016., "Psychostimulants induce behavioral sensitization and tolerance in *Drosophila melanogaster*", **A. Filošević**, I. Čoso, R. Andrečić Waldowski
- 20th Young Neuroscientist Meeting, Rijeka, Croatia, 30.06.2016., "Complex behavior in simple organism: challenges in the quantification of behavior", **A. Filošević**, R. Andrečić Waldowski

Poster presentations:

- Lisbon addictions, 2nd European conference on addictive behaviours and dependencies, Lisbon, Portugal, 24.-26.10.2017., "Self-administration of cocaine and methamphetamine in *Drosophila melanogaster*", **A. Filošević**, A. Selimović, R. Andrečić Waldowski
- 2017. IEBMC, Biological Clocks: Mechanisms and Applications, Rijeka, Croatia, 6.-8.10.2017., "Circadian genes have phenotype-specific roles in psychostimulant-induced neuronal plasticity in *Drosophila*", **A. Filošević**, J. Kolobarić, A. Selimović, S. Al-samarai, R. Andrečić Waldowski
- 6th Croatian Neuroscience Congress, Osijek, Croatia, 16.-18.09.2017., "Interaction between redox status and psychostimulants-induced neural plasticity in *Drosophila*", **A. Filošević**, J. Kolobarić, S. Al-samarai and R. Andrečić Waldowski; "Preferential consumption of psychostimulants in *Drosophila melanogaster*: introduction of self-administration paradigm", A. Selimović, **A. Filošević**, R. Andrečić Waldowski
- Advances in Biomedical Research, MedILS, Split, Croatia, 03.-07.07. 2017., "Circadian Genes and Redox Regulate Neuroplasticity to Psychostimulants in *Drosophila*", **A. Filošević**, J. Kolobarić, S. Al Samarai, R. Andrečić Waldowski
- 19th Annual Genes, Brain and Behavior Meeting of IBANGS, Madrid, Spain, 15.-18.05.2017., "Drosophila melanogaster as model for studying drug addiction – introduction of self-administration paradigm: preferential consumption of cocaine in *Drosophila melanogaster*", **A. Filošević**, A. Selimović, R. Andrečić Waldowski
- 7th Student Congress of Neuroscience, NeuRi 2017., Rijeka/Rab, Croatia, 21.-23.04.2017., "Role of oxidative stress in behavioral sensitization to psychostimulants in *Drosophila*", S. Al-Samarai, J. Kolobarić, **A. Filošević**, R. Andrečić Waldowski
- 10th FENS Forum of Neuroscience, Copenhagen, Denmark, 02.-06.07. 2016., "Defining the behavioral sensitization to psychostimulants in *Drosophila*", **A. Filošević**, I. Čoso, R. Andrečić Waldowski
- 6th Student Congress of Neuroscience, NeuRi 2016., Rijeka/Rab, Croatia, 22.-24. 04. 2016., "Characterizing short and long-term behavioral sensitization in *Drosophila*", **A. Filošević**, I. Čoso, R. Andrečić Waldowski
- "1st Instituto de Neurociencias PhD Student & Postdoc Meeting, Building Neuroscience: The future of a multidisciplinary field", Alicante, Spain, 18.-19. 02. 2016., "Influence of diet enriched with polyphenols on indicators of aging in *Drosophila melanogaster*", **A. Filošević**, R. Andrečić Waldowski
- 5th Croatian Congress of Neuroscience, Split, Croatia, 17.-19.09.2015., "Effect of polyphenol compounds on ageing in *Drosophila melanogaster*", A. Bolonja, **A. Filošević**, R. Andrečić Waldowski
- CroArtScia 2015. Symposium Technological innovations: atr & science, Zagreb, Croatia, 27.-30.05.2015., "Drosophila melanogaster as model organism in neurobiology of addiction - behavioral genetics approach", **A. Filošević**, R. Andrečić Wladowski
- 5th Student Congress of Neuroscience, NeuRi 2015., Rijeka/Rab, Croatia, 24.-26. 04.2015. "Development of a new high-throughput assay for behavioral sensitization to psychostimulants in *Drosophila melanogaster*", M. Badurina, **A. Filošević**, I. Odak, R. Andrečić Wladowski

Scientific papers

- Kraljević Pavelić S, Simović Medica S, Gumbarević D, **Filošević A**, Pržulj N, Pavelić K. (2018) Critical Review on Zeolite Clinoptilolite Safety and Medical Applications in vivo. *Frontiers in pharmacology*, <https://doi.org/10.3389/fphar.2018.01350> (Q1)
- **Filošević A**, Al-samarai S, and Andrečić Waldowski, R., (2017) High Throughput Measurement of Locomotor Sensitization to Volatilized Cocaine in *Drosophila melanogaster* *Front. Mol. Neurosci.* 11:25. doi: 10.3389/fnmol.2018.00025 (Q2)

- Kraljević Pavelić S, Micek V, **Filošević A**, Gumbarević D, Žurga P, Bulog A, Orčić T, Yamamoto Y, Preočanin T, Plavec J, Peter R, Petravić M, Vikić-Topić D, Pavelić K (2017) Novel, oxygenated clinoptilolite material efficiently removes aluminium from aluminium chloride-intoxicated rats in vivo, *Micropor Mesopor Mat*, DOI: 10.1016/j.micromeso.2017.04.062 (Q1)
- Rigo F., **Filošević A.**, Petrović M., Jović K. and Andrečić Waldowsk R., Locomotor sensitization modulates voluntary self-administration of methamphetamine in *D. melanogaster*, *Addiction Biology* 2020.

Student script

- N. Malatesti, A. Filošević, Organic chemistry practical for students of 2nd year in undergraduate program Biotechnology and Drug research at Department of Biotechnology

Science popularization projects

- 20.-27.07.2017. Višnjan Scientific and Educational center/Astronomical Society Višnjan, mentor at Youth Science Camp 3 for 7th and 8th grade Primary school talented students on project "Coffee addiction in *Drosophila melanogaster*"
- 2014.-2018. Tetragon and "Department Open Day", as a part of "Festival znanosti" project, manager of Department budget, organization and preparation of students to perform chemical experiments and coordination of administrative duties at Department of Biotechnology
- 21.03.2017. FameLab finalist in Croatia organized by British Council Croatia, presentation of scientific theme in terms of science popularizing
- 2013., 2018. And 2019. Researchers' Night, Rijeka, Croatia, Project financed through FP7 EU funds Coordinator of Department activities and active participant