

## Dr. Peter Šramel

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## Education

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- 2014 – 2017 “Co-tutelle” PhD Degree in Organic and Medicinal Chemistry (Title of the Thesis: *Synthèse et Screening Biologique d’Inhibiteurs de Tyrosine Kinase, KDR, conçus in silico*), ECPM, University of Strasbourg, France
- 2013 – 2017 PhD Degree in Organic Chemistry (Title of the Thesis: *A Synthesis and Biological Screening of Predicted Inhibitors of Tyrosine Kinases, e.g. KDR*), Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia
- 2015 Training School, COST Action CM1106: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, Universidade de Lisboa, Lisbon, Portugal
- “X EWDD” 10<sup>th</sup> European Workshop in Drug Design, University of Siena, Italy
- 2011 – 2013 MSc Degree in Organic and Bioorganic Chemistry (Title of the Thesis: *Synthesis of 2-(5-(ethylsulfonyl)-2-methoxyphenylamino) oxazole-5-karbaldehyde and Its Use for the Preparation of an Angiogenic Inhibitor*), Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia
- 2008 – 2011 BSc Degree in Biochemistry (Title of the Thesis: *Design of Synthesis of Precursor for Angiogenic Inhibitor Based on 5-Ethynyl-N-(5-(ethylsulfonyl)-2-methoxyphenyl) oxazole-2-amine*), Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia

## Work (Research) Experience

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- 2021 – Present Scientific assistant in the group of prof. Radovan Šebesta, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia
- 2019 – Present Scientist in the group of Dr. Magdaléna Májeková, Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, Slovakia (part-time job)
- 2018 – 2020 Scientific assistant in the group of assoc. prof. Andrej Boháč, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia

2011, 2013 Chemist / Synthesist (synthesis of carbohydrate-based derivatives), SynthCluster, Ltd., Bratislava, Slovakia (summer job)

## Grants and Awards

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2017 PDI (“Programme Doctoral International”) Bridge Scholarship, France

2017 Comenius University Grant for Young Researchers, Slovakia

2014 Comenius University Grant for Young Researchers, Slovakia

2013 Rectors Academic Award for Excellent Fulfillment of Study Duties, Slovakia

## Teaching Experience

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2013 – Present Supervisor of BSc Theses (3 students) and MSc Theses (5 students)

2013 – Present Lecturer of undergraduate level courses Laboratory Exercises in Organic Chemistry and Advanced Laboratory Exercises in Organic Chemistry at Comenius University in Bratislava, Slovakia

2013 – 2016 Lecturer of undergraduate level course Advanced Laboratory Technique at ECPM, University of Strasbourg, France

## Conferences

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2018 Member of organizer staff on 50<sup>th</sup> International Chemistry Olympiad (IChO) in Slovakia and Czech Republic

2014 – 2018 Active participation (short speech or poster presentation) on 3 scientific conferences organized by The Paul Ehrlich Euro-PhD Network in Czech Republic, Austria, and Portugal

2014 – 2016 Active participation (short speech or poster presentation) on 3 scientific conferences organized by COST in Hungary and Greece

2015 Member of organizer staff on XXI EuCheMS International Conference on Organometallic Chemistry, Comenius University in Bratislava, Slovakia

2013 Active participation (poster presentation) on The Student Scientific Conference on Biotechnology and Biomedicine in Brno, Czech Republic

## Publications

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2020 Hlaváč, M.; Kováčiková, L.; Prnová Šoltéssová, M.; Šramel, P.; Addová, G.; Májčková, M.; Hanquet, G.; Boháč, A.; Štefek, M. Development of Novel Oxotriazinoindole Inhibitors of Aldose Reductase: Isosteric Sulfur / Oxygen Replacement in the Thioxotriazinoindole Cementirestat Markedly Improved Inhibition Selectivity. *J. Med. Chem.* **2020**, *63*, 369 – 381.

2017 Murár, M.; Dobiaš, J.; Šramel, P.; Addová, G.; Hanquet, G.; Boháč, A. Novel CLK1 Inhibitors Based on *N*-Aryloxazol-2-amine Skeleton – A

Possible Way to Dual VEGFR2 TK / CLK Ligands. *Eur. J. Med. Chem.* **2017**, *126*, 754 – 761.

Kahraman, D. K.; Hanquet, G.; Jeanmart, L.; Lanners, S.; Šramel, P.; Boháč, A.; Cetin-Atalay, R. Quinoides and VEGFR2 TKIs Influence the Fate of Hepatocellular Carcinoma and Its Cancer Stem Cells. *Med. Chem. Commun.* **2017**, *8*, 81 – 87.

## Skills and Abilities

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**Professional:** Development of bioactive organic compounds including: intelligent structural design by interaction analysis of protein/ligand complexes from PDB, resp. from *in silico* screening and subsequent performance of corresponding syntheses

Synthesis of target organic compounds including: effective utilization of scientific databases, e. g. Reaxys, SciFinder, independent synthetic design and reaction optimization (experience in: synthesis of heterocyclic compounds, cyclization reactions, transition-metal catalyzed coupling reactions, e. g. Stille, Suzuki, Sonogashira, functional groups transformation, synthesis of carbohydrate derivatives...)

Purification of prepared compounds using standard and advanced laboratory techniques (chromatography, FLC, HPLC, crystallization, trituration...)

Structure determination of prepared compounds by 1D and 2D NMR, IR and UV-VIS spectroscopy, MS, and X-Ray spectrometry...

**Organizational:** Skilled scientist with experience in laboratory management, independent project design and supervision / education of students and young scientists

**Language:** Slovak (Mother Tongue / First Language), Czech (Advanced), English (Advanced), French (Beginner), German (Beginner)

**Computer:** MS Windows (7, 8, 10), MS Office (Word, Excel, PowerPoint, Note, Outlook), ChemBioDraw Ultra, Spartan, Biovia Discovery Studio, YASARA, MOE, HyperChem Professional, Mercury, Nuts NMR, Mnova NMR