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IMTM, Faculty of Medicine and Dentistry,
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Czech Republic

EDUCATION

- 2012, Jan. **Assoc. Prof. Organic Chemistry**, Palacky University Olomouc – Czech Republic, Faculty of Science, Dept. of Organic Chemistry;
- 2006, Sep. **Ph.D. Organic Chemistry**, Palacky University Olomouc – Czech Republic, Faculty of Science, Dept. of Organic Chemistry; Advisor: Prof. Jan Hlavac
- 2002, July **MSc. Organic Chemistry**, Palacky University Olomouc – Czech Republic, Faculty of Science, Dept. of Organic Chemistry; Advisor: Prof. Jan Hlavac

RESEARCH EXPERIENCE

Senior researcher: Jan. 2012 – Present. Institute of Molecular and Translational Medicine, Program of Medicinal Chemistry: Supervisor of a research group responsible for development of strategies for solid-phase/solution phase synthesis of various pharmacologically promising substances.

Assistant professor: Jan. 2008 – Dec. 2011. Department of Organic Chemistry, Palacky University Olomouc. Preparation and study of selected heterocycles with particular focus on quinolinone derivatives (analogues of flavonols). Design of strategies for high-throughput synthesis of target compounds and application of synthetic routes for development of new anticancer agents. Search for candidates with submicromolar cytotoxicity and selectivity towards various cancer cells.

Research Associate - Postdoc: Jan. – Dec. 2007. Department of Chemistry and Biochemistry, Notre Dame University (IN, USA); Advisor: **prof. Viktor Krchnak**. Development of strategies for solid-phase combinatorial synthesis of heterocycles; Synthesis of chemical libraries of selected bisheterocyclic compounds based on benzimidazol scaffold; Development of new carriers for combinatorial synthesis on solid-phase (resin capsules).

Researcher (Ph.D.): Sep. 2002– Dec. 2006. Department of Organic Chemistry, Palacky University Olomouc. Traditional solution-phase synthesis of selected quinolinone derivatives and evaluation of their cytotoxicity against various cancer cells.

FELDS OF INTEREST: Solid-phase synthesis, combinatorial chemistry, solution-phase synthesis, medicinal chemistry, heterocyclic chemistry.

PUBLICATIONS

49 original, reviewed and impacted articles (including 2 chapters in book). First or corresponding author: 27 times, 247 citations, H-index 9.

1. Fülöpová, V.; **Soral, M.** *Synthesis* **2016**, Ahead of Print, DOI: 10.1055/s-0035-1562519
2. Krajčovičová, S.; **Soral, M.** *ACS Comb. Sci.* **2016**, 18(7), 371-386.
3. Trapani, P.; Volná, T.; Soral, M. *ACS Comb. Sci.* **2016**, 18(6), 349-354.
4. **Soral, M.**; Hodon, J.; Dickinson, N. J.; Sidova, V.; Gurska, S.; Dzubak, P.; Hajduch, M.; Sarek, J.; Urban, M. *Bioconjug. Chem.* **2015**, 26(12), 2563-2570.
5. Fülöpová, V.; **Soral, M.** *ACS Comb. Sci.* **2015**, 17(10), 570-591.
6. Buzgo, M.; Greplová, J.; **Soral, M.**; Bezděková, D.; Míčková, A.; Kofroňová, O.; Benada, O.; Hlaváč, J.; Amler, E. *Polymer* **2015**, 17(7), 426-432.
7. Lemrová, B.; **Soral, M.** *Eur. J. Org. Chem.* **2015**, 2015, 9, 1869-1886.
8. Rylova, G.; Ozdian, T.; Varanasi, L.; **Soral, M.**; Hlavac, J.; Holub, D.; Dzubak, P.; Hajduch, M. *Curr. Drug Targets* **2015**, 16, 1, 60-76.

9. Frömmel, J.; Šebela, M.; Demo G.; Lenobel, R.; Pospíšil, T.; **Soural, M.**; Kopečný, D. *Amino Acids* **2015**, 47, 1, 175-187.
10. Funk, P.; Motyka, K.; Džubák, P.; Znojek, P.; Gurská, S.; Kusz, J.; McMaster, C.; Hajdúch, M.; **Soural, M.** *RSC Adv.* **2015**, 5, 48861-48867.
11. Fülöpová, V.; Funk, P.; Popa, I.; McMaster, C.; **Soural, M.** *Eur. J. Org. Chem.* **2015**, 2015, 16, 3551-3557.
12. Vanda, D.; Jorda, R.; Lemrová, B.; Volná, T.; Kryštof, V.; McMaster, C.; **Soural, M.** *ACS Comb. Sci.* **2015**, 17, 7, 426-432.
13. Messina, I.; Popa, I.; Maier, M.; **Soural, M.** *ACS Comb. Sci.* **2014**, 16(1) 33-38.
14. Kadric, J.; Motyka, K.; Džubák, P.; Hajdúch, M.; **Soural, M.** *Tetrahedron Lett.* **2014**, 55(26) 3592-3595.
15. McMaster, C.; Fülöpová, V.; Popa, I.; Grepl, M.; **Soural, M.** *ACS Comb.Sci.* **2014**, 16(5), 221-224
16. Hartmanová, L.; Fryčák, P.; **Soural, M.**; Tureček, F.; Havlíček, V.; Lemr, K. *J. Mass Spectrom.* **2014**, 49(8), 750–754.
17. Lemrová, B.; Smyslová, P.; Popa, I.; Oždian, T.; Zajdel, P.; **Soural, M.** *ACS Comb. Sci.* **2014**, 16(10) 558-565.
18. Kopečný D., Koncitikova R., Tylichova M., Vigouroux A., Moskalikova H.; **Soural M.**, Sebela M., Morera S. Plant ALDH10 Family, *J. Biological Chem.* **2013**, 288(13), 9491-9507.
19. Krupkova S., Funk P., **Soural M.**, Hlavac J. *ACS Comb.Sci.* **2013**, 15(1), 20-28.
20. Fulopova V., Gucky, T.; Grepl M.; **Soural M.** *ACS Comb. Sci.* **2012**, 14(12), 651-656.
21. Lemrova B.; **Soural M.** *ACS Comb. Sci.* **2012**, 14(12), 645-650.
22. **Soural M.**, Hradil P., Krupkova S., Hlavac J. *Mini-Rev. Org. Chem.* **2012**, 9(4), 426-432.
23. Hlavac J., **Soural M.**, Krchnak V. Practical Aspects of Combinatorial Solid-Phase Synthesis - book chapter in *Solid-Phase Organic Synthesis: Concepts, Strategies, and Applications*, edited by Toy, P. H. and Lam, Y.; Wiley & Sons, Inc., 95-130, **2012**.
24. Frömmel J., **Soural M.**, Tylichová M., Kopečný D., Demo G., Wimmerová M., Šebela M. *Amino Acids* **2011**, 43(3), 1189-1202.
25. Cankarova N., Funk P., Hlavac J., **Soural M.** *Tetrahedron Lett.* **2011**, 52, 5782-5788.
26. Motyka K., Vankova B., Hlaváč J., **Soural M.** *J. Fluorescence* **2011**, 21(6), 2207-2212.
27. Merova B., Ondra P., Stankova M., **Soural M.**, *J. Chromatogr. B* **2011**, 879, 2549– 2553.
28. Vankova B., Krchňák V., **Soural M.**, Hlavac J. *ACS Comb. Sci.* **2011**, 13(5), 496-500.
29. **Soural M.**, Hlavac J., Funk P., Dzubak P., Hajduch M. *ACS Com. Sci.* **2011**, 13 (1), 39-44.
30. Motyka K., Hlaváč J., **Soural M.**, Hradil P., Krejčí P., Kvapil L., Weiss M. *Tetrahedron Lett.* **2011**, 52 (6), 715-717.
31. Vankova B., Hlavac J., **Soural M.** *J. Comb.Chem.* **2010**, 12 (6), 890-894.
32. **Soural M.**, Hlavac J., Krchnak V. Linkers for Solid-Phase Peptide Synthesis – book chapter in *Amino Acids, Peptides and Proteins in Organic Chemistry Vol.3-Building Blocks, Catalysis and Coupling Chemistry*, edited by A. Hughes, WILEY-VCH Verlag GmbH & Co. KGaA, 273-312, **2010**.
33. Motyka K., Hlavac J., **Soural M.**, Funk P., *Tetrahedron Lett.* **2010**, 51 (38), 5060-5063.
34. **Soural M.**, Funk P., Kvapil L., Hradil P., Hlavac J., Bertolasi V. *Arkivoc* **2010**, (10), 255-265.
35. Vičar J., **Soural M.**, Hlaváč J. *Chemical Papers* **2010**, 104, 51-53.
36. **Soural M.**, Hlavac, J., Hradil, P., Hajduch M. *Eur. J. Org. Chem.* **2009**, 3867-3870.
37. Krupkova S., **Soural M.**, Hlavac J., Hradil P., *J. Comb.Chem.* **2009**, 11(6), 951-955.
38. Hradil P., Hlaváč J., **Soural M.**, Hajdúch M., Kolář M., Večeřová R., *Mini-Rev. Med. Chem.* **2009**, 9(6), 696-702.
39. Bouillon I., **Soural, M.**, Marvin M., Krchnak V. *J. Comb.Chem.* **2009**, 11(2), 213-215.
40. **Soural M.**, Bouillon I., Krchnak V. *J. Comb. Chem.* **2008**, 10 (6), 923-933
41. Bouillon I., **Soural M.**, Krchnak V. *J. Comb. Chem.* **2008**, 10(5), 714-720
42. Styskala J., Cankar P., **Soural M.**, Bednar, P., Lemr, K. **2008**, *J. Lab. Compd. Radiopharm.* 51(1), 19-22.
43. **Soural M.**, Krchnak V. *J.Comb.Chem* **2007**, (5), 793-796.
44. Styskala J., Cankar P., **Soural M.**, Hlavac J., Hradil P., Vicar J., Simanek V. *Heterocycles* **2007**, 73, 769-775
45. Styskala J., Cankar P., **Soural M.**, Bednar P., Lemr K. *Arkivoc* **2007**, (15), 171-180.
46. Spacilova L., Hlavac J., Hradil P., Frysova I., Malon M.; **Soural M.**; Krejci P. *J. Heterocyclic Chem.* **2006**, 43(4), 1065-1070.
47. Hradil P., Grepl M., Hlavac J., **Soural M.**, Malon M., Bertolasi V. *J. Org. Chem.* **2006**, 71(2), 819-822.
48. **Soural M.**, Hlavac J., Hradil P., Frysova I., Hajduch M., Bertolasi V., Malon M. *Eur. J. Med. Chem.* **2006**, 41(4), 467-474.
49. Hlavac J., **Soural M.**; Hradil P.; Frysova I., Slouka J. *J. Heterocyclic Chem.* **2004**, 41(4), 633-636.

Patents:

Soural M.; Hlavac J.; Hradil P. Czech Rep. (2011), CZ 302510 B6 20110622.

Soural, M.; Hlavac, J.; Hradil, P., Czech Rep. (2011), CZ 302669 B6 20110824

Soural, M.; Hlavac J.; Hradil, P., Czech Rep. (2014), CZ 304527 B6 20140618