

LIST OF PUBLICATIONS

Dr. Vladimir Chobot

Refereed journals

1. **Chobot, V.**, Hadacek, F., Weckwerth, W., Kubicova, L.: Pro- and antioxidant activity of three selected flavan type flavonoids: Catechin, eriodictyol and taxifolin. *Int. J. Mol. Sci.* **17**, 2016, 1986.
2. **Chobot, V.**, Hadacek, F., Weckwerth, W., Kubicova, L.: Iron chelation and redox chemistry of anthranilic acid and 3-hydroxyanthranilic acid: A comparison of two structurally related kynurenine pathway metabolites to obtain improved insights into their potential role in neurological disease development. *J. Organomet. Chem.* **782**, 2015, 103–110.
3. Kubicova, L., Hadacek, F., Weckwerth, W., **Chobot, V.**: Effects of endogenous neurotoxin quinolinic acid on reactive oxygen species production by Fenton reaction catalyzed by iron or copper. *J. Organomet. Chem.* **782**, 2015, 111–115.
4. **Chobot, V.**, Hadacek, F., Kubicova, L.: Effects of selected dietary secondary metabolites on reactive oxygen species production caused by iron(II) autoxidation. *Molecules* **19**, 2014, 20023–20033.
5. Kubicova, L., Hadacek, F., **Chobot, V.**: Quinolinic acid: neurotoxin or oxidative stress modulator? *Int. J. Mol. Sci.* **14**, 2013, 21328–21338.
6. **Chobot, V.**, Kubicova, L., Bachmann, G., Hadacek, F.: Versatile redox chemistry complicates antioxidant capacity assessment: Flavonoids as milieu-dependent anti- and pro-oxidants. *Int. J. Mol. Sci.* **14**, 2013, 11830–11841.
7. Hadacek, F., Bachmann, G., Engelmeier, D., **Chobot, V.**: Hormesis and a chemical raison d'être for secondary plant metabolites. *Dose-Response* **9**, 2011, 79–116.
8. **Chobot, V.**, Drage, S., Hadacek, F.: Redox properties of 8-quinolinol and implications for its mode of action. *Nat. Prod. Commun.* **6**, 2011, 597–602.
9. Hadacek, F., **Chobot, V.**: New synthesis–systems chemical ecology. *J. Chem. Ecol.* **37**, 2011, 1165.

10. **Chobot, V.**, Hadacek, F.: Exploration of pro-oxidant and antioxidant activities of the flavonoid myricetin. *Redox Rep.* **16**, 2011, 242–247.
11. **Chobot, V.**, Hadacek F.: Iron and its complexation by phenolic cellular metabolites. *Plant Signal. Behav.* **5**, 2010, 4–8.
12. **Chobot, V.:** Simultaneous detection of pro- and antioxidative effects in the variants of the deoxyribose degradation assay. *J. Agric. Food Chem.* **58**, 2010, 2088–2094.
13. Kameník, Z., Hadacek, F., Marečková, M., Ulanova, D., Kopecký, J., **Chobot, V.**, Plháčková, K., Olšovská J.: Ultra-high-performance liquid chromatography fingerprinting method for chemical screening of metabolites in cultivation broth. *J. Chrom. A* **1217**, 2010, 8016–8025.
14. **Chobot, V.**, Huber, C. Trettenhahn, G., Hadacek F.: (±)-Catechin: Chemical weapon, antioxidant or stress regulator? *J. Chem. Ecol.* **35**, 2009, 980–996.
15. **Chobot, V.**, Hadacek, F.: Milieu-dependent pro- and antioxidant activity of juglone may explain linear and nonlinear effects on seedling development. *J. Chem. Ecol.* **35**, 2009, 383–390.
16. **Chobot, V.**, Kubicová, L., Nabbout, S., Jahodář, L., Hadacek, F.: Evaluation of antioxidant activity of some common mosses. *Z. Naturforsch. C* **63c**, 2008, 476–482.
17. Opelt, V., **Chobot, V.**, Hadacek, F., Schönmann, S., Eberl, L., Berg, G.: Investigations of the structure and function of bacterial communities associated with *Sphagnum* mosses. *Environ. Microbiol.* **9**, 2007, 2795–2809.
18. **Chobot, V.**, Kubicová L., Nabbout, S., Jahodář, L., Vytlačilová, J.: Antioxidant and free radical scavenging activities of five moss species. *Fitoterapia* **77**, 2006, 598–600.
19. Hiltunen, L.H., Laakso, I., **Chobot, V.**, Hakala, K.S., Weckman, A., Valkonen, J.P.T.: Influence of thaxtomins in different combinations and concentrations on growth of micropropagated potato shoot cultures. *J. Agric. Food Chem.* **54**, 2006, 3372–3379.
20. **Chobot, V.**, Vytlačilová, J., Kubicová, L., Opletal, L., Jahodář, L., Laakso, I., Vuorela, P.: Phototoxic activity of a thiophene polyacetylene from *Leuzea carthamoides*. *Fitoterapia* **77**, 2006, 194–198.
21. **Chobot, V.**, Vytlačilová, J., Jahodář, L.: Phototoxic activity and the possibilities of its testing. *Cent. Eur. J. Publ. Health* **12**, 2004, Suppl., S31–S33.

22. Klečáková, J., **Chobot, V.**, Jahodář, L., Laakso, I., Víchová, P.: Antiradical activity of petals of *Philadelphus coronarius* L. *Cent. Eur. J. Publ. Health* **12**, 2004, Suppl., S39–S40.
23. Vytlačilová, J., **Chobot, V.**, Jahodář, L., Laakso, I., Vuorela, P.: *Tubifex tubifex* Müll. – photosensitive organism. *Cent. Eur. J. Publ. Health* **12**, 2004 Suppl., S89–S93.
24. Vytlačilová, J., **Chobot, V.**, Jahodář, L., Laakso, I., Vuorela, P.: Short-term phototoxicity screening with *Artemia salina*. *Chem. Inz. Ekol.* **11**, 2004, 1233–1237.
25. Vytlačilová J., Šustr M., **Chobot, V.**, Kubicová L., Jahodář, L., Vuorela P.: Toxicological evaluation of 2-hydroxy-*N*-phenylthiobenzamides by *Artemia* screening method. *Chem. Inz. Ekol.* **11**, 2004, 1239–1243.
26. Kubicová, L., Šustr, M., Králová, K., **Chobot, V.**, Vytlačilová, J., Jahodář, L., Vuorela, P., Macháček, M., Kaustová, J.: Synthesis and biological evaluation of quinazoline-4-thiones. *Molecules* **8**, 2003, 756–769.
27. **Chobot, V.**, Buchta, V., Jahodářová, H., Pour, M., Opletal, L., Jahodář, L., Harant, P.: Antifungal activity of a thiophene polyine from *Leuzea carthamoides*. *Fitoterapia* **74**, 2003, 288–290.
28. Bártlová, M., Opletal, L., **Chobot, V.**, Sovová, H.: Liquid chromatographic analysis of supercritical carbon dioxide extracts of *Schizandra chinensis*. *J. Chromatogr. B* **770**, 2002, 283–289.
29. **Chobot, V.**, Opletal, L., Jahodář, L., Patel, A.V., Dacke Ch.G., Blunden, G.: Ergosta-4,6,8,22-tetraen-3-one from the edible fungus *Pleurotus ostreatus* (Oyster Fungus). *Phytochemistry* **45**, 1997, 1669–1671.
30. Opletal, L., Jahodář, L., **Chobot, V.**, Žďánský, P., Lukeš, J., Brátová, M., Solichová, D., Blunden, G., Dacke, Ch.G., Patel, A.V.: Evidence for anti-hyperlipidaemic activity of the edible fungus *Pleurotus ostreatus*. *Br. J. Biomed. Sci.* **54**, 1997, 240–243.
31. **Chobot, V.**, Křemenák, J., Opletal, L.: Phytoterapeutic aspects of the circulatory system diseases 4. Chitin and Chitosan. *Česk. Slov. Farm.* **44**, 1995, 190–195.

Textbooks

Semecký, V., Jahodář, L., Dušková, J., **Chobot, V.**, Opletal, L., Sovová, M.: Set of questions for admission examination on Biology on Faculty of Pharmacy in Hradec Králové. Charles University, Faculty of Pharmacy, Hradec Králové 2001, 269 pp.

Patents

1. Kubicová, L., Sedlák, M., Šustr, M., Pravda, M., **Chobot, V.**, Skála, P., Buchta, V., Macháček, M., Waisser, K.: Antimycotic and antimycobacterial thiosalicylanilides and method for their preparation. Czech Pat. 297581, 2007.
2. Kubicová, L., Sedlák, M., **Chobot, V.**, Macháček, M.: Process for preparing thiosalicylamides, in particular thiosalicylanilides. Czech Pat. 298498, 2007.

Non-refereed journals and proceedings of conferences (no abstracts)

1. Vytlačilová, J., **Chobot, V.**, Jahodář, L.: Methodology of a phototoxicological screening using *Artemia salina*. Proc. of "Ecotoxicity Bioassays 4" (Kočí, V, Maršálek, B, Tlustá, P Edit.), Chrudim 2004, p. 211–213 (ISBN 80-86832-03-1).
2. Vytlačilová, J., **Chobot, V.**, Vuorela, P., Laakso, I., Jahodář, L.: The response of *Tubifex tubifex* to the photodynamic activity of two types of natural phototoxins. Proc. of 23rd International Symposium "Industrial Toxicology '03", Bratislava 2003, p. 307–309 (ISBN 80-968011-5-5).
3. Vytlačilová, J., **Chobot, V.**, Klečáková, J., Jahodář, L., Opletal, L., Pour, M.: *Tubifex tubifex*—a sensitive organism to the activity of phototoxins. *Folia Pharm. Univ. Carol.* **29-30**, 2003, p. 107–111.
4. Vytlačilová, J., **Chobot, V.**, Jahodář, L., Laakso, I., Vuorela, P.: *Tubifex tubifex* – possible model for phototoxicity testing. Proc. of "Ecotoxicity Bioassays 3" (Kočí, V, Maršálek, B., Halousková, O. Edit.), Brno 2003, p. 173–174 (ISBN 80-903203-6-8).
5. **Chobot, V.**, Stodůlka, P., Opletal, L.: Asian food mushrooms in the prevention of civilisation diseases. Proc. of the CADISO 98 (Opletal, L. Edit.), Faculty of Pharmacy Charles University, Hradec Králové 1998, p. 44–47 (ISBN 80-7184-710-0)
6. **Chobot, V.**, Opletal, L.: Some guaianolides of *Leuzea carthamoides* DC and their biological activity. Proc. of the CADISO 94 (Opletal, L. Edit.), Faculty of Pharmacy Charles University, Hradec Králové 1994, p. 66–68 (ISBN 80-7184-087-4).

7. Opletal, L., **Chobot, V.**, Křemenák, J.: Content substances of the species *Pleurotus ostreatus*. Proc. of the CADISO 92 (Opletal, L. Edit.), Faculty of Pharmacy Charles University, Hradec Králové 1992, p. 38–40.
8. **Chobot, V.**, Křemenák, J., Opletal, L.: Chitin and Chitosan: Reality or Myth? Proc. of the CADISO 92 (Opletal, L. Edit.), Faculty of Pharmacy Charles University, Hradec Králové 1992, p. 41–43.

Abstracts of selected conferences

1. **Chobot, V.**, Hadacek, F., Kubicova, L.: Anthranilic and 3-hydroxyanthranilic acids can affect oxidative stress level in the brain by interactions with iron. Book of Abstracts: 7th International Symposium on Bioorganometallic Chemistry, ISBOMC 2014, July 22–25 2014, Vienna, Austria, p. 55.
2. **Chobot, V.**, Hadacek, F., Kubicova, L.: Combination of electrochemical and chemical methods as powerful evaluation of pro- and antioxidant plant metabolites. Conference Book of DPhG Annual Meeting 2013, Drug Discovery inspired by Nature, October 9–11, Friburg, Germany, p. 141.
3. **Chobot, V.**, Hadacek, F.: Iron in complex with phenolic metabolites modulates plant stress response. Abstracts der 18. ATSPB – Tagung, Austrian Society of Plant Biology (ATSPB), June 3–5, 2010, Illmitz, Austria, p. 17.
4. **Chobot, V.**, Huber, C., Trettenhahn, G., Hadacek, F.: Redox equilibria and toxicity: Interaction of secondary metabolites with living organisms. Book of abstracts: 23rd International Society of Chemical Ecology annual meeting, July 22–26, 2007, Max-Planck-Institut für Chemische Ökologie, Jena, Germany, P112.
5. **Chobot, V.**, Vytlačilová, J., Kubicová, L.: Selected phototoxicological assays used for plant metabolites screening. 54th Annual congress on medicinal plant research, The Society for Medicinal Plant Research, August 29–September 2, 2006, University of Helsinki, Finland, S 023, *Planta Med.* **72**, 2006, 971.
6. **Chobot, V.**, Vytlačilová, J., Jahodář, L., Opletal, L.: Phototoxic activity of thiophene polyacetylene (*E*)-1-[5-(hept-5-en-1,3-diynyl)-2-thienyl]ethan-1,2-diol. Book of abstracts: Jahrestagung – Joint meeting 2004, Trilateral joint meeting of Czech Pharmaceutical Society,

Deutsche Pharmazeutische Gesellschaft, Österreichische Pharmazeutische Gesellschaft 2004, October 6–9, 2004, University of Regensburg, Germany, P B6 oral (ISBN 3-00-014723-3).

7. Vytlačilová, J., **Chobot, V.**, Jahodář, L., Kubicová, L.: Phototoxic properties of some halogenated salicylanilides. Book of abstracts: Jahrestagung – Joint meeting 2004, Trilateral joint meeting of Czech Pharmaceutical Society, Deutsche Pharmazeutische Gesellschaft, Österreichische Pharmazeutische Gesellschaft 2004, October 6–9, 2004, University of Regensburg, Germany, P P31oral (ISBN 3-00-014723-3).
8. Kubicová, L., Pravda, M., **Chobot, V.**, Vytlačilová, J., Macháček, M.: Synthesis and , phototoxicological screening of salicylanilides. Book of abstracts: 39th Conference – Advance in organic, bioorganic and pharmaceutical chemistry, Czech Chemical Society, November 26-28, 2004, Liblice, Czech republic, *Chem. Listy* **98**, 2004, 1023.
9. Jahodář, L., **Chobot, V.**, Jahodářová, H., Buchta, V.: Free radical scavenging activity and antifungal effect of bearberry extract in vitro. Book of abstracts: Pharmacy and pharmaceutical sciences world congress 2002, 62nd World congress of FIP, Nice, France, MCN-P-058.
10. **Chobot, V.**, Klečáková, J., Jahodář, L., Jahodářová, H., Vytlačilová, J., Pour, M., Buchta, V., Opletal, L.: Biological activity of thiophene polyine from *Leuzea carthamoides*. Book of abstracts: Lead compounds from higher plants. International symposium of the Phytochemical Society of Europe (PSE), September 12–14, 2001, University of Lausanne, Switzerland, P68.
11. Klečáková, J., **Chobot, V.**, Jahodář, L., Vytlačilová, J., Pour, M.: *Tubifex tubifex* worms-suitable organisms for testing biological activity of plant metabolites. Book of abstracts: Lead compounds from higher plants, International symposium of the Phytochemical Society of Europe (PSE), September 12–14, 2001, University of Lausanne, Switzerland, P143.