

Curriculum Vitae

Personal information Jaroslav Tóth

Work experience

1. Employer: Comenius University Bratislava, Faculty of Pharmacy
 - Start date: 10/1998
 - End date: current
 - Position: Associate Professor (previously: Assistant Professor)
 - Activities: University teaching (lectures, seminars, laboratory practise), academic research
 - Country: Slovakia
2. Employer: Comenius University Bratislava, Faculty of Pharmacy
 - Start date: 03/2013
 - End date: 03/2021
 - Position: Vice Dean of the Faculty
 - Activities: Vice Dean for Faculty's Development, for Cooperation with Practice, and for Information Technology
 - Country: Slovakia
3. Employer: Deutsches Krebsforschungszentrum Heidelberg (DKFZ) / German Cancer Research Center
 - Start date: 10/2001
 - End date: 12/2001
 - Position: Guest Scientist
 - Activities: Academic research
 - Country: Germany
4. Employer: Heidelberg University (Ruprecht-Karls-Universität Heidelberg), Institute of Pharmaceutical Biology
 - Start date: 10/1996
 - End date: 09/1998
 - Position: Guest Scientist
 - Activities: Academic research
 - Country: Germany

Education and training

1. Subject: Comenius University Bratislava, Faculty of Pharmacy
 - Start date: 10/1995
 - End date: 09/2002
 - Qualification: Doctor (PhD.) in Pharmacognosy
 - Organisation: Postgradual study in the study field Pharmacognosy (pharmaceutical sciences), academic research, university teaching; Dissertation Thesis: „Molecular modelling studies of the structure and properties of flavonoids.“
 - Country: Slovakia
2. Subject: Comenius University Bratislava, Faculty of Pharmacy
 - Start date: 09/1990
 - End date: 05/1995
 - Qualification: Master (Mgr.) in Pharmacy
 - Organisation: Training as a pharmacist (compliant to Directive 2005/36/EC on the recognition of professional qualifications)
 - Country: Slovakia

Additional information

Publications

PUBLIC AUTHOR PROFILES:

- [Tóth, Jaroslav - Author details - Scopus](#)
- [Jaroslav Tóth - Web of Science Researcher Profile](#)
- [Jaroslav Tóth \(0000-0002-6417-9586\) - ORCID](#)

BOOKS

- Tóth, Jaroslav: [Study of the structure and properties of flavonoids by molecular modelling methods. (In Slovak)] In: Pokroky vo farmácii 2 : Farmakognózia. Bratislava : Univerzita Komenského, 2008. P. 178-267 ISBN 978-80-223-2462-5
- Czige, Szilvia, Tóth, Jaroslav: [Phytopharmaceuticals and food - clinically significant interactions: for general practitioners. (In Slovak)] Bratislava : RAABE, 2016. 148 p. ISBN 978-80-8140-238-8

ARTICLES (selection)

- Tóth, Jaroslav - Remko, Milan - Nagy, Milan: Structural Study of Flavonoids and Their Protonated Forms. In: Zeitschrift für Naturforschung Section C - A Journal of Biosciences. - Vol. 51, No. 11-12 (1996), p. 784-790. - ISSN 0939-5075
- Tekelová, Daniela - Zemková, Erika - Repčák, Miroslav - Tóth, Jaroslav: Quantitative changes of dianthrone, hyperforin and flavonoids content in the flower ontogenesis of Hypericum perforatum. In: Planta Medica. - Vol. 66, No. 8 (2000), p. 778-780. - ISSN 0032-0943
- Hajnická, Valéria - Košťálová, Daniela - Švecová, Danka - Sochorová, Ružena - Fuchsberger, Norbert -

- Tóth, Jaroslav: Effect of Mahonia aquifolium active compounds on interleukin-8 production in the human monocytic cell line THP-1. In: *Planta Medica*. - Vol. 68, No. 3 (2002), p. 266-268. - ISSN 0032-0943
- Miadoková, Eva - Mašterová, Irena - Vičková, Viera - Dúhová, Viola - Tóth, Jaroslav: Antimutagenic potential of homoisoflavonoids from *Muscari racemosum*. In: *Journal of Ethnopharmacology*. - Vol. 81, No. 3 (2002), p. 381-386. - ISSN 0378-8741
 - Mrlanová, Mária - Tekelová, Daniela - Felklová, Melanie - Reinöhl, Vilém - Tóth, Jaroslav: The Influence of the Harvest Cut Height on the Quality of the Herbal Drugs *Melissae folium* and *Melissae herba*. In: *Planta Medica*. - Vol. 68, No. 2 (2002), p. 178-180. - ISSN 0032-0943
 - Volleková, Anna - Košťálová, Daniela - Kettmann, Viktor - Tóth, Jaroslav: Antifungal activity of Mahonia aquifolium extract and its major protoberberine alkaloids. In: *Phytotherapy Research*. - Vol. 17, No. 7 (2003), p. 834-837. - ISSN 0951-418X
 - Speijers, Gerrit - Bottex, Bernard - Dusemund, Birgit - Lugasi, Andrea - Tóth, Jaroslav - Amberg-Müller, Judith - Galli, Corrado L. - Silano, Vittorio - Rietjens, Ivonne M. C. M.: Safety assessment of botanicals and botanical preparations used as ingredients in food supplements: testing an European Food Safety Authority-tiered approach. In: *Molecular Nutrition & Food Research*. - Vol. 54, No. 2 (2010), p. 175-185. - ISSN 1613-4125
 - Czigle, Szilvia - Háznagy-Radnai, Erzsébet - Pintye-Hódi, Klára - Tóth, Jaroslav - Tekelová, Daniela - Máthé, Imre: Elemental analysis of Ginkgo biloba leaf samples collected during one vegetation period. In: *Natural Product Communications*. - Vol. 8, No. 8 (2013), p. 1153-1154. - ISSN 1934-578X
 - Slovák, Lukáš - Švik, Karol - Mihalová, Danica - Tóth, Jaroslav - Czigle, Szilvia - Pašková, Ľudmila - Bilka, František - Bauerová, Katarína: Ferulaldehyde improves the effect of methotrexate in experimental arthritis. In: *Molecules*. - Vol. 22, No. 11 (2017), art. no. 1911 [12 p.]. - ISSN 1420-3049
 - Czigle, Szilvia - Tóth, Jaroslav - Háznagy-Radnai, Erzsébet - Csupor, Dezső - Jedlinszki, Nikolett - Tekelová, Daniela: Ginkgo biloba food supplements on the European market - Adulteration patterns revealed by quality control of selected samples. In: *Planta Medica*. - Vol. 84, No. 6-7 (2018), p. 475-482. - ISSN (print) 0032-0943
 - Czigle, Szilvia - Héthelyi, B. Éva - Háznagy-Radnai, Erzsébet - Máthé, Imre - Tóth, Jaroslav: Analysis of Volatile Constituents of Ginkgo Leaf. In: *Natural Product Communications*. - Vol. 14, No. 6 (2019), p. 332-339. - ISSN (print) 1934-578X
 - Koutsoulas, Antonios - Carnećá, Martina - Slanina, Jiří - Tóth, Jaroslav - Slaninová, Iva: Characterization of Phenolic Compounds and Antiproliferative Effects of *Salvia pomifera* and *Salvia fruticosa* Extracts. In: *Molecules*. - Vol. 24, No. 16 (2019), p. [1-18], art. no. 2921. - ISSN (online) 1420-3049
 - Czigle, Szilvia - Barkociová, Michaela - Héthelyi, B. Éva - Pallag, Annamária - Böszörményi, Andrea - Koutsoulas, Antonios - Tóth, Jaroslav - Mućaji, Pavel: Potentially bioactive volatile compounds of some Epiphyllum, Hylocereus and Opuntia species (Cactaceae family) cultivated in Central Europe and their HS-SPME GC-MS analysis. In: *Farmacia*. - Vol. 68, No. 5 (2020), p. 864-869. - ISSN (print) 0014-8237
 - Czigle, Szilvia - Barkociová, Michaela - Sovány, Tamás - Regdon, Géza - Háznagy-Radnai, Erzsébet - Tóth, Jaroslav: Elemental analysis of Epiphyllum, Hylocereus and Opuntia (Cactaceae) fruits by energy-dispersive X-ray fluorescence microanalysis. In: *Chemické listy*. - Vol. 114, No. 10 (2020), p. 680-685. - ISSN (print) 0009-2770
 - Barkociová, Michaela - Tóth, Jaroslav - Sutor, Katarzyna - Drobnicka, Natalia - Wybraniec, Sławomir - Dudík, Boris - Bilková, Andrea - Czigle, Szilvia: Betalains in Edible Fruits of Three Cactaceae Taxa Epiphyllum, Hylocereus, and Opuntia Their LC-MS/MS and FTIR Identification and Biological Activities Evaluation. In: *Plants-Basel*. - Vol. 10, No. 12 (2021), p. [1-15], art. no. 2669. - ISSN (online) 2223-7747
 - Chrastina, Martin - Poništ, Silvester - Tóth, Jaroslav - Czigle, Szilvia - Pašková, Ľudmila - Vyletelová, Veronika - Švik, Karol - Bauerová, Katarína: Combination Therapy of Carnosic Acid and Methotrexate Effectively Suppressed the Inflammatory Markers and Oxidative Stress in Experimental Arthritis. - DOI 10.3390/molecules27207115. - In: *Molecules*. - Vol. 27, No. 20 (2022), art. no. 7115, p. [1-16]
 - Czigle, Szilvia - Bittner Fialová, Silvia - Tóth, Jaroslav - Mućaji, Pavel - Nagy, Milan: Treatment of Gastrointestinal Disorders - Plants and Potential Mechanisms of Action of Their Constituents. - DOI 10.3390/molecules27092881 - In: *Molecules*. - Vol. 27, No. 9 (2022), art. no. 2881, p. [1-35]
 - Mammari, Nour - Albert, Quentin - Devocelle, Marc - Kenda, Maša - Kočevár Glavač, Nina - Sollner Dolenc, Marija - Mercolini, Laura - Tóth, Jaroslav - Nagy, Milan - Czigle, Szilvia - Varbanov, Mihail: Natural Products for the Prevention and Treatment of Common Cold and Viral Respiratory Infections. - DOI 10.3390/ph16050662. - In: *Pharmaceuticals*. - Vol. 16, No. 5 (2023), art. no. 662, p. [1-25]
 - Pourouva, Jana - Dias, Patricia - Pour, Milan - Bittner Fialová, Silvia - Czigle, Szilvia - Nagy, Milan - Tóth, Jaroslav - Balázs, Viktória L. - Horváth, Adrienn - Csikós, Eszter - Farkas, Ágnes - Horváth, Györgyi - Mladěnka, Přemysl: Proposed mechanisms of action of herbal drugs and their biologically active constituents in the treatment of coughs: an overview. - DOI 10.7717/peerj.16096. - In: *PeerJ*. - Vol. 11, No. October 4 (2023), art. no. e16096, p. [1-57]
 - Czigle, Szilvia - Nagy, Milan - Mladěnka, Přemysl - Tóth, Jaroslav: Pharmacokinetic and pharmacodynamic herb-drug interactions - part I. Herbal medicines of the central nervous system. - DOI 10.7717/peerj.16149. - In: *PeerJ*. - Vol. 11, No. November 15 (2023), art. no. e16149, p. [1-51]
 - Bencsik, Tímea - Balázs, Viktória L. - Farkas, Ágnes - Csikós, Eszter - Horváth, Adrienn - Ács, Kamilla - Kocsis, Marianna - Doseděl, Martin - Bittner Fialová, Silvia - Czigle, Szilvia - Nagy, Milan - Tóth, Jaroslav - Protti, Michele - Mercolini, Laura - Mladěnka, Přemysl - Szentpéteri, József - Horváth, Györgyi: Herbal drugs in chronic venous disease treatment: An update. - DOI 10.1016/j.fitote.2024.106256 - In: *Fitoterapia*. - Vol. 179 (2024), art. no. 106256, p. [1-16].
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 - Černáková, Marta - Košťálová, Daniela - Kettmann, Viktor - Poldová, Miriam - Tóth, Jaroslav - Dřímál, Ján: Potential Antimutagenic Activity of Berberine, a Constituent of Mahonia aquifolium. In: *BMC Complementary and Alternative Medicine*. - Vol. 2, No. 2 (2002), p. 1-6
 - Mašterová, Irena - Woldemichael, G.M. - Tóth, Jaroslav - Ubik, K.: Lipophilic Constituents of the Twigs of *Staphylea holocarpa* Hemsl. In: *Herba Polonica*. - Vol. 48, No. 2 (2002), p. 94-97. - ISSN 0018-0599
 - Urbančíková, M. - Mašterová, Irena - Tóth, Jaroslav: Estrogenic / antiestrogenic activity of homoisoflavonoids from bulbs of *Muscari racemosum* (L.) Miller. In: *Fitoterapia*. - Roč. 73, č. 7-8 (2002), p. 724-726. - ISSN 0367-326X
 - Czigle, Szilvia - Háznagy-Radnai, Erzsébet - Tóth, Jaroslav - Máthé, Imre - Grančai, Daniel: Rosmarinic acid in the genus *Stachys* L. In: *Revista de Medicina si Farmacie*. - Vol. 53, No. 1-2 (2007), p. 343-346. - ISSN 1221-2229
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 - EFSA Scientific Cooperation (ESCO) Working Group on Botanicals and Botanical Preparations: Advice on the EFSA guidance document for the safety assessment of botanicals and botanical preparations intended for use as food supplements, based on real case studies on request of EFSA. EFSA Scientific Cooperation (ESCO) Report. In: *EFSA Journal*. - Vol. 7, No. 9 (2009), p. [1-104; Art. no.280]. - ISSN 1831-4732
 - EFSA Scientific Cooperation (ESCO) Working Group on Botanicals and Botanical Preparations: Compendium of botanicals that have been reported to contain toxic, addictive, psychotropic or other substances of concern on request of EFSA. EFSA Scientific Cooperation (ESCO) Report. In: *EFSA Journal*. - Vol. 7, No. 9 (2009), p. [1-100; Art. no.281]. - ISSN 1831-4732
 - Scientific Opinion on the evaluation of the safety in use of Yohimbe (*Pausinystalia yohimbe* (K. Schum.) Pierre ex Beille). In: *EFSA Journal*. - Vol. 11, No. 7 (2013), p. [1-46; Art. no. 3302]. - ISSN 1831-4732
 - Scientific Opinion on safety evaluation of Ephedra species for use in food. In: *EFSA Journal*. - Vol. 11, No. 11 (2013), p. [1-79; Art. no. 3467]. - ISSN 1831-4732
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- Farhat, Marina - Tóth, Jaroslav - Héthelyi, B. Éva - Szarka, Sz. - Czige, Szilvia: Analysis of the essential oil compounds of Origanum syriacum L. In: Acta Facultatis Pharmaceuticae Universitatis Comenianae. - Vol. 59, No. 2 (2012), p. 6-14. - ISSN 0301-2298
- Tekelová, Daniela - Bittner Fialová, Silvia - Tóth, Jaroslav - Czige, Szilvia: Phenolic compounds in leaves insertions of Mentha x villosa Huds. cv. Snežná. In: Česká a slovenská farmacie. - Vol. 65, No. 4 (2016), p. 161-165. - ISSN 1210-7816
- Tekelová, Daniela - Tóth, Jaroslav - Czige, Szilvia - Koutsoulas, Antonios: Hydroxycinnamic derivatives content in plant organs linked to harvest time of Salvia officinalis L. cv. 'Krajová'. In: Acta Facultatis Pharmaceuticae Universitatis Comenianae. - Vol. 62, No. 1 (2015), p. 40-46. - ISSN 1338-6786
- Tóth, Jaroslav - Mrlanová, Mária - Tekelová, Daniela - Koreňová, Marcela: Rosmarinic Acid - An Important Phenolic Active Compounds of Lemon balm (Melissa officinalis L.). In: Acta Facultatis Pharmaceuticae Universitatis Comenianae, Vol. 50. (2003). - p. 139-146. - ISBN 80-223-1879-5
- Tóth, Jaroslav - Remko, Milan - Nagy, Milan: The ability of molecular modeling methods to reproduce the structure of flavonoids. In: Acta Facultatis Pharmaceuticae Universitatis Comenianae, Vol. 52. (2005). - p. 218-225. - ISBN 80-223-2114-1

Projects

- Grant VEGA 2/0126/23 "Pharmacological intervention in the treatment of cachexia by administration of natural extracts (*Crocus sativus* and *Ginkgo biloba*) and substances (melitin, safranin, crocin, kaempferol and isorhamnetin) in combination with methotrexate and dexamethasone in an animal model of inflammatory cachexia." Co-investigator;
- Grant APVV-15-0308 „Molecular-pharmacological approaches to innovative therapy of rheumatoid arthritis evaluated under experimental conditions *in vivo* and *in vitro*." Co-investigator;
- Project 2020-1-CZ01-KA203-078218, ERASMUS+ KA203 Strategic partnership „Open access Educational Materials On Naturally Occurring Molecules - sources, biological activity and use (OEMONOM)." Co-investigator;
- Grant VEGA 2/0115/19 „New approaches to the treatment of cachexia, inflammation and oxidative stress in experimental arthritis: The effect of various plant extracts of olive leaves, *Rhodiola rosea*, *Tribulus terrestris* and extra virgin olive oil." Co-investigator;
- Grant VEGA 1/0359/18 „Possibilities of influencing some important factors in the etiopathogenesis of type 2 diabetes by plant extracts." Co-investigator;
- Grant VEGA 2/0044/15 "Study of the influence of inflammation, chronic autoimmune response and redox regulation of the organism in experimental arthritis using new agents for the adjuvant therapy of rheumatoid arthritis." Co-investigator.

Memberships

- Acquired 2009: Independent researcher (Scientific qualification level IIa) – Slovak Academy of Sciences, Bratislava, Slovakia;
- 2007 – 2009: Nominated member (national expert): EFSA Scientific Cooperation (ESCO) Working Group on Botanicals and Botanical Preparations – European Food Safety Authority (EFSA) – Scientific Committee, Parma, Italy;
- 2012 – 2013: Invited member (external expert): Working Group on Botanicals in Food – European Food Safety Authority (EFSA) – ANS (Scientific Panel on Food Additives and Nutrient Sources Added to Food), Parma, Italy;
- 2007 – current: Member of the National Expert Scientific Group of the National Focal Point for Cooperation with the European Food Safety Authority (EFSA) – Ministry of Agriculture and Rural Development of the Slovak Republic;
- 1996 – current: Slovak Pharmaceutical Society at the Slovak Medical Association;
- 1996 – current: Slovak Chemical Society;
- 2007 – current: member of the editorial board of the professional magazine "Medicinal Plants";
- 2009 – current: Member of the Council of Higher Education Institutions of the Slovak Republic (representing the Faculty);

Other Relevant Information

Popularization of science: regular guest on live television, interviews and podcasts for radio and daily press on the subject of medicinal plants, natural remedies, (traditional) herbal medicinal products, herbal/botanical food supplements.