

PERSONAL INFORMATION

Frantisek Drafi

WORK EXPERIENCE

September 2017–Present

SK member of the Committee for Medicinal Products for Human Use (CHMP) of the European Medicines Agency (EMA)

European Medicines Agency, London (United Kingdom)

Member for Slovakia, SK rapporteur, scientific assessor.

September 2017–Present

Clinical and non-clinical scientific assessor

State Institute for Drug Control (SIDC) - Štátny ústav pre kontrolu liečiv (ŠÚKL) - Bratislava (Slovakia)

Scientific assessor at the Non-clinical and Clinical Assessment Department; regulatory affairs.

September 2012–Present

Senior Research Fellow

Slovak Academy of Science, Centre of Experimental Medicine, organisation unit - Institute of Experimental Pharmacology & Toxicology, Bratislava (Slovakia)

The main interest is focused on the pre-clinical research and study of chronic diseases with emphasis on pro-inflammatory processes with the aim to develop new medical principles. Pharmacodynamic, pharmacokinetic as well as toxicological mechanisms of action of biologically active substances with anti-inflammatory and anti-radical properties are investigated at an animal body, organ, and molecular levels. Writing scientific papers, book chapters. Supervision of students of pharmacy/medicine and participation in current scientific projects. (unpaid leave from May 2013 to January 2015, see below).

May 2013–January 2015

Junior foreign research fellow

ICRC - FNUSA, Brno (Czech Republic)

The main focus was on the study of experimental onco-diseases with emphasis on new medical principles by means of ultrasound diagnosis. Pharmacodynamic mechanisms of action of new biologically active substances have been investigated on an animal body and cellular levels together with the medical standard comparison.

June 2009–August 2017

General Pharmacist

Public Pharmacy, Bratislava and Western Slovakia (Slovakia)

General pharmaceutical public healthcare, writing healthcare papers for the public, participation in a national healthcare campaign.

EDUCATION AND TRAINING

September 2015–June 2018

Master of Public Health (MPH)

Faculty of Public Health, Slovak Medical University in Bratislava (Slovakia)

The study in the MPH programme is harmonized with directives of the European Union to impart graduates with the necessary skills and qualification to practice as health care experts. Qualification management study program involve behavioral health, epidemiology, management and health economics, health protection, preventive and clinical medicine.

September 2009–August 2012

PhD degree in Pharmacology (PhD.)

Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava (Slovakia)

Pharmacology, patho-biochemistry, experimental rheumatology, etc.

September 2010–April 2011

Doctoral degree in Pharmacy (PharmDr.)

Faculty of Pharmacy, Comenius University in Bratislava (Slovakia)

Pharmacology, patho-biochemistry, experimental diabetology.

September 2004–June 2009

Masters degree in Pharmacy (Mgr.)

Faculty of Pharmacy, Comenius University in Bratislava (Slovakia)

pharmacology and toxicology, pharmacognosy, pharmaceutical chemistry, pharmaceutical technology, social pharmacy, legislation and pharmacoconomics, experimental diabetology, etc.

ADDITIONAL INFORMATION

Expertise

Pharmacology, Pharmacy, Experimental Rheumatology, Experimental Diabetology, Experimental Oncology, Rotational Viscometry and in vitro hyaluronic acid expertises, Toxicology.

In these areas, I published 14 articles (2009-2019) in extenso in international scientific journals. I am also the author and co-author of more than 30 abstracts from domestic and foreign conferences and a co-author of 3 chapters in books from US publisher NOVA SCIENCE.

Publications

Publication in the field of experimental arthritis and in vitro hyaluronic acid radical degradation (incl. abstracts):

- DRÁFI, František - BAUEROVÁ, Katarína - VALACHOVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JURÁNEK, Ivo - BOLDYREV, A. - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Carnosine inhibits degradation of hyaluronan induced by free radical processes in vitro and improves the redox imbalance in adjuvant arthritis in vivo. In *Neuroendocrinology Letters*, 2010, vol. 31, suppl. 2, p. 96-100. (1.047 - IF2009). ISSN 0172-780X.
- DRÁFI, František - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - JURÁNEK, Ivo - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Study of methotrexate and β -alanyl-L-histidine in comparison with L-glutathione on high-molar-mass hyaluronan degradation induced by ascorbate plus Cu(II) ions via rotational viscometry. In *Acta Medica (Hradec Králové) : Journal of Faculty of Medicine in Hradec Králové*, 2010, vol. 53, no. 3, p.170-171. ISSN 1211-4286.
- DRÁFI, František - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - BAUEROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Effect of methotrexate and carnosine on high-molar-mass hyaluronan degradation by Weissberger's system. In *Lipid oxidation, human diseases and aging: program and abstract book*. Turin, Italy, June 16-18, 2010. - [Turin] : [University of Turin], 2010, p. P8.
- DRÁFI, František - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - JURÁNEK, Ivo - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by ascorbate plus Cu(II) ions. Testing of methotrexate and carnosine for their function as anti-oxidant. In *TOXCON 2010: borderless toxicology. 15th Interdisciplinary toxicological conference & advanced toxicological course. The High Tatras Slovakia, Stará Lesná - Hotel Academia, September 6-10, 2010. Dedicated to the memory of doyen of Czecho-Slovak pharmacology and toxicology Prof. Helena Rašková, MD., DSc. (1913 - 2010). Programme & Abstracts.*, p. A41 - A42. *Interdisciplinary toxicology*. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2010, vol. 3, no. 3, p. A41 - A42. ISSN 1337-6853.
- DRÁFI, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - FEDOROVA, Tatiana - HARMATHA, Juraj - NOSÁL, Radomír. Pharmacological influence on processes of adjuvant arthritis: Effect of the combination of an antioxidant active substance with methotrexate. In *Interdisciplinary toxicology*, 2012, vol. 5, no. 2, p. 84-91. ISSN 1337-6853.
- DRÁFI, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BOLDYREV, A. - HARMATHA, Juraj - NOSÁL, Radomír. Evaluation of combined methotrexate therapy with antioxidant active substances in adjuvant-induced arthritis. A new approach to rheumatoid arthritis treatment. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 161-175. ISBN 978-80-971042-0-7.
- DRÁFI, František - SÝKORA, T. - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Hyperbilirubinaemia decreases clinical and biochemical markers in adjuvant-induced arthritis. In *TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts*, p. 32. *Interdisciplinary toxicology*. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 32. ISSN 1337-6853.

- DRÁFI, František - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KUNCÍROVÁ, Viera - BOLDYREV, A. - NOSÁL, Radomír. Experimental treatment of the adjuvant-induced arthritis. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. (Miniconference of doctoral students).
- DRÁFI, František - BAUEROVÁ, Katarína. Predklinické a klinické aspekty formulácie a použitia transdermálnych terapeutických systémov. In Česká a Slovenská farmacie : časopis České farmaceutické společnosti a Slovenské farmaceutické společnosti, 2011, roč. 60, č. 6, s. 305-306. ISSN 1210-7816.
- DRÁFI, František. Nové prístupy ku kombinovanej farmakoterapii reumatoidnej artritídy hodnotené na zvieracom modeli : autoreferát dizertačnej práce na získanie akademického titulu philosophiae doktor v študijnom odbore 7.3.2 Farmakológia. Martin, 2012. 20 s.
- DRÁFI, František. Nové prístupy ku kombinovanej farmakoterapii reumatoidnej artritídy hodnotené na zvieracom modeli : dizertačná práca. Školiteľ: Katarína Bauerová, školiteľ-špec.: Ladislav Šoltés, oponenti: Svorad Štolc, Anna Strapková, Ingrid Tumová. Martin, 2012. 163 s. Jesseniova lekárska fakulta v Martine, Univerzita Komenského, 28. 8. 2012, vedný odbor 7.3.2 Farmakológia.
- DRÁFI, František - BAUEROVÁ, Katarína - VALACHOVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JURÁNEK, Ivo - FEDOROVA, Tatiana - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Carnosin inhibuje degradáciu hyaluronanu indukovanú voľnoradikálovými procesmi in vitro a zlepšuje redoxnú nerovnováhu v adjuvantnej artritíde in vivo : [Carnosine inhibits degradation of hyaluronan induced by free radical processes in vitro and improves the redox imbalance in adjuvant arthritis in vivo] = Carnosine inhibits degradation of hyaluronan induced by free radical processes in vitro and improves the redox imbalance in adjuvant arthritis in vivo. In Pokroky vo farmakológii v Slovenskej republike VI. Editori: Pavel Švec, Magdaléna Kuželová, Ján Kyselovič. - Bratislava : Univerzita Komenského v Bratislave, Farmaceutická fakulta, 2011, s. 42-48. ISBN 978-80-223-3073-2.
- PONIŠT, Silvester - BAUEROVÁ, Katarína - MIHALOVÁ, Danica - DRÁFI, František - TRUNOVÁ, Oľga - FEDOROVA, Tatiana - BOLDYREV, A. Carnosine, an antioxidant or more? Effect of carnosine on rat adjuvant arthritis, an auto-immune disease. In Lipid oxidation, human diseases and aging : program and abstract book. Turin, Italy, June 16-18, 2010. - [Turin] : [University of Turin], 2010, p. P29.
- VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - DRÁFI, František - JURÁNEK, Ivo - BAUEROVÁ, Katarína - PRIESOLOVÁ, Elena - NAGY, Milan - ŠOLTÉS, Ladislav. Ascorbate and Cu(II)-induced oxidative degradation of high-molar-mass hyaluronan. Pro- and antioxidative effects of some thiols. In Neuroendocrinology Letters, 2010, vol. 31, suppl. 2, p. 101-104. (1.047 - IF2009). ISSN 0172-780X.
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- VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - DRÁFI, František - JURÁNEK, Ivo - BAUEROVÁ, Katarína - NAGY, Milan - PRIESOLOVÁ, Elena - ŠOLTÉS, Ladislav. Ascorbate and Cu(II) induced oxidative degradation of high-molar-mass hyaluronan: pro- and antioxidative effects of some thiol xenobiotics and drugs. In TOXCON 2010 : borderless toxicology. 15th Interdisciplinary toxicological conference & advanced toxicological course. The High Tatras Slovakia, Stará Lesná - Hotel Academia, September 6-10, 2010. Dedicated to the memory of doyen of Czecho-Slovak pharmacology and toxicology Prof. Helena Rašková, MD., DSc. (1913 - 2010). Programme & Abstracts., p.A90. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2010, vol. 3, no. 3, p. A90. ISSN 1337-6853.
- VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - DRÁFI, František - JURÁNEK, Ivo - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Testing the protective effects of thiols against the damage of a joint component - hyaluronan - by ascorbate plus Cu(II) under aerobic conditions. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2010, tom. 65, no. 1, p. 50-51. ISSN 1337-7817.
- ACQUAVIVA, Alessandra - DRÁFI, František - VECCHIO, Daniela - PONIŠT, Silvester - AREZZINI, Beatrice - MIHALOVÁ, Danica - GARDI, Concetta - NOSÁL, Radomír - BAUEROVÁ, Katarína. Pinosylin administered in monotherapy and in combination with methotrexate reduces oxidative stress in adjuvant arthritis rat model. In Second International Conference on Environmental Stressors in Biology and Medicine : october 5-7, 2011, Centro Didattico, Policlinico Le Scotte, Università di Siena, Siena (Italy). - Siena : [University of Siena], 2011, p. 58.
- BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - DRÁFI, František - KUNCÍROVÁ, Viera. Utilization of adjuvant arthritis model for evaluation of new approaches in rheumatoid arthritis

therapy focused on regulation of immune processes and oxidative stress. In *Interdisciplinary toxicology*, 2011, vol. 4, no. 1, p. 33-39. ISSN 1337-6853.

- KUNCÍROVÁ, Viera - DRÁFI, František - PONIŠT, Silvester - MIHALOVÁ, Danica - ONDREJIČKOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Improvement of standard anti-arthritis therapy with carnosine addition to methotrexate in rat adjuvant arthritis. In *Second International Conference on Environmental Stressors in Biology and Medicine* : october 5-7, 2011, Centro Didattico, Policlinico Le Scotte, Università di Siena, Siena (Italy). - Siena : [University of Siena], 2011, p. 72.
- PONIŠT, Silvester - DRÁFI, František - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - ONDREJIČKOVÁ, Oľga - TRUNOVÁ, Oľga - FEDOROVA, Tatiana - BOLDYREV, A. - BAUEROVÁ, Katarína. Anti-inflammatory effect of carnosine on rat adjuvant arthritis. In *Programme and abstract book : international congress on "Carnosine in exercise and disease"*. July 10-12, 2011, Ghent (Belgium). - [Ghent] : [Universiteit Gent], 2011, p. 41.
- VALACHOVÁ, Katarína - VARGOVÁ, A. - RAPTA, Peter - HRABÁROVÁ, Eva - DRÁFI, František - BAUEROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Aurothiomalate as preventive and chain-breaking antioxidant in radical degradation of high-molar-mass hyaluronan. In *Chemistry & biodiversity*, 2011, vol. 8, no. 7, p. 1274-1283. (1.586 - IF2010). (2011 - Current Contents). ISSN 1612-1872.
- VECCHIO, Daniela - ACQUAVIVA, Alessandra - AREZZINI, Beatrice - GARDI, Concetta - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - NOSÁL', Radomír - BAUEROVÁ, Katarína. Activity of pinosylvin administered in monotherapy and in combination with methotrexate on the development of rat adjuvant arthritis. In *4eme Symposium International Nutrition, Biologie de l'Oxygene et Médecine : radicaux libres et vieillissement: des aspects fondamentaux aux applications cliniques*. 15 - 17 Juin 2011, Paris, France. - Paris : Oxygen Club of California, 2011, p. P14.
- BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - DRÁFI, František - MIHALOVÁ, Danica - PONIŠT, Silvester. Prepojenie procesov oxidačného stresu a rozvoja zápalu zapojeného do etiopatogenézy reumatoidnej artritídy [Oxidative stress and development of inflammation interconnection during etiopathogenesis of rheumatoid arthritis]. In *Nové trendy vo farmakoterapii IV. : zborník prác*. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 28-38. ISBN 978-80-89544-32-5.
- KUNCÍROVÁ, Viera - DRÁFI, František - PONIŠT, Silvester - MIHALOVÁ, Danica - ONDREJIČKOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Efekt prídavku karnozínu k metotrexátovej antiartritrickej terapii : [Effect of carnosine addition to methotrexate anti-arthritis therapy]. In *Pokroky vo farmakológii v Slovenskej republike VII*. Editori: Pavel Švec, Magdaléna Kuželová, Ján Kyselovič. - Bratislava : Univerzita Komenského, Farmaceutická fakulta, 2012, s. 50-56. ISBN 978-80-223-3271-2.
- KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - NOSÁL', Radomír - HARMATHA, Juraj - BAUEROVÁ, Katarína. Anti-arthritis effect of combination therapy of methotrexate and N-feruloylserotonin in experimental arthritis. In *TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course*. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 47. *Interdisciplinary toxicology*. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 47. ISSN 1337-6853.
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Projects

- APVV-SK-PT-18-0022 (bilateral Slovak - Portugal, 2019-2020)
- APVV-15-0308: Molecular-pharmacological approaches to innovative therapy of rheumatoid arthritis evaluated under experimental conditions in vivo and in vitro. (2015-2019).
- VEGA no. 2/0044/15: Investigation of influencing inflammation, chronic autoimmune reaction and redox regulation of the organism in experimental arthritis using new substances for adjuvant therapy of rheumatoid arthritis. (2015-2018)
- VEGA no. 2/0045/11: Study of combination of immunosuppressive treatment and substances affecting redox balance of organism on animal models of rheumatoid arthritis.
- SAV-CNR: Evaluation of Quercetin and Green Tea in combination with Methotrexate for arthritis therapy.

Memberships Slovak Chamber of the pharmacist (since 2010)

Other Relevant Information In summary, my h-index reached the value of $h = 9$ (according to scopus.com in 2019), the number of citations as the first and co-author articles is more than 210 (according to scopus.com in 2019). I am currently a member of the research team of ongoing research projects funded by VEGA and APVV in academic sector of Slovakia.