

Curriculum Vitae

Personal information Attila Megyeri

Work experience

1. Employer: Department of Pharmacology and Pharmacotherapy, University of Debrecen
 - Start date: 042007
 - End date:
 - Position: assistant professor
 - Activities: Education: Teaching and participating in the examination of "Pharmacology" and "Pharmacotherapy" in English and in Hungarian to students of general medicine, dentistry, molecular biology, and nutritional sciences. Primarily by giving lectures, seminars, and tutoring theses for the Doctor of Medicine degree. Coordinating and teaching three elective courses in English and Hungarian for students of general medicine titled: (i) "Practical application of antimicrobial drugs"; (ii) "Practical pharmacokinetics" and (iii) "... about health education and drugs of abuse". Tutoring students and participating in the activities of the Student Research Society. Research: Participating in the research activities of the Cellular Pharmacology Research group of the Department of Pharmacology. Primarily by participating in the design, execution, and publication of in vitro and in vivo studies on hemopoietic progenitor cells to investigate the toxicity of various chemicals (e.g. anticancer drugs and micronutrients) on hemopoiesis. Administrative: Coordinating the quality assurance activities of the Department of Pharmacology according to the European Standard EN ISO 9001:2015.
 - Country: Hungary
2. Employer: Barbara Ann Karmanos Cancer Institute, Detroit, MI
 - Start date: 082001
 - End date: 082003
 - Position: research scholar
 - Activities: In 2001 I have been awarded by an UICC (International Union Against Cancer)-ACS (American Cancer Society) fellowship for beginner investigators for one year which was extended by another year with funding from the host institute. I was responsible for the development of a method to characterize fluoropyrimidine metabolizing enzymes at the cellular level using immunofluorescent staining and slide based cytometry.
 - Country: United States
3. Employer: Department of Pharmacology and Pharmacotherapy, University of Debrecen
 - Start date: 101996
 - End date: 032007
 - Position: assistant lecturer
 - Activities: Education: Teaching "Pharmacology" in English and in Hungarian to students of general medicine. Primarily by giving lectures, seminars, and tutoring theses for the Doctor of Medicine degree. Research: Participating in the research activities of the Cellular Pharmacology Research group of the Department of Pharmacology. Primarily by participating in the execution, and publication of in vitro and in vivo studies on hemopoietic progenitor cells to investigate the toxicity of various chemicals (e.g. anticancer drugs and micronutrients) on hemopoiesis.
 - Country: Hungary
4. Employer: Department of Pharmacology and Pharmacotherapy, University of Debrecen
 - Start date: 101992
 - End date: 101996
 - Position: instructor
 - Activities: Education: Teaching "Pharmacology" in English and in Hungarian to students of general medicine by leading seminars. Research: Participating in the research activities of the Cellular Pharmacology Research group of the Department of Pharmacology. Primarily by participating in the execution of in vitro and in vivo studies on hemopoietic progenitor cells to investigate the toxicity of various chemicals (e.g. anticancer drugs and micronutrients) on hemopoiesis.
 - Country: Hungary

Education and training

1. Subject: University of Debrecen, Debrecen
 - Start date: 101996
 - End date: 102006
 - Qualification: Ph.D.
 - Organisation: Attempts at improving fluoropyrimidine chemotherapy by biochemical modulators or by biomarker measurements with laser scanning cytometry.
 - Country: Hungary
2. Subject: Medical University of Debrecen, Debrecen
 - Start date: 091986
 - End date: 091992
 - Qualification: M.D. _ doctor of medicine
 - Organisation: General medicine
 - Country: Hungary

Additional information

Publications

Megyeri A., Kovács P. (2020) Részletes mérgegtan: nemfémek elemek és egyéb toxikus szerek okozta mérgezések. IN Gyires K., Füst Zs., Ferdinándy P.(Ed.) Farmakológia és Klinikai Farmakológia. Medicina, Budapest. pp

984_1019. _ chapter title in English: "Detailed toxicology: poisonings caused by non_metallic elements and other toxic compounds Megyeri A., Kovács P. (2016) Részletes mérgegtan: nemfémek elemek és egyéb toxikus szerek okozta mérgezések. IN Gyires K., Fürst Zs., Ferdinándy P.(Ed.) Farmakológia és Klinikai Farmakológia. Medicina, Budapest. pp 978_1013. _ chapter title in English: "Detailed toxicology: poisonings caused by non_metallic elements and other toxic compounds Géresi, K., Megyeri, A., Szabó, B., Szabó, Z., Aradi, J., Németh, J. & Benkő, I. (2015) Myelotoxicity of carboplatin is increased in vivo in db/db mice, the animal model of obesity-associated diabetes mellitus. CANCER CHEMOTHERAPY AND PHARMACOLOGY, 75, 609_618. Ungvári, E., Monori, I., Megyeri, A., Csiki, Z., Prokisch, J., Sztrik, A., Jávör, A. & Benkő, I. (2014) Protective effects of meat from lambs on selenium nanoparticle supplemented diet in a mouse model of polycyclic aromatic hydrocarbon-induced immunotoxicity. FOOD AND CHEMICAL TOXICOLOGY, 64, 298_306. Miszti-Blasius, K., Felszeghy, S., Kiss, C., Benkő, I., Géresi, K., Megyeri, A., Hevessy Z., & Kappelmayer, J. (2014) P_selectin glycoprotein ligand_1 deficiency augments G-CSF induced myeloid cell mobilization. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 387, 109_118. Géresi, K., Benko, K., Szabó, B., Megyeri, A., Peitl, B., Szilvássy, Z. & Benkő, I. (2012) Toxicity of cytotoxic agents to granulocyte macrophage progenitors is increased in obese Zucker and non-obese but insulin resistant Goto_Kakizaki rats. EUROPEAN JOURNAL OF PHARMACOLOGY, 696, 172_178. Goda K., Fenyvesi, F., Bacsó, Z., Nagy, H., Márián, T., Megyeri, A., Krasznai, Z., Juhász, I., Vecsernyés, M. & Szabó, G. (2007) Complete inhibition of P_glycoprotein by simultaneous treatment with a distinct class of modulators and the UIC2 monoclonal antibody. JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, 320, 81_88. Bacsó, Z., Megyeri, A. & Eliason, J. F. (2007) Selected LSC applications. CYTOMETRY PART A, 71A, 47_47. Megyeri, A., Bacsó, Z., Shields, A. & Eliason, J. F. (2005) Development of a stereological method to measure levels of fluoropyrimidine metabolizing enzymes in tumor sections using laser scanning cytometry. CYTOMETRY PART A, 64, 62_71. Eliason, J. F. & Megyeri, A. (2004) Potential for predicting toxicity and response of fluoropyrimidines in patients. CURRENT DRUG TARGETS, 5, 383_388. Megyeri, A., Kaplan, J. & Eliason, J. F. (2004) Laser Scanning Cytometry for selection of green fluorescent protein transgenic mice using small number of blood cells. JOURNAL OF BIOCHEMICAL AND BIOPHYSICAL METHODS, 61, 183_187. Gidali, J., Feher, I., Megyeri, A. & Kovács, P. (2001) Leukaemogenic potency of WEHI_3B cells grown in vitro or in leukaemic mice. BONE MARROW TRANSPLANTATION, 28, 699_704. Benkő, I., Kovács, P., Szegedi, I., Megyeri, A., Kiss, A., Balogh, E., Oláh, E., Kappelmayer, J. & Kiss, C. (2001) Effect of myelopoietic and pleiotropic cytokines on colony formation by blast cells of children with acute lymphoblastic leukemia. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 363, 499_508. Benkő, I., Hernádi, F., Megyeri, A., Kiss, A., Somogyi, G., Tegye, Z., Kraicsovits, F. & Kovács, P. (1999) Comparison of the toxicity of fluconazole and other azole antifungal drugs to murine and human granulocyte macrophage progenitor cells in vitro. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY, 43, 675_681. Megyeri, A., Benko, I., Jeney, A., Kralovanszky, J. & Kovács, P. (1997) Modification of the myelotoxicity of single or repeated doses of 5-fluorouracil by ethyldeoxyuridine. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 356, 75_75. Benkő, I., Maródi, L., Megyeri, A., Káposzta, R. & Kovács, P. (1996) Effect of granulocyte colony stimulating factor on granulopoiesis of congenital neutropenic children. ACTA PHYSIOLOGICA HUNGARICA, 84, 261_262. Benkő, I., Megyeri, A., Hernádi, F. & Kovács, P. (1996) Effect of imidazole antifungal agents on colony formation by murine bone marrow CFUc (Colony forming units in culture). ACTA PHARMACEUTICA HUNGARICA, 66, 241_245. Megyeri, A., Benkő, I., Jeney, A. S., Kralovanszky, J. & Kovács, P. T. (1996) Effect of ethyldeoxyuridine on 5-fluorouracil-induced neutropenia. ACTA PHYSIOLOGICA HUNGARICA, 84, 309_310. Kovács, P., Benkő, I., Megyeri, A., Hernádi, F., Jeney, A. & Kralovanszky, J. (1994) Effect of uridine rescue on 5-Fluorouracil-Induced neutropenia. Recent advances in chemotherapy: Proceedings of the 18th International Congress of Chemotherapy. Washington DC: American Society of Microbiology (ASM).

Projects

I've participated in the design, execution, evaluation and reporting of both in vitro and in vivo animal studies investigating myelotoxic effects of various chemicals. The studied chemicals included e.g. cytotoxic drugs (fluoropyrimidines and their biochemical modulators, platinum analogues), azole antifungals, and micronutrients (e.g. selenium compounds or selenium enriched functional foods). In vitro studies were done on murine and human hematopoietic progenitor cells (primarily GM-CFU (granulocyte macrophage colony forming units) in semi solid gel cultures. For in vivo studies of murine hematopoiesis, peripheral blood counts and GM-CFU content of the femoral bone marrow were determined after treatment of the animals with the above mentioned chemicals. From 2001 through 2003, as a UICC-ACSBI (Union for International Cancer Control-American Cancer Society fellowship for Beginner Investigators) fellow I was responsible for the development of a method to estimate multiple fluoropyrimidine metabolizing enzymes at the cellular level using immunofluorescent staining and slide based cytometry. The basic idea of this project was to improve the individualization of fluoropyrimidine based chemotherapy by quantitative in situ measurements of metabolizing enzymes. In 2016 and 2020 I was co-author of a chapter of a Hungarian Pharmacology textbook for medical students.

Memberships

Member of Hungarian Society for Experimental and Clinical Pharmacology 2001 UICC-ACSBI (Union for International Cancer Control-American Cancer Society fellowship for Beginner Investigators) fellow 1998 Giuliana Fassina Award of the Italian Pharmacological Society

Other Relevant Information

More than 20 years' experience in teaching Pharmacology in English and in Hungarian to students of general medicine. I was selected as the "Educator of the year" six times (2012, 2013, 2014, 2019, 2021, 2022) by fourth year English program students of General Medicine at University of Debrecen. In 2022, I received the Award of Outstanding Educator of the Faculty of Medicine, University of Debrecen. High level working knowledge of Microsoft Office software, GraphPad Prism and other scientific graphing and statistical programs. Experience with Endnote and BibTeX reference manager programs and basic knowledge of R statistical language, and some knowledge of python, perl and gawk programming languages. Completion of the "Laboratory animal science and experimental design" program. Participation in a program improving the application writing skills for European Union supported projects.