



Bogdan-Ionel TAMBA
MD, PhD
Head of Department
Senior Researcher in Pharmacology

About: Researcher in Pharmacology. Holding a Medical Doctor degree (UMF Iași) and a PhD degree in Pharmacology. Fundamental and applicative research, pharmacological action, preclinical and pharmacological therapeutic research, identification of integrative molecular and physiological pharmacological mechanisms of medicinal substances, pharmacokinetics and pharmacodynamics on drug substances, investigations of therapeutic agents in the body (absorption, distribution, metabolism and elimination) and interactions and effects on living tissues, in vitro and in vivo studies.

Selected papers:

B.I. Tamba, T. Alexa Stratulat, 2017, Trace Elements Alleviate Pain in Mice and Humans, Chapter Nutritional Modulators of Pain in the Aging Population, Elsevier, 199-216, ISBN 978-0-12-805186-3.
B.I. Tamba, A. Dondas, M. Leon, A.N. Neagu, G. Dodi, C. Stefanescu, A. Tijani, 2015, European Journal of Pharmaceutical Sciences, 71: 46-55.
B.I. Tamba, M.M. Leon, T. Petreus, 2013, Journal Of Neuroscience Research, 91 (4): 554-561.
 E. Rezus, M. Floria, A. Grigoriu, **B.I. Tamba**, C. Rezus, 2015, Current Vascular Pharmacology 13(6):716-724.
 T. Alexa, A. Marza, T. Voloseniuc, **B.I. Tamba**, 2015, Journal of Neuroscience Research 93(10): 1534-1541



Gabriela-Dumitrița STANCIU
DVM, PhD
In vivo Unit

About: Researcher in Clinical Veterinary Medicine. Holding a Medical Doctor degree (USAMV, Iasi) and a PhD degree in Neurophysiology and Neurodiagnosis.

Selected papers:

Stanciu Gabriela Dumitrița, Packer RMA, Pakozdy A, Solcan G, Volk HA. 2017. The Veterinary Journal 225: 9–12.
 Stanciu Gabriela Dumitrița, Solcan G. 2016. BMC Veterinary Research. 12:111.
 Stanciu Gabriela Dumitrița, Armașu M, Musteață M, Solcan G. 2016.. Arquivo Brasileiro de Medicina Veterinária e Zootecnia, v.68, n.6, p1422-1430.
 Gabriela Dumitrița Stanciu – Electrophysiological exploration of the nervous system in veterinary medicine, Ed. "Ion Ionescu de la Brad", Iași, 2016.



Andrei LUCA
MD, PhD
Physiopharmacology Unit

About: Medical field researcher, study and therapy of pain, pharmacokinetics and pharmacodynamics . Holding a Medical Doctor degree (UMF "Grigore T. Popa" Iasi) field of speciality - internal medicine/pneumology and a PhD degree in Physiopathology (mitochondrial pain modulation).

Selected papers:

Ababei D. C., Beschea-Chiriacs S., Bild W., Solcan C., **Luca A.**, Rusul R.N., Buleal D., Bild V., *Farmacia, Sept 2017 (accepted)*
 Alexa A.I., Cantemir A., Antioch I., Balmus I.M., Cojocaru S., Gardikiotis R., **Luca A.**, Filip M.A., Ababei D.C., Zamfir C.L., . Rev.Chim.(Bucharest) 2017, 68(2):350-353.
 Pânzariu A.C., Pașca A.S., Șindilar A., Drochioi C., Oboroceanu T., Niculescu S., Crauciuc D.V., Crauciuc E.G, **Luca A.**, Butcovan D., Șindilar E.V., Mocanu V., Rev.Chim.(Bucharest) 2017, 68(9). (accepted)
 Alexa T., **Luca A.**, Dondaș A., Bohotin C.R., Exp Ther Med. 2015 Apr; 9(4):1465-1469.



Gianina DODI
PhD

About: Magnetic nanoparticles , natural and synthetic polymeric supports and composite superhydrophobic coatings synthesis and characterization, knowledge of various analytical techniques; drug delivery evaluation, radiolabelling methods, in vitro and in vivo studies, R&D; project management.

Selected papers:

Dodi, G.; Pala, A.; Barbu, E.; Peptanariu, D.; Hritcu, D.; Popa, M.I.; Tamba, B.I. (2016).Materials Science and Engineering: C, 63: 628–636.
 Iordache, M.L.; Dodi, G.; Hritcu, D.; Draganescu, D.; Chiscan, O.; Popa, M.I. (2015). Arabian Journal of Chemistry, In press.
 Dodi, G.; Hritcu, D.; Lisa, G.; Popa, M.I. (2012). Chemical Engineering Journal 203: 130-141.
 Dodi, G.; Hritcu, D.; Draganescu, D.; Popa, M.I. (2015). Journal of Magnetism and Magnetic Materials, 388: 49–58.
 Dodi, G.; Hritcu, D.; Popa M.I. (2011). Cellulose Chemistry and Technology, 45 (3-4): 171-176.



Ioannis GARDIKIOTIS
MD, PhD
Surgery Unit

About: resident physician in plastic surgery and scientific researcher gr. III. Research interests are focused on animal models in the areas of burns and regenerative medicine, microsurgery, flaps, and epidemiology.

Selected papers:

Gardikiotis I., Azoică D., Dobreanu C., Petrescu I., Lazăr A., Manole A., Ghetu N., Rev Cercet Interv So. 2016 (52):92-104
Gardikiotis I., Azoică D., Popa M., Manole A.M., Iorga M, Journal of Surgery 2015 (4): 143-149
Gardikiotis I., Manole A., Azoică D., Rev Med Chir Soc Nat Iasi. 2015. 119 (2): 529-535



Raluca ȘTEFĂNESCU
PhD
LC/MS Unit

About: Applications of mass spectrometry in biology and medicine, Solid phase peptide synthesis according to Fmoc/tBu strategy, RP-HPLC peptide purification, peptide and protein analysis at mass spectrometers equipped with MALDI, ESI and nanoESI, epitope identification by affinity chromatography coupled with mass spectrometry, separation of proteins by 2D-SDS-PAGE, peptide mass fingerprinting; qualitative analysis by ELISA

Selected papers:

Zirah S., **Ștefănescu R.**, Manea M., Tian X., Cecal R., Kozin D.A., Debey P., Rebuffat S., Przybylski M., (2004). Biochem. Biophys. Res. Commun. 321(2), 324-328.
 Grau S., Baldi A., Bussani R., Tian X., **Ștefănescu R.**, Przybylski M., Richards P., Jones S.A., Shridhar V., Clausen T., Ehrmann M., (2005). Proc. Natl. Acad. Sci. 102(17), 6021-6026.
 Leary J.A., Schenauer M.R., **Ștefănescu R.**, Andaya A., Ruotolo B.T., Robinson C.V., Thalassinos K., Scrivens J.H., Sokabe M., Hershey J.W., (2009). J. Am. Soc. Mass Spectrom. 20(9), 1699-1706.
Ștefănescu R., Born R., Moise A., Ernst B., Przybylski M., (2011). J. Am. Soc. Mass Spectrom. 22(1), 148-157.



Cosmin-Teodor MIHAI
PhD
In vivo Molecular Imagistic Unit

About: Animal cell culture techniques. In vitro identification and selection of antitumoral possible candidates by short and long-term studies. Investigation of cell apoptosis, cell cycle, cell proliferation and levels of reactive oxygen species by flow cytometry and/or biochemical assays. Assessment of genotoxicity by COMET test. Biocompatibility studies.

Selected papers:

Aprotosoiaie, A.C., Zavastin, D.E., **Mihai, C.T.**, Voichita, G, Gherghel, D., Silion, M., Trifan, A., Miron, A., 2017, doi: 10.1016/j.fct.2017.02.006.
 Aprotosoiaie, AC; **Mihai, CT**; Vochita, G; Rotinberg, P; Trifan, A; Luca, SV; Petreus, T; Gille, E; Miron, A.(2016). Industrial Crops and Products, 79, 248-257
 Hensel, K; Kučerová, K; Tarabová, B; Janda, M; Machala, Z; Sano, K; **Mihai, CT**; Ciorpac, M; Gorgan, LD; Jijie, R; (2015). Biointerphases, 10(2), 29515
Mihai, C.T., Rotinberg, P., Brinza, F., Vochita, G., (2014). Journal of Environmental Health Science and Engineering, 12, 1, 15



Cristina URÎTU
PhD
Nuclear Medicine Unit

About: Knowledge of PET-MRI technique for in vivo molecular and preclinical imaging; design and synthesis of nanostructures for gene and drug release; characterization of chemical compounds: IR, NMR, UV-Vis, fluorescence, gel electrophoresis, HPLC, thermal analysis (TG/DSC), DLS.

Selected papers:

R. Ardeleanu, A.I. Dascalu, A. Neamtu, D. Peptanariu, C.M. Uritu et. al, Polym Chem, 2017, DOI: 10.1039/C7PY01256J
 A.I. Dascalu, R. Ardeleanu, A. Neamtu, S.S. Maier, C. M. Uritu et. al., J Mater Chem B, 2017, 5, 7164.
 C. Ștefănescu, G. Dodi, A. Cazacu, C.M. Uritu, et. al., Annual Congress of the EANM, 2015, Hamburg, Germany.
 C.M. Uritu, M. Calin, et. al, J Mater Chem. B, 2015, 3, 8250.
 C.M. Uritu, C.D. Varganici, et. al., J Mater Chem B, 2015, 3, 2433.



Florina COJOCARU

PhD

Genetic lab

About: Synthesis and characterization of scaffolds for tissue engineering, knowledge of various analytical techniques, in vitro and in vivo studies, nucleic acid extraction and purification

Selected papers:

F.D. Cojocaru, V. Balan, M.I. Popa, A. Lobiuc, A. Antoniac, I.V. Antoniac, L. Verestiuc, International Journal of Biological Macromolecules, 125, 2019, 612-620.

F.D. Cojocaru, V. Balan, I.M. Popa, A. Munteanu, A. Anghelache, L. Verestiuc, Magnetic, Medicina 2019, 55, 153.

A.G. Rusu, A. P. Chiriac, L.E. Nita, M. Bercea, N. Tudorachi, A. Ghilan, D. Pamfil, D. Rusu,

F.D. Cojocaru, International Journal of Biological Macromolecules, 132, 2019, 374-384



Radu ILIESCU
M.D., Ph.D., FAHA
Professor of Pharmacology

About: Areas of expertise
General: Regulation of blood pressure and mechanisms of hypertension. Hypertensive renal and cardiac injury. Role of sex hormones in the cardiovascular system.
Specific: Role of baroreflexes and renal autoregulation in cardiovascular dynamics in health and disease. Research methods and techniques: Chronic physiological assessment of cardiovascular - renal parameters in rodents and large mammals. Analysis of spontaneous fluctuations of blood pressure, heart rate and renal blood flow. Steady-state and dynamic techniques for assessment of baroreflex and renal autoregulatory function. Quantitative modeling of dynamic physiological processes.

Selected papers:

Iliescu R, Lohmeier TE, Tudorancea I, Laffin L, Bakris GL., *Am J Physiol Renal Physiol.* 2015 Oct 1;309(7):F583-94
Iliescu R, Tudorancea I, Irwin ED, Lohmeier TE., *Am J Physiol Heart Circ Physiol.* 2013 Oct 1;305(7):H1080-8.
Lohmeier TE, **Iliescu R.**, *Curr Hypertens Rep.* 2013 Aug;15(4):409-16
Iliescu R, Irwin ED, Georgakopoulos D, Lohmeier TE., *Hypertension.* 2012 Sep;60(3):749-56
Lohmeier TE, **Iliescu R.**, *Hypertension.* 2011 May;57(5):880-6



Veronica BILD
PhD, Msc
Associate Professor

About: Researcher in Pharmacology. Holding a Medical Doctor degree (UMF Iași) and a PhD degree in Pharmacology. Fundamental and applicative research, preclinical research and studies on pharmacological action of medicinal substances, pharmacodynamics and pharmacokinetics research of medicines, mechanisms of actions of drugs and the study of those behavior in animal body, in vitro and in vivo studies.

Selected papers:

Bild, V., Ababei, D.C., Neamțu, M., Vasincu, A., Bild, W., Stanciu, G.D., Tamba, B. I., Solcan, G., Beșchea Chiriac, S., *FARMACIA*, 2017, 65(4): 563-566
Ababei, DC; Lefter, R; Ciobica, A; Antioh, I; Barbu, RM; Arcan, OD; Chiriac, SB; Zbarcea, C; Bild, W; Bild, V., *FARMACIA*, 2017, 65(3): 381-389
Voicu, M; Cristescu, C; Zbarcea, CE; Voicu, A; Buda, V; Suci, L; Suci, M; Proks, M; Bild, V., *FARMACIA*, 2017, 65(2): 225-229
Serban, D; Anton, E; Chirita, R; Bild, V; Ciobica, A; Alexinschi, O; Arcan, O; Popescu, R; Paduraru, L; Timofte, D., *ARCHIVES OF BIOLOGICAL SCIENCES*, 2015, 67(3): 903-907
Vasincu, A; Paulsen, BS; Diallo, D; Vasincu, I; Aprotosoiaie, AC; Bild, V; Charalambous, C; Constantinou, AI; Miron, A; Gavrilescu, CM., *MOLECULES*, 2014, 19(11): 19114-19136



Teodora Alexa-Stratulat
MD, PhD
Assistant Professor Medical
Oncology-Radiotherapy

About: Researcher in Oncology. Holding a Medical Doctor degree (UMF Iași), a PhD degree in Medical Sciences (UMF Iasi) and a Certificate in Research Ethics (Ichan School of Medicine, USA)
Research methods and techniques: in vivo, in vitro, histology and immune fluorescence preclinical assessment of neuropathic pain, nerve fiber density, behavioral animal testing, oncological murine models, cell culture using: human and murine chemo-immunosensitive and chemo-immunoresistant tumor cells, cell viability/toxicity assay, DRG neurotoxicity assessment.

Selected papers:

Alexa T, Marza A, Voloseniuc T, Tamba B. J *Neurosci Res.* 2015 Oct;93(10):1534-41. doi: 10.1002/jnr.23609.
Alexa T, Luca A, Dondas A, Bohotin CR. *Exp Ther Med.* 2015 Apr;9(4):1465-1469.
Nutritional Modulators in Chemotherapy-induced Neuropathic Pain. **Alexa-Stratulat T**, Luca A, Badescu M, Bohotin CR, Alexa ID. In: "Nutritional Modulators of Pain in the Aging Population". Watson RR, Zibadi S (Eds). Academic Press Elsevier 2017. ISBN: 978-0-12-805186-3
Pain in oncology. **Alexa T**, Miron L. In: Maria Magdalena Leon, Mungiu OC (editors) „ Pain therapy - current aspects” Gr.T. Popa Publishing House, UMF Iași 2014:148-165.
Alexa T, Anti L, Luca A, Miron L, Alexa ID. *Contemporary Oncology* 2014;18(5):340-343.



Ionut Tudorancea
M.D., PhD

About: Areas of expertise
Short and long-term regulation of arterial blood pressure. The role of autonomic nervous system in cardiovascular system homeostasis. Research methods and techniques
Acute and chronic assessment of cardiovascular and renal hemodynamic parameters in rodents.
Analysis of fluctuations of blood pressure, heart rate.
Steady-state and dynamic techniques for assessment of the arterial baroreflex.

Tudorancea I, Iliescu R. , *Hypertension.* 2017 Aug;70(2):255-256.

Tudorancea I, Porumb V, Trandabăț A, Neaga D, Tamba B, Iliescu R, Dimofte GM., *PLoS One.* 2017 Sep 21;12(9):e0184810

Lohmeier TE, Iliescu R, **Tudorancea I**, Cazan R, Cates AW, Georgakopoulos D, Irwin ED., *Hypertension.* 2016 Jul;68(1):227-35.

Iliescu R, Lohmeier TE, **Tudorancea I**, Laffin L, Bakris GL., *Am J Physiol Renal Physiol.* 2015 Oct 1;309(7):F583-94.

Iliescu R, **Tudorancea I**, Lohmeier TE. Baroreflex activation: from mechanisms to therapy for cardiovascular disease. *Curr Hypertens Rep.* 2014 Aug;16(8):453.

