

UPDATES BTI 2020

ARTICLES

1. Vadana M, Cecoltan S, Ciortan L, Macarie RD, Tucureanu MM, Mihaila AC, Droc I, Butoi E, Manduteanu I. Molecular mechanisms involved in high glucose-induced valve calcification in a 3D valve model with human valvular cells. *J Cell Mol Med.*, Volume 24(11):6350-6361, **2020**. (IF: 4,486).
2. Wu X, Niculite CM, Preda MB, Rossi A, Tebaldi T, Butoi E, White MK, Tudoran OM, Petrusca DN, Jannasch AS, Bone WP, Zong X, Fang F, Burlacu A, Paulsen MT, Hancock BA, Sandusky GE, Mitra S, Fishel ML, Buechlein A, Ivan C, Oikonomopoulos S, Gorospe M, Mosley A, Radovich M, Davé UP, Ragoussis J, Nephew KP, Mari B, McIntyre A, König H, Ljungman M, Cousminer DL, Macchi P, Ivan M. Regulation of cellular sterol homeostasis by the oxygen responsive noncoding RNA lincNORS. *Nat Commun.* 21;11(1):4755, **2020**. (IF: 12,121)
3. Voicu G, Rebleanu D, Constantinescu CA, Fuior EV, Ciortan L, Droc I, Uritu CM, Pinteala M, Manduteanu I, Simionescu M, Calin M, Nano-Polyplexes Mediated Transfection of Runx2-shRNA Mitigates the Osteodifferentiation of Human Valvular Interstitial Cells. *Pharmaceutics.* 12(6):E507. 2020;doi: 10.3390/pharmaceutics12060507 (IF: 4,421)
4. Constantin M, Bucatariu S, Sacarescu L, Daraba OM, Anghelache M, Fundueanu G, Pullulan derivative with cationic and hydrophobic moieties as an appropriate macromolecule in the synthesis of nanoparticles for drug delivery, *Int J Biol Macromol.* S0141-8130(20)34424-X, 2020. doi: 10.1016/j.ijbiomac.2020.09.064. (IF: 5,162)
5. Bucatariu S, Constantin M, Varganici CD, Rusu D, Nicolescu A, Prisacaru I, Carnuta M, Anghelache M, Calin M, Ascenzi P, Fundueanu G, A new sponge-type hydrogel based on hyaluronic acid and poly(methylvinylether-alt-maleic acid) as a 3D platform for tumor cell growth, acceptata la revista *Int J Biol Macromol* (IF: 5,162).
6. Serafim A, Cecoltan S, Olăreț E, Dragusin DM, Vasile E, Popescu V, Manolescu Mastalier BS, Iovu H, Stancu IC. Bioinspired Hydrogel Coating Based on Methacryloyl Gelatin Bioactivates Polypropylene Meshes for Abdominal Wall Repair. *Polymers (Basel).* 2020 Jul 28;12(8):1677. (IF: 3.42).

MONOGRAPHS AND CHAPTERS IN MONOGRAPHS

1. Fuior EV, Calin M (2020), Nanoparticle-based delivery of polyphenols for the treatment of inflammation-associated diseases. In Book: *Advances and Avenues in development of novel carriers for Bioactives and biological agents*, Editors: Manju Rawat Singh, Deependra Singh, Jagat

Kanwar, Nagendra Singh Chauhan, 343-382, Academic Press, ELSEVIER, ISBN: 978-0-12-819666-3 (No. of libraries according to Karlsruher Virtueller Katalog (KVK): 108).

AWARDS

1. Ciolacu D, Petrovici AR, Mihaila AC, Butoi E. Hydrogel based on exopolysaccharides byosynthesis by lactic acid bacteria strain. XXIV- the International exhibition of inventions, INVENTICA Iasi, July 29-31, 2020.

Grants won in national/international competitions

1. ERANET-NEURON; ctr. no. 137/ 2020 - Title: “Stroke risk prediction in atherosclerosis measuring circulating complement system protein.” (acronym STATEMENT)

Proiect Director: Dr. Stefano Fumagalli

Partners: P1 (CO) - Mario Negri Institute for Pharmacological Research, IRCCS (project responsible: Fumagalli Stefano); P2- San Martino Polyclinic Hospital, Genova (project responsible: Montecucco Fabrizio); P3 - Institute of Clinical Medicine University of Oslo (project responsible: Mollnes Tom Eirik); P4 - INSERM U.1060/Université, Lyon ((project responsible: Canet Soulas Emmanuelle); P5- Institutul de Biologie si Patologie Celulara „N. Simionescu” (project responsible: Ileana Manduteanu).

2. PN-III-P1-1.1-PD-2019-0247; ctr. no. PD 18/2020 (2020-2022)- „Conceperea și sinteza unor compuși noi ai vanadiului pentru terapia diabetului; evaluarea preclinică într-un model experimental de diabet” (acronim DIAVAN)

Proiect Director: Mihaela Turtoi (Cărnăuță).

3. PN-III-P2-2.1-PED-2019- „Dezvoltarea si validarea unui hidrogel din matrice extracelulara cardiaca pentru repararea miocardului post infarct” (acronym NAMIGEL)

Proiect Director: Dr.Elena Butoi.