

# LISTA DE LUCRĂRI ȘTIINȚIFICE

**Miruna-Silvia STAN**

## **I. Teza de doctorat**

- 1) “Cercetări la nivel celular și molecular privind toxicitatea quantum dots de siliciu la nivelul celulelor pulmonare umane”. Noiembrie 2015. Coordonator: Prof. Dr. Anca Dinischiotu.

## **II. Brevet de invenție național**

- 1) Roman I., Eugeniu V., Trusca R., Soare M.L., Fratila C.V., Dinischiotu A., **Stan M.** Electrode și senzori electrochimici pentru măsurarea directă a conținutului de fosfatază alcalină din soluții, în scopuri biomedicale. Brevet de invenție Nr. 128556 (OSIM). BOPI-Secțiunea Invenții nr. 8/2017. Data eliberării 30.08.2017, București, România.

## **III. Capitole de cărți în edituri internaționale**

- 1) Nica IC, **Stan MS**, Dinischiotu A. Metal/metal oxides for electrochemical DNA biosensing. In: Metal Oxides Series. Metal Oxides for Biomedical and Biosensor Applications (eds. Mondal K, Korotcenkov G), 1<sup>st</sup> edition, Elsevier Science Publishing Co Inc, Oxford, UK, 2021, p. 265-289. Print ISBN: 978-0-12-823033-6.
- 2) **Stan MS**, Strugari AFG, Balas M, Nica IC. Biomedical applications of carbon nanotubes with improved properties. In: Fullerenes, Graphenes and Nanotubes: A Pharmaceutical Approach (ed. Grumezescu AM), Elsevier, Oxford, UK, 2018, p. 31-65. Print ISBN: 978-0-12-813691-1.
- 3) **Stan MS**, Sima C, Dinischiotu A. Silicon Quantum Dots: From Synthesis to Bioapplications. In: Bioactivity of Engineered Nanoparticles (eds. Yan B, Zhou H, Gardea-Torresdey JL), Springer, Singapore, 2017, p. 339-359. Print ISBN: 978-981-10-5863-9.

## **IV. Articole publicate în reviste științifice cotate ISI**

- 1) Burdusel A-C, Neacsu IA, Birca AC, Chircov C, Grumezescu A-M, Holban AM, Curutiu C, Ditu LM, **Stan M**, Andronescu E. Microwave-assisted hydrothermal treatment of multifunctional substituted hydroxyapatite with prospective applications in bone regeneration. *J. Funct. Biomater.* 2023, 14(7), 378. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.17 (2022). Q2
- 2) Bîrcă AC, Gherasim O, Niculescu A-G, Grumezescu AM, Neacsu IA, Chircov C, Vasile BȘ, Oprea OC, Andronescu E, **Stan MS**, Curutiu C, Ditu LM, Holban AM. A microfluidic approach for synthesis of silver nanoparticles as a potential antimicrobial agent in alginate-hyaluronic acid-based wound dressings. *Int J Molec Sci.* 2023, 24(14), 11466. Impact Factor: 5.6 (2022), Scor relativ de influență: 2.264 (2022). Q2
- 3) Geana EI, Ciucure CT, Tamaian R, Marinas IC, Gaboreanu DM, **Stan M**, Chitescu CL. Antioxidant and wound healing bioactive potential of extracts obtained from bark and needles of softwood species. *Antioxidants* 2023; 12(7), 1383. Impact Factor: 7.0 (2022), Scor relativ de influență: 2.138 (2022). Q1
- 4) Marinescu G, Culita DC, Mocanu T, Mitran R-A, Petrescu S, **Stan MS\***, Chifiriuc MC, Popa M. New nanostructured materials based on mesoporous silica loaded with Ru(II)/Ru(III) complexes with anticancer and antimicrobial properties. *Pharmaceutics* 2023, 15(5), 1458. Impact Factor: 5.4 (2022), Scor relativ de influență: 1.174 (2022). Q1 \*contribuție egală cu primul autor

- 5) Voinea IC, Alistar CF, Banciu A, Popescu RG, Voicu SN, Nita-Lazar M, Vasile GG, Gheorghe S, Croitoru AM, Dolete G, Mihaiescu DE, Ficai A, Popa M, Marutescu L, Pircalabioru GG, Craciun N, Avramescu S, Marinescu GC, Chifiriuc MC, **Stan MS\***, Dinischiotu A. Snapshot of the pollution-driven metabolic and microbiota changes in *Carassius gibelio* from Bucharest leisure lakes. *Sci. Total Environ.* 2023, 884, 163810. Impact Factor: 9.8 (2022), Scor relativ de influență: 2.295 (2022). Q1 \*autor corespondent
- 6) Jawdhari A, Mihăilescu DF, **Stan MS**, Bălănescu M-V, Vlăsceanu R-I, Staicu CA, Crăciun N, Deák G. Ingestion of polyvinylchloride powder particles induces oxidative stress and hepatic histopathological changes in *Oreochromis niloticus* (Nile Tilapia)—a preliminary study. *Sustainability* 2023, 15(8), 6494. Impact Factor: 3.9 (2022), Scor relativ de influență: 0.843 (2022). Q3
- 7) Serban RM, Niculae D, Manda G, Neagoe I, Dobre M, Niculae DA, Temelie M, Mustăciosu C, Leonte RA, Chilug LE, Cornoiu MR, Cocioabă D, **Stan M**, Dinischiotu A. Modifications in cellular viability, DNA damage and stress responses inflicted in cancer cells by copper-64 ions. *Frontiers in Medicine* 2023, 10, 1197846. Impact Factor: 3.9 (2022), Scor relativ de influență: 1.519 (2022). Q2
- 8) Cepleanu-Pascu IA, **Stan M**, Cocioaba M, Stoica I. Easy method for six-fragment Golden Gate Assembly of modular vectors. *BioTechniques* 2023, 74(2), 85-99. Impact Factor: 2.7 (2022), Scor relativ de influență: 0.939 (2022). Q3
- 9) Nitulescu G, Mihai DP, Zanfirescu A, **Stan MS**, Gradinaru D, Nitulescu GM. Discovery of new microbial collagenase inhibitors. *Life* 2022; 12(12), 2114. Impact Factor: 3.2 (2022), Scor relativ de influență: 1.106 (2022). Q2
- 10) Chirila L, Popescu A, Cerempei A, Constantinescu RR, Olaru S, **Stan MS\***. Eco-friendly antibacterial and biocompatible coatings by applying cinnamon essential oil and propolis based emulsions on cotton textiles. *J. Nat. Fibers* 2022, 19(16), 14435-14448. Impact Factor: 3.5 (2022), Scor relativ de influență: 1.723 (2022). Q1 \*autor corespondent
- 11) Florea DA, Grumezescu V, Bîrcă AC, Vasile BȘ, Iosif A, Chircov C, **Stan MS**, Grumezescu AM, Andronescu E, Chifiriuc MC. Bioactive hydroxyapatite-magnesium phosphate coatings deposited by MAPLE for preventing infection and promoting orthopedic implants osteointegration. *Materials* 2022; 15(20), 7337. Impact Factor: 3.4 (2022), Scor relativ de influență: 1.659 (2022). Q1
- 12) Florea DA, Grumezescu V, Bîrcă AC, Vasile BȘ, Mușat M, Chircov C, **Stan MS**, Grumezescu AM, Andronescu E, Chifiriuc MC. Design, characterization, and antibacterial performance of MAPLE-deposited coatings of magnesium phosphate-containing silver nanoparticles in biocompatible concentrations. *Int. J. Mol. Sci.* 2022, 23(14), 7910. Impact Factor: 5.6 (2022), Scor relativ de influență: 2.264 (2022). Q2
- 13) Alistar CF, Nica IC, Nita-Lazar M, Vasile GG, Gheorghe S, Croitoru A-M, Dolete G, Mihaiescu DE, Ficai A, Craciun N, Gradisteanu Pircalabioru G, Chifiriuc MC, **Stan MS\***, Dinischiotu A. Antioxidative defense and gut microbial changes under pollution stress in *Carassius gibelio* from bucharest lakes. *Int. J. Environ. Res. Public Health* 2022, 19(12), 7510. Impact Factor: 2.468 (2022), Scor relativ de influență: 0 (2022). Q3 \*autor corespondent
- 14) Negut I, Ristoscu C, Tozar T, Dinu M, Parau AC, Grumezescu V, Hapenciuc C, Popa M, **Stan MS**, Marutescu L, Mihaiescu IN, Chifiriuc MC. Implant surfaces containing bioglasses and ciprofloxacin as platforms for bone repair and improved resistance to microbial colonization. *Pharmaceutics* 2022, 14(6), 1175. Impact Factor: 5.4 (2022), Scor relativ de influență: 1.174 (2022). Q2
- 15) Caciandone M, Niculescu A-G, Grumezescu V, Bîrcă AC, Ghica IC, Vasile BȘ, Oprea O, Nica IC, **Stan MS**, Holban AM, Grumezescu AM, Anghel I, Anghel AG. Magnetite nanoparticles

- functionalized with therapeutic agents for enhanced ENT antimicrobial properties. *Antibiotics* 2022, 11(5), 623. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.174 (2022). Q2
- 16) Gheorghe S, **Stan MS\***, Mitroi DN, Staicu AC, Cicirma M, Lucaciu IE, Nita-Lazar M, Dinischiotu A. Oxidative stress and histopathological changes in gills and kidneys of *Cyprinus carpio* following exposure to benzethonium chloride, a cationic surfactant. *Toxics* 2022, 10(5), 227. Impact Factor: 4.6 (2022), Scor relativ de influență: 1.259 (2022). Q1 \*autor corespondent
  - 17) Nica IC, Miu BA, **Stan MS\***, Diamandescu L, Dinischiotu A. Could iron-nitrogen doping modulate the cytotoxicity of TiO<sub>2</sub> nanoparticles? *Nanomaterials* 2022; 12(5):770. Impact Factor: 5.3 (2022), Scor relativ de influență: 1.557 (2022). Q2 \*autor corespondent
  - 18) Caciandone M, Niculescu A-G, Roșu AR, Grumezescu V, Negut I, Holban AM, Oprea O, Vasile BȘ, Bîrcă AC, Grumezescu AM, **Stan MS**, Anghel AG, Anghel I. PEG-functionalized magnetite nanoparticles for modulation of microbial biofilms on voice prosthesis. *Antibiotics* 2022; 11(1), 39. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.174 (2022). Q2
  - 19) Lungulescu E-M, Setnescu R, Pătroi EA, Lungu MV, Pătroi D, Ion I, Fierăscu R-C, Șomoghi R, **Stan M**, Nicula N-O. High-efficiency biocidal solution based on radiochemically synthesized Cu-Au alloy nanoparticles. *Nanomaterials* 2021; 11(12):3388. *Nanomaterials* 2021, 11, 323. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
  - 20) Spirescu VA, Niculescu A-G, Slave Ș, Bîrcă AC, Dorcioman G, Grumezescu V, Holban AM, Oprea O-C, Vasile BȘ, Grumezescu AM, Nica IC, **Stan MS**, Andronescu E. Anti-biofilm coatings based on chitosan and lysozyme functionalized magnetite nanoparticles. *Antibiotics* 2021, 10(10), 1269. Impact Factor: 5.222 (2021), Scor relativ de influență: 1.256 (2021). Q2
  - 21) Avram S, **Stan MS**, Udrea AM, Buiu C, Boboc AA, Mernea M. 3D-ALMOND-QSAR models to predict the antidepressant effect of some natural compounds. *Pharmaceutics* 2021, 13(9), 1449. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
  - 22) Nica IC, **Stan MS\***, Popescu RG, Nicula N, Ducu R, Diamandescu L, Dinischiotu A. Fe-N co-doped titanium dioxide nanoparticles induce cell death in human lung fibroblasts in a p53-independent manner. *Int. J. Mol. Sci.* 2021, 22(17), 9627. Impact Factor: 6.208 (2021), Scor relativ de influență: 2.103 (2021). Q2 \*autor corespondent
  - 23) Puiu RA, Balaure PC, Constantinescu E, Grumezescu AM, Andronescu E, Oprea O, Vasile BS, Grumezescu V, Negut I, Nica IC, **Stan MS**. Anti-cancer nanopowders and MAPLE-fabricated thin coatings based on SPIONs surface modified with paclitaxel loaded  $\beta$ -cyclodextrin. *Pharmaceutics* 2021, 13(9), 1356. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021).Q2 \*ultimul autor
  - 24) Karkossa I, Bannuscher A, Hellack B, Wohlleben W, Laloy J, **Stan MS**, Dinischiotu A, Wiemann M, Luch A, Haase A, von Bergen M, Schubert K. Nanomaterials induce different levels of oxidative stress, depending on the used model system: Comparison of in vitro and in vivo effects. *Sci. Total Environ.* 2021, 801, 149538. Impact Factor: 10.753 (2021), Scor relativ de influență: 2.233 (2021). Q1
  - 25) Brandão F, Costa C, Bessa MJ, Dumortier E, Debaq-Chainiaux F, Hubaux R, Salmon M, Laloy J, **Stan MS**, Hermenean A, Gharbia S, Dinischiotu A, Bannuscher A, Hellack B, Haase A, Fraga S, Teixeira JP. Genotoxicity and gene expression in the rat lung tissue following instillation and inhalation of different variants of amorphous silica nanomaterials (aSiO<sub>2</sub> NM). *Nanomaterials* 2021, 11(6), 1502. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
  - 26) Onita B, Albu P, Herman H, Balta C, Lazar V, Fulop A, Baranyai E, Harangi S, Keki S, Nagy L, Nagy T, Józsa V, Gál D, Györe K, **Stan M**, Hermenean A, Dinischiotu A. Correlation between heavy metal-induced histopathological changes and trophic interactions between different fish species. *Appl. Sci.* 2021, 11(9), 3760. Impact Factor: 2.838 (2021), Scor relativ de influență: 0.885 (2021). Q3

- 27) Scomoroscenco C, Teodorescu M, Raducan A, **Stan M**, Voicu SN, Trica B, Ninciuleanu CM, Nistor CL, Mihaescu CI, Petcu C, Cinteza LO. Novel gel microemulsion as topical drug delivery system for curcumin in dermatocosmetics. *Pharmaceutics* 2021, 13(4), 505. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
- 28) Tănase MA, Raducan A, Oancea P, Dițu LM, **Stan M**, Petcu C, Scomoroscenco C, Ninciuleanu CM, Nistor CL, Cinteza LO. Mixed Pluronic—Cremophor polymeric micelles as nanocarriers for poorly soluble antibiotics—the influence on the antibacterial activity. *Pharmaceutics* 2021, 13(4), 435. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
- 29) Gherasim O, Grumezescu AM, Grumezescu V, Negut I, Dumitrescu MF, **Stan MS**, Nica IC, Holban AM, Socol G, Andronescu E. Bioactive coatings based on hydroxyapatite, kanamycin and growth factor for biofilm modulation. *Antibiotics* 2021, 10, 160. Impact Factor: 5.222 (2021), Scor relativ de influență: 1.256 (2021). Q2
- 30) **Stan MS**, Badea S, Hermenean A, Hildegard H, Trica B, Sbarcea BG, Dinischiotu A. New insights into the cell death signaling pathways triggered by long-term exposure to silicon-based quantum dots in human lung fibroblasts. *Nanomaterials* 2021, 11, 323. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
- 31) Popescu-Pelin G, Ristoscu C, Duta L, Pasuk I, Stan GE, **Stan MS**, Popa M, Chifiriuc MC, Hapenciuc CL, Oktar FN, Nicarel A, Mihailescu IN. Fish bone derived bi-phasic calcium phosphate coatings fabricated by pulsed laser deposition for biomedical applications. *Marine Drugs* 2020, 18, 623. Impact Factor: 5.118 (2020), Scor relativ de influență: 1.337 (2020). Q2
- 32) Gheorghe S, Mitroi DN, **Stan MS\***, Staicu CA, Cicirma M, Lucaciu IE, Nita-Lazar M, Dinischiotu A. Evaluation of sub-lethal toxicity of benzethonium chloride in *Cyprinus carpio* liver. *Appl. Sci.* 2020, 10, 8485. Impact Factor: 2.679 (2020), Scor relativ de influență: 0.923 (2020). Q3 \*autor corespondent
- 33) Bannuscher A, Hellack B, Bahl A, Laloy J, Herman H, **Stan MS**, Dinischiotu A, Giusti A, Krause BC, Tentschert J, Rosu M, Balta C, Hermenean A, Wiemann M, Luch A, Haase A. Metabolomics profiling to investigate nanomaterial toxicity in vitro and in vivo. *Nanotoxicology* 2020, 14(6), 807-826. Impact Factor: 5.913 (2020), Scor relativ de influență: 1.597 (2020). Q1
- 34) Marinescu G, Culita D, Romanitan C, Somacescu S, Ene CD, Marinescu V, Negreanu DG, Maxim C, Popa M, Marutescu L, **Stan M**, Chifiriuc C. Novel hybrid materials based on heteroleptic Ru(III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents. *Appl. Surf. Sci.* 2020, 520, 146379. Impact Factor: 6.707 (2020), Scor relativ de influență: 2.163 (2020). Q1
- 35) Popescu-Pelin G, Ristoscu C, Duta L, Stan GE, Pasuk I, Tite T, **Stan MS**, Bleotu C, Popa M, Chifiriuc MC, Oktar FN, Nicarel A, Mihailescu IN. Antimicrobial and cytocompatible bovine hydroxyapatite-alumina-zeolite composite coatings synthesized by pulsed laser deposition from low-cost sustainable natural resources. *ACS Sustain. Chem. Eng.* 2020, 8(10), 4026-4036. Impact Factor: 8.198 (2020), Scor relativ de influență: 3.314 (2020). Q1
- 36) Scarisoreanu M, Ilie AG, Goncarencu E, Banici AM, Morjan IP, Dutu E, Tanasa E, Fort I, **Stan M**, Mihailescu CN, Fleaca C. Ag, Au and Pt decorated TiO<sub>2</sub> biocompatible nanospheres for UV & vis photocatalytic water treatment. *Appl. Surf. Sci.* 2020, 509(15), 145217. Impact Factor: 6.707 (2020), Scor relativ de influență: 2.163 (2020). Q1
- 37) **Stan MS\***, Mernea M, Cristian RE, Mohammad IJ, Sbarcea BG, Trica B, Dinischiotu A. Correlating the serum albumin corona of zinc oxide nanoparticles with their physico-chemical properties. *Rom. Rep. Phys.* 2020, 72(1), 602. Impact Factor: 2.147 (2020), Scor relativ de influență: 0.532 (2020). Q4 \*autor corespondent
- 38) Cristian RE, Mohammad IJ, Mernea M, Sbarcea BG, Trica B, **Stan MS\***, Dinischiotu A. Analyzing the interaction between two different types of nanoparticles and serum albumin.

- Materials* 2019, 12(19), 3183. Impact Factor: 3.057 (2019), Scor relativ de influență: 1.173 (2019).Q2 \*autor corespondent
- 39) **Stan MS**, Voicu SN, Caruntu S, Nica IC, Olah NK, Burtescu R, Balta C, Rosu M, Herman H, Hermenean A, Dinischiotu A. Antioxidant and anti-inflammatory properties of a *Thuja occidentalis* mother tincture for the treatment of ulcerative colitis. *Antioxidants* 2019, 8(9), 416. Impact Factor: 5.014 (2019), Factor relativ de impact: 1.558 (2019). Q1
- 40) **Stan MS**, Nica IC, Popa M, Chifiriuc MC, Iordache O, Dumitrescu I, Diamandescu L, Dinischiotu A. Reduced graphene oxide/TiO<sub>2</sub> nanocomposites coating of cotton fabrics with antibacterial and self-cleaning properties. *J. Ind. Text.* 2019, 49(3), 277-293. Impact Factor: 2.010 (2019), Scor relativ de influență: 1.648 (2019). Q1
- 41) **Stan MS\***, Chirila L, Popescu A, Radulescu DM, Radulescu DE, Dinischiotu A. Essential oil microcapsules immobilized on textiles and certain induced effects. *Materials* 2019, 12(12), 2029. Impact Factor: 3.057 (2019), Scor relativ de influență: 1.173 (2019). Q1 \*autor corespondent
- 42) Voicu SN, Hermenean A, Olah NK, Badulescu L, **Stan MS\***, Dinischiotu A. Designing new mother tinctures for increased antioxidant efficiency on inflammatory intestinal diseases. *Farmacia* 2019, 67(2), 290-295. Impact Factor: 1.607 (2019), Scor relativ de influență: 0.201 (2019). Q4 \*autor corespondent
- 43) Voicu SN, Balas M, **Stan MS**, Trică B, Serban AI, Stanca L, Hermenean A, Dinischiotu A. Amorphous silica nanoparticles obtained by laser ablation induce inflammatory response in human lung fibroblasts. *Materials* 2019, 12(7), 1026. Impact Factor: 3.057 (2019), Scor relativ de influență: 1.173 (2019). Q1
- 44) Balaure PC, Holban AM, Grumezescu AM, Mogoșanu GD, Bălșeanu TA, **Stan MS**, Dinischiotu A, Volceanov A, Mogoantă L. In vitro and in vivo studies of novel fabricated bioactive dressings based on collagen and zinc oxide 3D scaffolds. *Int. J. Pharm.* 2019, 557, 199-207. Impact Factor: 4.845 (2019), Scor relativ de influență: 1.129 (2019). Q2
- 45) Strugari AFG, **Stan MS\***, Gharbia S, Hermenean A, Dinischiotu A. Characterization of nanoparticle intestinal transport using an in vitro co-culture model. *Nanomaterials* 2019, 9(1), 5. Impact Factor: 4.324 (2019), Scor relativ de influență: 1.449 (2019). Q2 \*autor corespondent
- 46) **Stan MS**, Badea MA, Pircalabioru GG, Chifiriuc MC, Diamandescu L, Dumitrescu I, Trica B, Lambert C, Dinischiotu A. Designing cotton fibers impregnated with photocatalytic graphene oxide/Fe, N-doped TiO<sub>2</sub> particles as prospective industrial self-cleaning and biocompatible textiles. *Mat. Sci. Eng. C* 2019, 94, 318-332. Impact Factor: 5.880 (2019), Scor relativ de influență: 1.351 (2019). Q1
- 47) Visinescu DB, Hussien MD, Negrea R, Calderon-Moreno JM, Schomi S, Ene CD, Barjega R, Chifiriuc CM, Popa M, **Stan M**, Carp O. Zinc oxide spherical-shaped nanostructures: investigation of surface reactivity and interactions with microbial and mammalian cells. *Langmuir* 2018, 34(45), 13638–13651. Impact Factor: 3.683 (2018), Scor relativ de influență: 2.307 (2018). Q2
- 48) Gharbia S, Balta C, Herman H, Rosu M, Váradi J, Bácskay I, Vecsernyés M, Gyöngyösi S, Fenyvesi F, Voicu SN, **Stan MS**, Cristian RE, Dinischiotu A, Hermenean A. Enhancement of silymarin anti-fibrotic effects by complexation with hydroxypropyl (HPBCD) and randomly methylated (RAMEB)-cyclodextrins in a mouse model of liver fibrosis. *Front. Pharmacol.* 2018, 9, 883. Impact Factor: 3.845 (2018), Scor relativ de influență: 1.747 (2018). Q1
- 49) **Stan M**, Cinteza LO, Petrescu L, Mernea MA, Calborean O, Mihailescu DF, Sima C, Dinischiotu A. Dynamic analysis of the interactions between Si/SiO<sub>2</sub> quantum dots and biomolecules for improving applications based on nano-bio interfaces. *Sci. Rep.* 2018, 8, 5289. Impact Factor: 4.011 (2017), Scor relativ de influență: 2.350 (2018). Q2
- 50) Anghel N, Herman H, Balta C, Rosu M, **Stan MS**, Nita D, Ivan A, Galajda Z, Ardelean A, Dinischiotu A, Hermenean A. Acute cardiotoxicity induced by doxorubicin in right ventricle is

- associated with increase of oxidative stress and apoptosis in rats. *Histol. Histopathol.* 2018, 33, 365-378. Impact Factor: 1.777 (2018), Scor relativ de influență: 0.855 (2018). Q3
- 51) Stanica L, Rosu-Hamzescu M, Gheorghiu M, **Stan M**, Antonescu L, Polonschii C, Gheorghiu E. Electric cell-substrate impedance sensing of cellular effects under hypoxic conditions and carbonic anhydrase inhibition. *J. Sens.* 2017, vol. 2017, Article ID 9290478, 10 pages. Impact Factor: 2.057 (2017), Scor relativ de influență: 1.000 (2017). Q3
- 52) Hermenean A, Gheorghiu G, **Stan MS**, Herman H, Onita B, Ardelean DP, Ardelean A, Braun M, Zsuga M, Kéki S, Costache M, Dinischiotu A. Biochemical, histopathological and molecular responses in gills of *Leuciscus cephalus* exposed to metals. *Arch. Environ. Contam. Toxicol.* 2017, 73(4), 607-618. Impact Factor: 2.421 (2017), Scor relativ de influență: 0.904 (2017). Q3
- 53) Nica IC, **Stan MS\***, Popa M, Chifiriuc MC, Pircalabioru GG, Lazar V, Dumitrescu I, Diamandescu L, Feder M, Baibarac M, Cernea M, Maraloiu VA, Popescu T, Dinischiotu A. Development and biocompatibility evaluation of photocatalytic TiO<sub>2</sub>/reduced graphene oxide-based nanoparticles designed for self-cleaning purposes. *Nanomaterials* 2017, 7(9), 279. Impact Factor: 3.504 (2017), Scor relativ de influență: 1.578 (2017). Q2 \*autor corespondent
- 54) Stanica L, Gheorghiu M, **Stan M**, Polonschii C, David S, Bratu D, Dinischiotu A, Supuran CT, Gheorghiu E. Quantitative assessment of specific carbonic anhydrase inhibitors effect on hypoxic cells using electrical impedance assays. *J. Enzyme Inhib. Med. Chem.* 2017, 32(1), 1079-1090. Impact Factor: 3.638 (2017), Scor relativ de influență: 0.961 (2017). Q2
- 55) Ionita D, Vardaki M, **Stan MS**, Dinischiotu A, Demetrescu I. Enhance stability and in vitro cell response to a bioinspired coating on Zr alloy with increasing chitosan content. *J. Bionic Eng.* 2017, 14, 459–467. Impact Factor: 2.325 (2017), Scor relativ de influență: 1.065 (2017). Q2
- 56) Balas M, Ciobanu CS, Burtea C, **Stan MS**, Bezirtzoglou E, Predoi D, Dinischiotu A. Synthesis, characterization, and toxicity evaluation of dextran-coated iron oxide nanoparticles. *Metals* 2017, 7(2), 63. Impact Factor: 1.704 (2017), Scor relativ de influență: 1.400 (2017). Q2
- 57) Nica IC, **Stan MS**, Popa M, Chifiriuc MC, Lazar V, Pircalabioru GG, Dumitrescu I, Feder M, Ignat M, Tanase LC, Mercioniu I, Diamandescu L, Dinischiotu A. Interaction of new-developed TiO<sub>2</sub>-based photocatalytic nanoparticles with pathogenic microorganisms and human dermal and pulmonary fibroblasts. *Int. J. Mol. Sci.* 2017, 18(2), 249. Impact Factor: 3.687 (2017), Scor relativ de influență: 2.522 (2017). Q2
- 58) Nica IC, **Stan MS**, Dinischiotu A, Popa M, Chifiriuc MC, Lazar V, Pircalabioru GG, Iordache OG, Berzirtzoglou E, Varzaru E, Dumitrescu I, Feder M, Vasiliu F, Mercioniu I, Diamandescu L. Innovative self-cleaning and biocompatible polyester textiles nano-decorated with Fe–N-doped titanium dioxide. *Nanomaterials* 2016, 6(11), 214. Impact Factor: 3.553 (2016), Scor relativ de influență: 1.805 (2016). Q2
- 59) Gălățeanu B, Golgovici F, Hudita A, **Stan M**, Dinescu S, Costache M, Demetrescu I, Popescu A. About electrochemical stability and biocompatibility of two types of CoCr commercial dental alloys. *Mater. Corros.* 2016, 67, 1096-1104. Impact Factor: 1.208 (2016), Scor relativ de influență: 1.335 (2016). Q4
- 60) **Stan MS**, Nica IC, Dinischiotu A, Varzaru E, Iordache OG, Dumitrescu I, Popa M, Chifiriuc MC, Pircalabioru GG, Lazar V, Berzirtzoglou E, Feder M, Diamandescu L. Photocatalytic, antimicrobial and biocompatibility features of cotton knit coated with Fe-N-doped titanium dioxide nanoparticles. *Materials* 2016, 9(9), 789. Impact Factor: 2.654 (2016), Scor relativ de influență: 1.567 (2016). Q1
- 61) Rădulescu D, Grumezescu V., Andronescu E., Holban AM, Grumezescu AM, Socol G, Oprea AE, Rădulescu M, Surdu A, Trusca R, Rădulescu R, Chifiriuc MC, **Stan MS**, Constanda S, Dinischiotu A. Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated

- by MAPLE technique for the prevention of bone implant associated infections. *Appl. Surf. Sci.* 2016, 374, 387-396. Impact Factor: 3.387 (2016), Scor relativ de influență: 1.685 (2016). Q1
- 62) **Stan MS**, Constanda S, Grumezescu V, Andronescu E, Ene AM, Holban AM, Vasile BS, Mogoantă L, Bălșeanu TA, Mogoșanu GD, Socol G, Grumezescu AM, Dinischiotu A, Lazar V, Chifiriuc CM. Thin coatings based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE inhibit the development of *Salmonella enterica* early biofilm growth. *Appl. Surf. Sci.* 2016, 374, 318-325. Impact Factor: 3.387 (2016), Scor relativ de influență: 1.685 (2016). Q1
- 63) Constanda S., **Stan MS\***, Ciobanu CS, Motelica-Heino M, Guégan R, Lafdi K, Dinischiotu A, Predoi D. Carbon nanotubes-hydroxyapatite nanocomposites for an improved osteoblast cell response. *J. Nanomater.* 2016, vol. 2016, Article ID 3941501, 10 pages. Impact Factor: 1.871 (2016), Scor relativ de influență: 1.100 (2016). Citări: 7. \*contribuție egală cu primul autor. Q3
- 64) Cojocaru SI, **Stan MS\***, Anton M, Luca MR, Ghiorghita G, Stoian G, Dinischiotu A. The cytotoxic activity of sanguinarine in C32 human amelanotic melanoma cells. *Turk. J. Biol.* 2016, 40(1), 130-138. Impact Factor: 1.038 (2016), Scor relativ de influență: 0.450 (2016). \*autor corespondent și contribuție egală cu primul autor. Q4
- 65) Vasilescu VG, **Stan MS**, Pătrașcu I, Dinischiotu A, Vasilescu E. In vitro testing of materials biocompatibility with controlled chemical composition. *Rev. Romana Mater. / Rom. J. Mater.* 2015, 45(4), 315-323. Impact Factor: 0.33 (2015), Scor relativ de influență: 0.148 (2015). Q4
- 66) Petrache Voicu SN, Dinu D, Sima C, Hermenean A, Ardelean A, Codrici E, **Stan MS**, Zărnescu O, Dinischiotu A. Silica nanoparticles induce oxidative stress and autophagy but not apoptosis in the MRC-5 cell line. *Int. J. Mol. Sci.* 2015, 16(12), 29398-29416. Impact Factor: 3.213 (2015); Scor relativ de influență: 2.221 (2015). Q2
- 67) **Stan MS**, Sima C, Cinteza LO, Dinischiotu A. Silicon-based quantum dots induce inflammation in human lung cells and disrupt extracellular matrix homeostasis. *FEBS J.* 2015, 282(15), 2914-2929. Impact Factor: 4.237 (2015), Scor relativ de influență: 1.660 (2015). Q2
- 68) Hermenean A, **Stan M**, Ardelean A., Pilat L., Mihali CV, Popescu C, Nagy L, Deák G, Zsuga M, Kéki S, Bácskay I, Fenyvesi F, Costache M, Dinischiotu A, Vecsernyés M. Antioxidant and hepatoprotective activity of milk thistle (*Silybum marianum* L. Gaertn.) seed oil. *Open Life Sci.* 2015, 10(1), 147-158. Impact Factor: 0.814 (2015), Scor relativ de influență: 0.476 (2015). Q4
- 69) Prodana M, Duta M, Ionita D, Bojin D, **Stan MS**, Dinischiotu A, Demetrescu I. A new complex ceramic coating with carbon nanotubes, hydroxyapatite and TiO<sub>2</sub> nanotubes on Ti surface for biomedical applications. *Ceramics Int.* 2015, 41, 6318-6325. Impact Factor: 2.758 (2015), Scor relativ de influență: 3.000 (2015). Q1
- 70) **Stan MS**, Memet I, Fratila C, Krasicka-Cydzik E, Roman I, Dinischiotu A. Effects of titanium-based nanotube films on osteoblast behavior in vitro. *J. Biomed. Mater. Res. A* 2015, 103(1), 48-56. Impact Factor: 3.263 (2015), Scor relativ de influență: 1.309 (2015). Q2
- 71) Roman I, Soare ML, Trusca RD, Fratila C, Krasicka-Cydzik E, **Stan MS**, Dinischiotu A. Electrochemical biosensitivity of titania nanotubes towards alkaline phosphatase, IL-6 and IL-8 interleukins biomarkers. *J. Electrochem. Soc.* 2014, 161(14), B275-B282. Impact Factor: 3.266 (2014), Scor relativ de influență: 2.016 (2014). Q1
- 72) **Stan MS**, Memet I, Sima C, Popescu T, Teodorescu VS, Hermenean A, Dinischiotu A. Si/SiO<sub>2</sub> quantum dots cause cytotoxicity in lung cells through redox homeostasis imbalance. *Chem. Biol. Interact.* 2014, 220C, 102-115. Impact Factor: 2.577 (2014), Scor relativ de influență: 1.099 (2014). Q2
- 73) Popa CL, Ciobanu CS, Iconaru SL, **Stan M**, Dinischiotu A, Negrila CC, Motelica-Heino M, Guegan R, Predoi D. Systematic investigation and in vitro biocompatibility studies on mesoporous europium doped hydroxyapatite. *Open Chem.* 2014, 12(10), 1032-1046. Impact Factor: 1.329 (2014), Scor relativ de influență: 0.837 (2013). Q3

- 74) Hermenean A, Ardelean A, **Stan M**, Hadaruga N, Mihali CV, Costache M, Dinischiotu A. Antioxidant and hepatoprotective effects of naringenin and its  $\beta$ -cyclodextrin formulation in mice intoxicated with carbon tetrachloride: a comparative study. *J. Med. Food* 2014, 17(6), 670-677. Impact Factor: 1.626 (2014), Scor relativ de influență: 1.088 (2014). Citări: 21. Q3
- 75) Roman I, Trusca RD, Soare ML, Fratila C, Krasicka-Cydzik E, **Stan MS**, Dinischiotu A. Titanium dioxide nanotube films: Preparation, characterization and electrochemical biosensitivity towards alkaline phosphatase. *Mater. Sci. Eng. C Mater. Biol. Appl.* 2014, 37, 374-382. Impact Factor: 3.088 (2014), Scor relativ de influență: 0.961 (2014). Citări: 14. Q1
- 76) Hermenean A, Ardelean A, **Stan M**, Herman H, Mihali CV, Costache M, Dinischiotu A. Protective effects of naringenin on carbon tetrachloride-induced acute nephrotoxicity in mouse kidney. *Chem. Biol. Interact.* 2013, 205(2), 138-147. Impact Factor: 2.982 (2013); Scor relativ de influență: 1.124 (2013). Q2
- 77) Hermenean A, Popescu C, Ardelean A, **Stan M**, Hadaruga N, Mihali CV, Costache M, Dinischiotu A. Hepatoprotective effects of *Berberis vulgaris* L. extract/ $\beta$  cyclodextrin on carbon tetrachloride – induced acute toxicity in mice. *Int. J. Mol. Sci.* 2012, 13(7), 9014-9034. Impact Factor: 2.464 (2012); Scor relativ de influență: 2.088 (2012). Q2
- 78) Ciobanu CS, Massuyeau F, Andronescu E, **Stan MS**, Dinischiotu A, Predoi D. Biocompatibility study of europium doped crystalline hydroxyapatite bioceramics. *Dig. J. Nanomater. Biostruct.* 2011, 6(4), 1639-1647. Impact Factor: 1.2 (2011); Scor relativ de influență: 0.00 (2011). Q4

#### **V. Articole publicate în reviste BDI**

- 1) Cojocaru S., **Stan M.S.**, Stoian G., Dinischiotu A. Effects of *Zingiber officinale roscoe* fresh extract on amelanotic melanoma and normal skin fibroblasts. *Rev. Med. Chir. Soc. Med. Nat. Iași* 2015, 119(2), 592-596.
- 2) Moreau J, Callewaert M, Malyskyi V, Henoumont C, Voicu SN, **Stan MS**, Molinari M, Cadiou C, Laurent S, Chuburu F. Fluorescent chitosan-based nanohydrogels and encapsulation of gadolinium MRI contrast agent for magneto-optical imaging. *Carbohydrate Polymer Technologies and Applications* 2021, 2, 100104.

#### **VI. Articole publicate în reviste cu ISSN (non-BDI)**

- 1) **Stan MS**, Badea MA, Strugari AFG. Carbon nanotubes: properties, applications and toxicity. *Rev. Biol. Biomed. Sci.* 2019, 2(1), 12-18.
- 2) Nica IC., **Stan M.S.**, Dinischiotu A. Current photocatalytic applications of nano-scaled titanium dioxide in the new era of "smart" technologies. *Rev. Biol. Biomed. Sci.* 2018, 1(2), 43-53.
- 3) Cojocaru S., **Stan M.S.**, Ciornea E., Cojocaru D., Ghiorghita G., Dinischiotu A., Stoian G., "Studies regarding the chromatographic separation of some *Chelidonium majus* L. alkaloids using different solvent systems" - *Analele științifice ale Universității "Alexandru Ioan Cuza" din Iași, Secțiunea II a. Genetică și Biologie Moleculară* 2010, Tom XI, fasc.4/2010, 97-105.
- 4) Cojocaru S., Anton M., **Stan M.S.**, Ciornea E., Ghiorghita G., Dinischiotu A., Stoian G., "Studies regarding the analysis of different extraction condition for the separation of *Chelidonium majus* L. alkaloids" - *Analele științifice ale Universității "Alexandru Ioan Cuza" din Iași, Secțiunea II a. Genetică și Biologie Moleculară* 2010, Tom XI, fasc.4/2010, 107-115.

#### **VII. Lucrări publicate sub formă de rezumat la conferințe internaționale**

- 1) Dula A.G., **Stan M.S.** "Fluorescent PLGA nanoparticles: in vitro toxicity study using a co-culture of human keratinocytes and dermal fibroblasts", NanoInnovation2023, 18-22 September 2023. [https://www.nanoinnovation2023.eu/home/POSTER/STAN\\_Miruna.mp4](https://www.nanoinnovation2023.eu/home/POSTER/STAN_Miruna.mp4) (POSTER)

- 2) Voinea I.C., Voicu S., Mernea M., Miu B., Serban M., **Stan M.** “Using EpiDerm<sup>TM</sup> to evaluate the toxic effects of P25 Degussa nanoparticles on skin barrier”, The 4th International Online Conference on Nanomaterials, 5–19 May 2023, MDPI: Basel, Switzerland, Online. <https://sciforum.net/paper/view/14460> (POSTER)
- 3) Voicu S.N., Voinea I.C., **Stan M.S.** “Assessment of the in vitro toxicity induced by rare earth-doped phosphor nanoparticles on human lung fibroblast cells”, NanoBioMat2022 winter edition, 24-26 November 2022, Online. (POSTER)
- 4) **Stan M.S.**, Voinea I.C., Voicu S.N. “In vitro evaluation of rare earth-doped phosphor nanoparticles to assess their anti-tumoral efficiency on lung cancer cells”, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, *Med. Sci. Forum* 2022, 14, 9. <https://doi.org/10.3390/ECMC2022-13312> (POSTER)
- 5) Mernea M., Satmaru M., Toma A., Nițu C., Mihailescu D., Avram S., **Stan M.** “A molecular docking study on natural compounds as anxiolytics and antidepressants”, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, *Med. Sci. Forum* 2022, 14, 103. <https://doi.org/10.3390/ECMC2022-13412> (POSTER)
- 6) Popa V., Avramescu S., **Stan M.** “Extraction of anthocyanins from black currants and in vitro testing for the determination of antioxidant activity”, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, <https://doi.org/10.3390/ECMC2022-13437> (POSTER)
- 7) Nica I.C., Miu B.A., **Stan M.S.**, Dinischiotu A. “Lysosomal changes induced by functionalized TiO<sub>2</sub> nanoparticles in human lung fibroblasts”. FEBS Advanced 2022 Lecture Course 360o Lysosome: from structure to genomics, from function to disease-Update. 4-9 Octombrie 2022, Kusadasi, Turcia. (POSTER)
- 8) **Stan M.S.**, Nica I.C., Nițu C.D., Raduly M., Dinischiotu A., Avram S., Mihailescu D., Mernea M. “The potential of curcumin derivatives to induce autophagy in cervix cancer cells”. FEBS Advanced 2022 Lecture Course 360o Lysosome: from structure to genomics, from function to disease-Update. 4-9 Octombrie 2022, Kusadasi, Turcia. (PREZENTARE ORALĂ)
- 9) Nica I.C., Miu B., **Stan M.S.**, Diamandescu L., Dinischiotu A. “Could iron/nitrogen doping influence the cytotoxicity of TiO<sub>2</sub> nanoparticles?”, NanoInnovation2021, 21-24 September 2021. [https://www.nanoinnovation2021.eu/home/poster/NICA\\_Cristina.pdf](https://www.nanoinnovation2021.eu/home/poster/NICA_Cristina.pdf) (POSTER)
- 10) **Stan M.S.**, Sbarcea B., Trica B., Lambert C., Dinischiotu A. “Assessment of the in vitro biocompatibility of graphene quantum dots”, NanoInnovation2021, 21-24 September 2021. <https://www.nanoinnovation2021.eu/home/index.php/programme/posters/poster-session>.(POSTER)
- 11) Pelcaru F.C., Nica I.C., **Stan M.S.**, Dinischiotu A., *Risk assessment study on Carassius gibelio fish collected from water bodies from Bucharest*”, The 9th World Sustainability Forum, 13–15 September 2021, Online, p. 167. <https://wsf-9.sciforum.net/> (POSTER)
- 12) Nitu C.D., Raduly M., Mihailescu D., Avram S., Matanie C., Mernea M., **Stan M.S.** “Evaluating the ability of some curcumin derivatives to induce oxidative stress in cervix cancer”, Book of abstracts of the 2th International European Conference on Interdisciplinary Scientific Research, 8–9 August 2021, Warsaw, Poland, p. 366. (PREZENTARE ORALĂ)
- 13) **Stan M.S.**, Nica I.C., Nitu C.D., Raduly M., Dinischiotu A., Avram S., Mihailescu D., Mernea M., “In vitro study of curcumin derivatives with potential anti-tumor activity”, The 1st International Electronic Conference on Biomedicine, 1–26 June 2021. (POSTER)
- 14) Avram S., **Stan M.S.**, Udrea A.M., Buiu C., Mernea M., “The study of natural compounds as antidepressants by bioinformatics methods”, The 1st International Electronic Conference on Biomedicine, 1–26 June 2021, *Biol. Life Sci. Forum* 2021, 7, 17. (POSTER)

- 15) **Stan M.S.**, Grumezescu A. “*New developed magnetic nanoparticles as drug delivery systems for bone cancer*”, Book of abstracts of the 2nd Bucharest Polymer Conference, 9–11 June 2021, Bucharest, Romania. (PREZENTARE ORALĂ)
- 16) **Stan M.S.**, Dinischiotu A. “*Evaluating the capacity of several antioxidants to attenuate the renal toxicity induced by methotrexate therapy*”, The 1st International e-Conference on Antioxidants in Health and Disease, 1–15 December 2020, *Med. Sci. Forum* 2021, 2, 8. <https://doi.org/10.3390/CAHD2020-08597>. (POSTER)
- 17) **Stan M.S.**, Sbarcea B., Trica B., Dinischiotu A. “*Graphene quantum dots: physico-chemical characterization and in vitro biological effects*”, The 2nd International Online-Conference on Nanomaterials, session Graphene & 2D Nanomaterials & Soft Nanomaterials, 15-30 November 2020, *Mater. Proc.* 2021, 4, 27. <https://doi.org/10.3390/IOCN2020-07911>. (POSTER)
- 18) Cristian R.E., **Stan M.S.**, Dinischiotu A. “*Characterization of silicon quantum dots’ properties and kidney toxicity in mice*”, The 2nd International Online-Conference on Nanomaterials, session Posters, 15-30 November 2020 (doi:10.3390/IOCN2020-07849), *Proceedings* 2020, 4:x.(POSTER)
- 19) Voicu S.N., **Stan M.S.**, Nica I.C., Balas M., Moreau J., Cadiou C., Callewaert M., Chuburu F., Dinischiotu A. “*Biocompatibility and cellular uptake of fluorescent chitosan nanohydrogels in murine macrophages and B lymphocytes*”, The 2nd International Online-Conference on Nanomaterials, session Nanomedicine and Nanobiotechnology, 15-30 November 2020, *Mater. Proc.* 2021, 4(1), 10, <https://doi.org/10.3390/IOCN2020-07851>. (POSTER)
- 20) **Stan M.S.**, Nica I.C., Moreau J., Callewaert M., Cadiou C., Chuburu F., Herman H., Hermenean A., Dinischiotu A., Voicu S.N. “*Fluorescent chitosan nanogels developed for targeting endothelial cells of axillary lymph nodes*”, The 2nd International Online-Conference on Nanomaterials, session Nanomedicine and Nanobiotechnology, 15-30 November 2020, *Mater. Proc.* 2021, 4(1), 12; <https://doi.org/10.3390/IOCN2020-07847>. (POSTER)
- 21) Cristian R.E., **Stan M.S.**, Dinischiotu A. “*Characterization of silicon quantum dots’ properties and hepatic toxicity in mice*”, Book of Abstracts of the 15th International Conference on Chemical Engineering (ICCE2020), Iași, Romania, 28 – 30 October 2020, p. 43. (PREZENTARE ORALĂ)
- 22) **Stan M.S.**, Nica I.C., Dinischiotu A., Grumezescu V., Stoica A.E., Holban A.M., Grumezescu A. “*Novel coatings based on nanostructured Cefepime-functionalized magnetite for implantable devices*”, 2nd Coatings and Interfaces Web Conference, 15-31 May 2020 (doi:10.3390/CIWC2020-06817), *Materials Proceedings* 2020, 2:19. (POSTER)
- 23) Nica I.C., **Stan M.S.**, Dinischiotu A., Grumezescu V., Stoica A.E., Holban A.M., Grumezescu A. “*New advances on fibroblast growth factor-based coatings for hip replacement implants*”, 2nd Coatings and Interfaces Web Conference, 15-31 May 2020 (doi:10.3390/CIWC2020-06844), *Materials Proceedings* 2020, 2:9. (POSTER)
- 24) **Stan M.S.**, Cristian R.E., Mohammad I.J., Mernea M., Sbarcea B.G., Trica B., Dinischiotu A. “*Analyzing the interaction between different types of nanoparticles and serum albumin*”, 21st Romanian International Conference on Chemistry and Chemical Engineering, September 4-7, 2019, Constanta-Mamaia, Romania. (PREZENTARE ORALĂ)
- 25) Nica I.C., Dinischiotu A. **Stan M.S.** “*Genotoxic potential of TiO<sub>2</sub> nanoparticles with enhanced photocatalytic properties investigated by Comet assay in human lung cells*”. 13th International Comet Assay Workshop, 24-27 June, Pushchino, Moscow, Russia, p. 65 (ICAW 2019). (POSTER)
- 26) **Stan M.S.**, Voicu S.N., Herman H., Balta C., Hermenean A., Dinischiotu A. “*Targeting the extracellular matrix regulation with  $\beta$ -cyclodextrins-conjugated silymarin in a mouse model of fibrosis*”. Abstract Book of FEBS Advanced Lecture Course “Extracellular Matrix: Cell Regulation, Epigenetics and Modeling”, September 27th – October 2nd, 2018, Patras, Greece, p. 79. (PREZENTARE ORALĂ)

- 27) Strugari A., **Stan M.S.** “Nanoparticle intestinal transport characterization using in vitro co-culture models”. Proceedings of 1st International Online-Conference on Nanomaterials, 10.3390/IOCN\_2018-1-05480. (POSTER)
- 28) Nica I.C., Dinischiotu A. **Stan M.S.** “Titanium dioxide nanoparticles inactivate p53-mediated cell death in MRC-5 fibroblasts”. FEBS Open Bio 8 (Suppl. S1) (2018), p. 474 (FEBS 2018). (POSTER)
- 29) Voicu S.N., **Stan M.S.**, Hermenean A., Dinischiotu A. “Antioxidant effects of Ribes nigrum tincture against oxidative stress induced in human colon cancer”. FEBS Open Bio 8 (Suppl. S1) (2018), p. 288 (FEBS 2018). (POSTER)
- 30) **Stan M.S.**, Mernea M, Dinischiotu A. “Understanding the interactions between silicon quantum dots and biomolecules for improving applications based on nano-bio interfaces”. Abstracts Book of the 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology (EEBMB2017), November 10-12, 2017, Athens, Greece, p. 76. (PREZENTARE ORALĂ)
- 31) **Stan MS**, Voicu SN, Hermenean A, Dinischiotu A. “Study regarding the antioxidant and cytoprotective properties exhibited by mother tinctures obtained from several medicinal plants”. Book of Abstracts of First International Congress of Danube Region Botanical Gardens (Transdisciplinarity in Plant Science), September 7-9 2017, Arad-Macea, Romania, p. 85. (POSTER)
- 32) Dinischiotu A, Nica IC, **Stan M**, Dumitrescu I, Diamandescu L. “The biocompatibility of new developed TiO<sub>2</sub>-based photocatalytic nanoparticles on human skin and lung fibroblasts”. Abstract Book of the 3rd International Conference on Advances in Functional Materials (AFM 2017), 14-17 August 2017, Los Angeles, USA, p. 532. (POSTER)
- 33) Nica CI, **Stan MS**, Dumitrescu I, Diamandescu L, Chifiriuc C, Dinischiotu A. “Development and biocompatibility evaluation of photocatalytic graphene oxide/TiO<sub>2</sub>-based nanoparticles co-doped with iron and nitrogen designed for self-cleaning purposes”. Abstract Book of the 8th European Conference on Nanotechnology (EuroNanoForum 2017), June 21-23, 2017, Valletta, Malta. (POSTER)
- 34) Voicu SN, **Stan MS**, Hermenean A, Dinischiotu A. “Evaluation of antioxidant and cytoprotective activities exerted by mother tinctures of various medicinal plants against inflammatory bowel disease”. Abstract Book of the 11th World Congress on Polyphenols Applications, June 20-21, 2017, Vienna, Austria, p. 169. (POSTER)
- 35) **Stan MS**, Badea S, Sima C, Hermenean A, Dinischiotu A. “Evaluating the cellular senescence triggered by long-term exposure to silicon-based quantum dots in a lung fibroblast cell culture system”. Abstract Book of The European Society of Toxicology in Vitro 2016 International Conference (ESTIV2016), October 17-20, 2016, Juan-les-Pins, France, p. 151. (POSTER)
- 36) **Stan M**, Mernea M, Mihailescu D, Dinischiotu A. “Time evolution of the silicon-based quantum dots nano-bio interactions is critical for the effect on model biological membranes”. Toxicology Letters 258:S266 (Abstracts of the 52nd Congress of the European Societies of Toxicology – EUROTOX2016). (POSTER)
- 37) Dinischiotu A., Nica C.I., **Stan M.S.**, Dumitrescu I., Diamandescu L. “New-developed TiO<sub>2</sub>-based photocatalytic nanoparticles exhibit biocompatibility on MRC-5 lung fibroblasts after short-term exposure”. Journal of Biotechnology 231 (2016), p. S66-S67 (European Biotechnology Congress 2016). (POSTER)
- 38) **Stan M.S.**, Nica C.I., Dumitrescu I., Diamandescu L., Dinischiotu A. “Cytotoxicity assessment on cotton fabrics coated with photocatalytic titanium dioxide nanoparticles”. Abstract Book of ICOETOX – IBAMTOX 2016, June 21-23, 2016, Porto, Portugal, p. 52. (PREZENTARE ORALĂ)

- 39) Nica C.I., **Stan M.S.**, Dumitrescu I., Diamandescu L., Dinischiotu A. “*In vitro biocompatibility studies of polyester fabrics coated with photocatalytic titanium dioxide nanoparticles*”. Abstract Book of ICOETOX – IBAMTOX 2016, June 21-23, 2016, Porto, Portugal, p. 122. (POSTER)
- 40) **Stan M.S.**, Gheran C.V., Petrache Voicu S.N., Callewaert M., Andry M.C., Belabassi Y., Chuburu F., Dinischiotu A. “*In vitro biocompatibility evaluation of Gadolinium-based nanohydrogels*”. Toxicology Letters 238 (2) Supplement (2015), p. S216 (EUROTOX 2015). (POSTER)
- 41) **Stan M.S.**, Badea S., Sima C., Dinischiotu A. “*New insights into the cell death signaling pathways triggered by long-term exposure to silicon-based quantum dots in lung fibroblasts*”. Abstract Book of the 23th IUBMB International Congress and 44th SBBq, 24-28 August, 2015, Foz do Iguacu, Brazil, p. 335. (POSTER)
- 42) **Stan M.S.**, Bucur I.R., Lemnaru M., Marin M.M., Marin S., Tiplea R.E., Vlasceanu G.M., Andronescu E., Voicu G., Holban A.M., Dinischiotu A., Grumezescu AM. *3D scaffolds based on collagen, albumin, PVA and silver nanostructures for tissue engineering applications*. Abstract Book of The 8th International Conference on Advanced Materials (ROCAM 2015), 7-10 July 2015, Bucharest, Romania, Editura Granada, p. 91. (POSTER)
- 43) **Stan M.S.**, Apostol A., Carja A., Cabuzu D., Catrina E., Puiu R., Andronescu E., Oprea A.E., Dinischiotu A., Voicu G., Holban A.M., Grumezescu A.M. *Composite nanostructured biomaterials for improved wound healing*. Abstract Book of The 8th International Conference on Advanced Materials (ROCAM 2015), 7-10 July 2015, Bucharest, Romania, Editura Granada, p. 92. (POSTER)
- 44) **Stan M.S.**, Badea S., Sima C., Cinteza O., Dinischiotu A. “*Analysis of the molecular mechanisms involved in the control of lung fibroblasts growth during exposure to silicon-based quantum dots*”. FEBS Journal 282 (Suppl. 1) (2015), p. 225 (FEBS 2015). (POSTER)
- 45) Popescu R.C., Savu D., Vasile O.R., Andronescu E., Mogoanta L., Mogosanu G.D., Buteica A.S., Mindrila I., Grumezescu A.M., Constanda S., **Stan M.S.**, Dinischiotu A. “*Improved anti-tumor activity of cytostatic drugs functionalized magnetite nanoparticles without application of high amplitude alternative magnetic fields*”. FEBS Journal (Suppl. 1) (2015), p. 252 (FEBS 2015). (POSTER)
- 46) Oprea A.E., Grumezescu V., Holban A.M., Vasile O., Mogoanta L., Mogosanu G.D., Grumezescu A.M., Socol G., Chifiriuc C.M., Trusca R., **Stan M.S.**, Constanda S., Dinischiotu A. „*Thin films based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE for inhibition of the Sallmonela enterica biofilm development*”. Conferința EMRS (organizată de Societatea Europeană de Cercetare a Materialelor), 11-15 Mai 2015, Lille, Franța, p. CC-9. (POSTER)
- 47) Radulescu D., Grumezescu V., Holban A.M., Grumezescu A.M., Socol G., Oprea A.E., Chifiriuc C.M., Trusca R., **Stan M.S.**, Constanda S., Dinischiotu A., Radulescu R. „*MAPLE fabricated hydroxyapatite-poly(lactic-co-glycolic acid)-cephalosporins coatings for stimulation of fixation at the bone-implant interface*”. Conferința EMRS (organizată de Societatea Europeană de Cercetare a Materialelor), 11-15 Mai 2015, Lille, Franța, p. CC-9. (POSTER)
- 48) Dinischiotu A., Radu M., Voicu S.N., **Stan M.**, Stanica L., Dumitru B., Ghimia M., Badea T., Gheorghiu M. “*Impact of controlled illumination on stable cell lines containing light activated channels (Chanel Rhodopsin)*”. Abstract Book of the 15th IUBMB Conference and 24th FAOBMB-TSBMB, 21-26 October, 2014, Taipei, Taiwan, p. 176. (POSTER)
- 49) **Stan M.S.**, Badea S., Sima C., Cinteza O., Dinischiotu A., “*Characterization of silicon-based quantum dots behaviour in various biological media*”, Toxicology Letters 229 Suppl. (2014), p. S198 (EUROTOX 2014). (POSTER)
- 50) **Stan M.S.**, Memet I., Badea S., Sima C., Cinteza O., Dinischiotu A., “*Silicon-based quantum dots induce inflammation in human lung cells and disrupt extracellular matrix homeostasis*”, FEBS Journal 281 (Suppl. 1) (2014), p. 168 (FEBS-EMBO 2014). (POSTER)

- 51) **Stan M.S.**, Memet I., Badea S., Sima C., Cinteza O., Dinischiotu A., “*Silicon-based quantum dots induce inflammation in human lung cells and disrupt extracellular matrix homeostasis*”, Book of Abstracts of the 14th FEBS Young Scientists Forum (YSF), 27-30 August 2014, Paris, France, p. 58. (POSTER)
- 52) **Stan M.S.**, Memet I., Sima C., Popescu T., Teodorescu V., Dinischiotu A., “*Toxicity evaluation of Si/SiO<sub>2</sub> quantum dots in human lung fibroblasts*”, Book of Abstracts of NANOTOX2014, The 7th International Nanotoxicology Congress, April 23-26, Antalya, Turkey, p. 115. (POSTER)
- 53) **Stan M.S.**, Memet I., Grigoriu C., Dinischiotu A., “*Si/SiO<sub>2</sub> quantum dots cause cytotoxicity in lung cells through redox homeostasis imbalance*”, Bulletin of Romanian Society for Cell Biology, No. 41-June 2013, “Vasile Goldiș” University Press (Arad), The 5th International Congress of the Romanian Society for Cell Biology, 5-9 June 2013, Timisoara (Romania), p. 176 (ISSN: 1584-5532). (POSTER)
- 54) Memet I., **Stan M.S.**, Sima C., Dinischiotu A., “*Effects of silicon-based quantum dots on the inflammation process in MRC-5 lung cells*”, Bulletin of Romanian Society for Cell Biology, No. 41-June 2013, “Vasile Goldiș” University Press (Arad), The 5th International Congress of the Romanian Society for Cell Biology, 5-9 June 2013, Timisoara (Romania), p. 147 (ISSN: 1584-5532). (POSTER)
- 55) **Stan M.S.**, Fratila C., Roman I., Dinischiotu A., “*Effects of titanium-based nanotube films on osteoblast behaviour in vitro*”, Book of Abstracts of ESTIV2012, 16-19 October 2012, Lisbon, Portugal, p. 157. (PREZENTARE ORALĂ)
- 56) Gheorghe Ș., **Stan M.**, Mitroi D., Stoica C., Stănescu E., Dinischiotu A., Lucaciu L., “*Effects of Cocamidopropil betaine on oxidative stress biomarkers of the Cyprinus carpio sp.*”, Ecotoxicology Revisited: Proceedings of the 3rd SETAC CEE Annual Meeting, 17-19 September 2012, Krakow, Poland, (ISBN 8393599008). (POSTER)
- 57) Lupu A.R., **Stan M.**, Hermenean A., Tudor M., Dinischiotu A., “*Hepatoprotective effect of free or beta cyclodextrin encapsulated alcoholic extracts of Matricaria chamomilla, Chelidonium majus and Berberis vulgaris on HepG2 cells after CCl<sub>4</sub>-induced toxicity*”, Rom J Biochem. (2012), 49(Suppl.):67-68, The Annual International Conference of the RSBMB, 13-14 September 2012, Bucharest, Romania (ISBN 1582-3318). (POSTER)
- 58) Herman H., Popescu C., Mihali C.V., **Stan M.**, Covaci A., Ardelean A., Pilat L., Costache M., Dinischiotu A., Hermenean A., “*Protective effect of flavonoid naringenin and its β-cyclodextrin formulation against CCl<sub>4</sub>-induced liver injury in mice*”, Bulletin of Romanian Society for Cell Biology, No. 40 - June 2012, “Vasile Goldiș” University Press (Arad), The 4th International Congress of Romanian Society for Cell Biology, 13-17 June 2012, Satu-Mare (Romania) and Debrecen (Hungary), p.61 (ISSN:1584-5532). (POSTER)
- 59) Hermenean A., Popescu C., Mihali C., **Stan M.**, Pilat L., Popa C., Dinischiotu A., Costache M., “*Hepatoprotective activity of nanoencapsulated Berberis vulgaris compounds on carbon tetrachloride – induced acute liver injury in mice*”, Balkan Journal of Clinical Laboratory, vol. XIX (2011), no. 1, p.133, The 19th Meeting of Balkan Clinical Laboratory Federation, September 21-23, 2011, Bucharest, Romania, “Vasile Goldiș” University Press (ISSN 1310-4543). (POSTER)
- 60) Apafaian D., Capanu I., Raicu A., Pasaila H., **Stan M.**, Dinischiotu A., “*Oxidative stress induced by real conditions of high altitude hypoxia on military aviation flight personnel*”, The Book of Abstracts of the 59th International Congress of Aviation and Space Medicine, September 11-15, 2011, Bucharest, Romania. (POSTER)
- 61) Radu M., Petrache S.N., Stanca L., **Stan M.S.**, Costache M., Dinischiotu A., “*Oxidative modification of proteins in different tissues of Carassius auratus gibelio exposed to silicone quantum dots*”, Toxicology Letters, vol. 205S, 28 August 2011, p. S224-225. (POSTER)

- 62) **Stan M.S.**, Buda C., Petrescu M., Nica I.C., Stoian G., “*Mechanism of wound-healing activity of sorghum root extract in experimental burns*”, Book of Abstract of the 5th international conference on oxidative stress in skin medicine and biology, 1 – 4 September 2011, Andros, Greece, p.77. (PREZENTARE ORALĂ)
- 63) **Stan M.S.**, Dinischiotu A., “*Antioxidant efficiency of n-acetyl cysteine, curcumin, trolox and ginger root extract in reducing methotrexate toxicity in human embrionic kidney cells*”, Bulletin of Romanian Society for Cell Biology, No. 39-June 2011, “Vasile Goldiș” University Press (Arad), The 3rd International Congress of and 29th Annual Scientific Session of Romanian Society for Cell Biology, 8-12 June 2011, Arad (Romania), Szeged (Hungary), p.114 (ISSN: 1584-5532). (POSTER)
- 64) **Stan M.S.**, Sturzoiu C., Anton M., Petrescu M., Stoian G., “*Inhibitory effect of sorghum bicolor root extract on cell proliferation of human osteosarcoma cells*”, Book of Abstracts of Biologically active substances: Fundamental and Applied Problems Conference, Novy Svet, AR Crimea, Ukraine, May 23–28, 2011, p.641 (ISBN 978-966-96879-6-8). (POSTER)

### **VIII. Lucrări publicate sub formă de rezumat la conferințe și manifestări științifice naționale**

- 1) **Stan M.S.**, Nica I.C., Moreau J., Callewaert M., Chuburu F., Dinischiotu A., Voicu S.N., “*Investigating the FRET effect exerted by fluorescent chitosan nanogels*”, Volumul de rezumate al celui de-al XIV-lea Congres Național de Citometrie, 24-26 November 2021, Online, p. 20. (PREZENTARE ORALĂ)
- 2) **Stan M.S.**, Nica I.C., Raduly M., Mernea M., “*Evaluation of some curcumin derivates effect on human blood cells*”, Volumul de rezumate al celui de-al XIV-lea Congres Național de Citometrie, 4-6 November 2021, 24-26 November 2021, Online, p. 19. (PREZENTARE ORALĂ)
- 3) **Stan M.S.**, Nica I.C., Nitu C.D., Raduly M., Dinischiotu A., Avram S., Mihailescu D., Mernea M., “*In vitro research on the anti-cancer potential of some curcumin derivates*”, Book of abstracts of the 42nd anniversary symposium of the Institute of Cellular Biology and Pathology “Nicolae Simionescu” and the 38th annual scientific session of the Romanian Society for Cell Biology, 4-6 November 2021, Online, p. 57. (PREZENTARE ORALĂ)
- 4) **Stan MS**, Cinteza O, Lambert C, Dinischiotu A. “*The influence of graphene quantum dots on phagocytic activity of granulocytes*”. Al XIII-lea Congres National de Citometrie, 16-18 Decembrie, 2020, Online. (PREZENTARE ORALĂ)
- 5) **Stan M.S.**, Nica I.C., Miu B., Dinischiotu A. “*Are TiO2 nanoparticles genotoxic? Their influence on the cell cycle of human pulmonary fibroblasts*”, Al XII-lea Congres National de Citometrie, 30-31 Mai, 2019, Bucuresti, Romania. (POSTER)
- 6) **Stan M.S.**, Mernea M., Cristian R.E., Mohammad I.J., Lambert C., Dinischiotu A. “*Evaluation of titanium dioxide nanoparticles effect on phagocytic activity of granulocytes*”, Al XII-lea Congres National de Citometrie, 30-31 Mai, 2019, Bucuresti, Romania. (PREZENTARE ORALĂ)
- 7) Caruntu S., Balta C., Herman H., Rosu M., **Stan M.**, Petrache Voicu S.N., Olah N.K., Ardelean A., Dinischiotu A., Hermenean A. “*Anti-inflammatory effect of Thuja occidentalis extract on TNBS-induced ulcerative colitis in mice*”. The 28th Edition of Arad Academic days, May 23 - 25, 2018, Arad, Romania. (POSTER)
- 8) Caruntu S., Balta C., Herman H., Rosu M., **Stan M.**, Petrache Voicu S.N., Olah N.K., Ardelean A., Dinischiotu A., Hermenean A. “*Anti-inflammatory effect of Thuja occidentalis extract on TNBS-induced ulcerative colitis in mice*”. The 10th National Congress with International Participation and 36th Annual Scientific Session of the Romanian Society for Cell Biology, June 6-9 2018, Craiova, Romania, Bulletin of Romanian Society for Cell Biology, no. 29, p. 26-27, 2018, Vasile Goldis University Press, ISSN:1584-5532. (POSTER)

- 9) Badea S.R., **Stan M.S.**, Sima C., Cinteza O., Dinischiotu A., “*Silicon-based quantum dots behaviour and physico-chemical characterisation in physiological fluids*”, Bulletin of Romanian Society for Cell Biology, No. 42-June 2013, “Vasile Goldiș” University Press (Arad), The 6th National Congress with international participation and the 32nd Annual Scientific Session of the Romanian Society for Cell Biology, 4-7 June 2014, Târgu-Mureș (Romania), p. 78 (ISSN: 1584-5532). (POSTER)
- 10) **Stan M.S.**, Pilat L., Ardelean A., Costache M., Hermenean A., Dinischiotu A., “*Antioxidant activity evaluation of native Silybum marianum seed oil against CCl4-induced toxicity in mice*”, Book of Abstracts of Workshop “New research approaches to enhance the bioavailability of *Silybum marianum* nutraceuticals in hepatoprotection”, October 21-22, 2011, Arad, Romania. (PREZENTARE ORALĂ)
- 11) **Stan M.S.**, Pilat L., Popescu C., Costache M., Hermenean A., Dinischiotu A., “*Effect of Silybum marianum seeds oil on lipid peroxidation and liver antioxidant systems in mice treated with epirubicin*”, Book of Abstracts of Workshop “New research approaches to enhance the bioavailability of *Silybum marianum* nutraceuticals in hepatoprotection”, October 21-22, 2011, Arad, Romania. (PREZENTARE ORALĂ)
- 12) Lupu A.R., **Stan M.S.**, Costache M., Hermenean A., Turcuș V., Dinischiotu A., “*Inhibition of CCl4 induced apoptosis in HepG2 cells by Silybum marianum oil extract*”, Book of Abstracts of Workshop “New research approaches to enhance the bioavailability of *Silybum marianum* nutraceuticals in hepatoprotection”, October 21-22, 2011, Arad, Romania. (PREZENTARE ORALĂ)
- 13) Nica I.C., **Stan M.S.**, Stoian G., “*Potențialul extractului din rădăcină de sorg în vindecarea rănilor și arsurilor*”, Volumul rezumatelor Conferinței Naționale de Speleoterapie cu participare internațională, 6-8 Octombrie, 2011, Turda, România, editura Casa Cărții de Știință, Cluj-Napoca (2012), p. 61 (ISBN 978-606-17-0091-2). (POSTER)
- 14) **Stan M.S.**, Radu M., Petrache S.N., Munteanu C.M., Costache M., Dinischiotu A., “*Methotrexate causes oxidative stress in human embryonic kidney cells*”, Broșura Simpozionului dedicat Anului Internațional al Biodiversității, 15-16 octombrie 2010, Iași, România, p. 38, (ISSN: 1582-3571). (POSTER)

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