

- **Articole stiintifice 2021**

- *Ageing studies of Multi-Strip Multi-Gap Resistive Plate Counters based on low resistivity glass electrodes in high irradiation dose*

D. Bartos, C. Burducea, I. Burducea, G. Carageorgheopol, F. Constantin, **L. Craciun**, D. Dorobantu, M. Ghena, D. Iancu, A. Marcu, G. Mateescu, P. Mereuta, V. Moise, C. Negrila, D. Negut, M. Petris, M. Petrovici, L. Radulescu, V. Aprodu, L. Prodan, A. Radu, G. Stoian
Nuclear Inst. and Methods in Physics Research, A, 2021

- *Process validation for production of copper radioisotopes in a TR-19 variable energy cyclotron*

R. A. Leonte, D. Cocioaba, L. E. Chilug, S. I. Baruta (Ilie), T. R. Esanu, B. Burghelea, A. Chiriacescu, **L. S. Craciun**, and D. Niculae
AIP Conference Proceedings 2295, 020022 (2020)

- **Conferinte 2021**

NINTH INTERNATIONAL CONFERENCE ON RADIATION IN VARIOUS FIELDS OF RESEARCH (RAD 2021)

14–18.06.2021 | HUNGUEST HOTEL SUN RESORT | HERCEG NOVI | MONTENEGRO

- *3D tumour spheroids for the prediction of the effects of radiation and treatment with antimicrobial peptides*

Mina Raileanu, Mihaela Bacalum, **Liviu Craciun**, Tiberiu Esanu, Ioana Porosnicu

- *Investigating proton irradiation effects on glioblastoma cell lines*

Simona-Cristina Anghelina, Mihaela Temelie, **Liviu Crăciun**, Diana Savu

- *Preparation and characterization of molybdenum solid targets for high current cyclotron production of medical ^{99m}Tc radionuclides*

Nicoleta Florea, Mihai Badea, Cristina Burducea, **Liviu-Stefan Craciun**, Tiberiu-Relu Esanu, Raluca-Maria Marginean, Paul Mereuta, Constantin Mihai, Calin Mircea Rusu, Andreea-Elena Serban

- *Analysis of DNA damage response following proton radiation exposure in an in vitro neuronal model*

Mihaela Temelie, Tiberiu Esanu, **Liviu Craciun**, Nicoleta Moisoi, Diana Savu

- *Production of Cu-64 on an automated irradiation and processing system – Process validation*

Radu A. Leonte, Diana S. Cocioaba, Ramona D. Dusman, Bogdan G. Burghelea, Simona I. Baruta, Roxana M. Cornoiu, **Liviu S. Craciun**, Dana Niculae

- *Production of Zr-89 radioisotope using a variable energy cyclotron (TR-19)*

Ramona-Daniela Dusman, Diana Cocioaba, Alina Raicu, Mirela Mihon, Livia Chilug, Radu Leonte, **Liviu Craciun**, Dana Niculae

- **Articole stiintifice 2022**

- ***Electrochemical evaluation of proton beam radiation effect on the B16 cell culture***

Melania Onea, Mihaela Bacalum, Andreea Luminita Radulescu, Mina Raileanu, Liviu Craciun, Tiberiu Relu Esanu & Teodor Adrian Enache

Scientific Reports volume 12, Article number: 2261 (2022)

<https://www.nature.com/articles/s41598-022-06277-6>

- ***Trojan horse treatment based on PEG-coated extracellular vesicles to deliver doxorubicin to melanoma in vitro and in vivo***

Patras L, Ionescu AE, Munteanu C, Hajdu R, Kosa A, Porfire A, Licarete E, Rauca VF, Sesarman A, Luput L, Bulzu P, Chiroi P, Tranca RA, Meszaros MS, Negrea G, Barbu-Tudoran L, Potara M, Szedlacsek S, Banciu M.

Cancer Biol Ther. 2022 Dec 31;23(1):1-16. doi: 10.1080/15384047.2021.2003656. Epub 2021 Dec 29. PMID: 34964693; PMCID: PMC8812761.

<https://pubmed.ncbi.nlm.nih.gov/34964693/>

- ***Designed Peptide Inhibitors of STEP Phosphatase-GluA2 AMPA Receptor Interaction Enhance the Cognitive Performance in Rats,***

Szedlacsek HS, Bajusz D, Badea RA, Pop A, Bică CC, Ravasz L, Mittli D, Mátyás D, Necula-Petrăreanu G, Munteanu CVA, Papp I, Juhász G, Hritcu L, Keserű GM, Szedlacsek SE.

J Med Chem. 2022 Jan 13;65(1):217-233. doi: 10.1021/acs.jmedchem.1c01303. Epub 2021 Dec 28. PMID: 34962802.

<https://pubmed.ncbi.nlm.nih.gov/34962802/>

- **Conferinte 2022**

- ***Neutron activator driven by a compact cyclotron for medical radioisotope production***

Liviu Stefan CRACIUN, Tiberiu Relu ESANU, Laurentiu TEODORESCU, Dana NICULAE, Ofelia Petronela MURESAN, Cristina BURDUCEA

20th International Balkan Workshop on Applied Physics and Materials Science, Ovidius University, Constanta, Romania, 12-15 July, 2022