

PERSONAL INFORMATION Andra-Sorina Tatar

📍 Cluj-Napoca (Romania)

☎ +40740473888

✉ tatar.andra@yahoo.com

Publications

- **Tatar AS**, Farcau C, Vulpoi A, Boca S, Astilean S, Development and evaluation of a gold nanourchin (GNU)-based sandwich architecture for SERS immunosensing in liquid, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 273 (2022) 121069
- Safar W, **Tatar AS**, Leray A, Potara M, Liu Q, Edely M, Djaker N, Spadavecchia J, Fu W, Gam-Derouich S, Felidj N, Astilean S, Finot E, Lamy de la Chapelle M, New Insight on the Aptamer Conformation and Aptamer/protein Interaction by Surface Enhanced Raman Scattering and Multivariate Statistical Analysis, *Nanoscale*, 29 (2021) 12443-12453
- Borlan R*, **Tatar AS***, Soritau O, Maniu D, Marc G, Florea A, Focsan M, Astilean S, Design of Fluorophore Loaded Human Serum Albumin Nanoparticles for Specific Targeting of NIH:OVCAR3 Ovarian Cancer Cells, *Nanotechnology*, 31 (2020) 315102 [*equal contributions]
- **Tatar AS**, Jurj A, Tomuleasa C, Florea A, Berindan-Neagoe I, Cialla-May D, Popp J, Astilean S, Boca S, CD19-targeted, Raman tagged gold nanourchins as theranostic agents against acute lymphoblastic leukemia, *Colloid Surface B*, 184 (2019) 110478
- Nagy-Simon T, **Tatar AS**, Craciun AM, Vulpoi A, Jurj MA, Florea A, Tomuleasa C, Berindan-Neagoe I, Astilean S, Boca S, Antibody Conjugated, Raman Tagged Hollow Gold-Silver Nanospheres for Specific Targeting and Multimodal Dark-Field/SERS/Two Photon-FLIM Imaging of CD19(+) B Lymphoblasts, *ACS Appl. Mater. Interfaces* 9, 25 (2017) 21155-21168
- **Tatar AS**, Nagy-Simon T, Tomuleasa C, Boca S, Astilean S, Nanomedicine approaches in acute lymphoblastic leukemia, *J. Controlled Release* 238 (2016) 123-138
- Ciceo Lucacel R, Radu T, **Tatar AS**, Lupan I, Ponta O, Simon V. 2014. The influence of local structure and surface morphology on the antibacterial activity of silver-containing calcium borosilicate glasses. *J Non-Cryst Solids* 404:98-103
- Chiriac C, **Tatar AS**, Radu C, Lupan I, Kelemen B. 2014. Techniques Used for the Diagnostic of Ancient Tuberculosis in Human Remains. *Studia UBB Biologia LIV* 1:114-126
- **Tatar AS**, Ponta A, Kelemen B. 2014. Bone Diagenesis and FTIR Indices: a Correlation. *Studia UBB Biologia LIV* 1:101-113
- **Tatar AS**. 2013. Early communication between plants and their symbiont nitrogen fixing bacteria a minireview. *ELBA Bioflux* 5:117-121
- **Tatar AS**, Chiriac C. 2013. An overview of the molecular communication between nitrogen fixing bacteria and Fabaceae in establishing the symbiosis. *Studii si cercetari, Biology* 18:81-90

Conference participation – oral presentations

International conferences:

- Yasukuni R, Gillibert R, Triba MN, Safar W, Liu Q, Potara M, **Tatar AS**, Edely M, Leray A, Gucciardi P, Finot E, Astilean S, Lamy de la Chapelle M, Detection, identification and structural study of biomolecules by quantitative analysis of SERS spectra, *SFNano C'Nano*, December 2019, Dijon, France
- Yasukuni R, Gillibert R, Triba MN, Safar W, **Tatar AS**, Edely M, Leray A, Finot E, Astilean S, Lamy de la Chapelle M, Detection and identification of biomolecules by quantitative analysis of SERS spectra, *Sixth International Workshop on Advanced, Nano- and Biomaterials and Their Applications (6th NABM)*, May 2019, Cluj-Napoca, Romania
- **Tatar AS**, Jurj MA, Nagy-Simon T, Craciun AM, Berindan-Neagoe I, Florea A, Cialla-May D, Astilean S, Boca S, Novel theranostic agent against Acute Lymphoblastic Leukemia: CD19- targeting Gold Nanourchins, *2nd International Conference and Exhibition on Nanomedicine and Drug Delivery*, May 2018, Tokyo, Japan
- Nagy-Simon T, **Tatar AS**, Craciun AM, Vulpoi A, Jurj MA, Florea A, Tomuleasa C, Berindan-Neagoe I, Astilean S, Boca S, Hollow Gold-Silver Nanospheres for Specific Targeting and Multimodal Imaging of CD19(+) B Lymphoblasts, *European Conference on the Spectroscopy of Biological Molecules (ECSBM)*, September 2017, Amsterdam, Netherlands.

National conferences:

- **Tatar AS**, Ponta O, Kelemen B. Identificarea prin spectroscopie FT-IR a inhibitorilor PCR coextrasi din probe arheologice umane, Sesiunea Anuală de Comunicări Științifice, noiembrie 2014, Bistrița, România;
- **Tatar AS**, Kelemen B. Aplicatii ale tehnicii FT-IR in bioarheologie, Sesiunea Anuală de Comunicări Științifice, noiembrie 2013, Bistrița, România;

Conference participation - posters

- **Tatar AS**, Baia M, Astilean S, Boca S, Stimuli-Responsive Polymer-Coated Gold Nanourchins for Controlled Delivery of Dasatinib Hydrophobic Tyrosine Kinase Inhibitor, *NanoMed International Conference 2021*, October 2021, online
- **Tatar AS**, Farcau C, Astilean S, Boca S, GNP-based sandwich immunosensor for SERS biomarker detection in liquid, Processes in Isotopes and Molecules (PIM21), September 2021, online

- **Tatar AS**, Boca S, Farcau C, Astilean S, Morphologically heterogeneous gold nanoparticle-based sandwich assay for SERS immuno-detection in liquid, Elsevier Biosensors, July 2021, online
- **Tatar AS**, Tigu AB, Jurj AM, Florea A, Nagy-Simon T, Neagoe-Berindan I, Astilean S, Tomuleasa C, Boca S, Nanoparticulate Systems for Delivery of Tumor Inhibitors: New Strategies for Individualized Treatment of Leukemias, *Nanotextology*, July 2021, Thessaloniki, Greece
- **Tatar AS**, Tigu AB, Jurj A, Florea A, Nagy-Simon T, Berindan-Neagoe I, Astilean S, Boca S, Tyrosine Kinase Inhibitor (TKI)-nanocarriers for precision medicine treatment of acute leukemias, *COST ACTION CA17140 Nano2Clinic*, June 2021, online
- **Tatar AS**, Astilean S, Boca S, pH-Sensitive hybrid nanoparticles for the controlled release of Tyrosine Kinase Inhibitors, *NDDTE'21*, June 2021, online
- **Tatar AS**, Florea A, Nagy-Simon T, Tomuleasa C, Astilean S, Boca S, Hybrid Nanoparticles for stimuli-triggered release of Tyrosine Kinase Inhibitors, *Nanotextology*, July 2020, Thessaloniki, Greece
- **Tatar AS**, Nagy-Simon T, Florea A, Vulpoi A, Jurj A, Tomuleasa C, Berindan-Neagoe I, Astilean S, Boca S, Engineering gold nanoparticle morphology for optimised microspectroscopic imaging of blood cancer cells, *Nanotextology*, July 2020, Thessaloniki, Greece
- **Tatar AS**, Potara M, Suarasan S, Ghiman R, Soritau O, Fischer-Fodor E, Focsan M, Astilean S, Near-Infrared Fluorophores-loaded Nanoparticles: encapsulation, stabilisation and targeting for Ovarian Cancer Cells, *ECSBM 18*, August 2019, Dublin, Ireland
- Borlan RA, **Tatar AS**, Maniu D, Soritau O, Fischer-Fodor E, Achimas-Cadariu P, Focsan M, Astilean S, Indocyanine green-loaded protein nanoparticles for near infrared imaging and targeting of ovarian cancer cells, *ECSBM 18*, August 2019, Dublin, Ireland
- **Tatar AS**, Nagy-Simon T, Craciun AM, Jurj MA, Berindan-Neagoe I, Astilean S, Boca S, Specific detection and imaging of Acute Lymphoblastic Leukemia cells using multimodal Gold Nanourchins, *FIRST COST ACTION CA17140 Training School, University of Trieste*, April 2019, Trieste, Italy
- **Tatar AS**, Nagy-Simon T, Craciun AM, Vulpoi A, Jurj MA, Florea A, Tomuleasa C, Berindan-Neagoe I, Astilean S, Boca S, Immunotargeted, NIR-responsive gold nanoparticles as integrated diagnostic and therapeutic agents against acute lymphoblastic leukemia, *7th International Colloids Conference*, June 2017, Sitges, Spain,
- **Tatar AS**, Nagy-Simon T, Jurj MA, Berindan-Neagoe I, Tomuleasa C, Cialla-May D, Astilean S, Boca S, Anti-CD19 Gold Nanostars as New Therapeutic Vectors for the Treatment of Acute Lymphoblastic Leukemia, *2nd World Congress on Recent Advances in Nanotechnology (RAN'17), 2nd International Conference on Nanomedicine, Drug Delivery, and Tissue Engineering (NDDTE'17)*, April 2017, Barcelona, Spain
- Boca S, **Tatar AS**, Nagy-Simon T, Tomuleasa C, Astilean S, Spectroscopic active, antibody- conjugated gold nanoparticles for acute lymphoblastic leukemia detection and treatment, *SPIE Optics + Photonics*, August 2016, San Diego, California, SUA
- **Tatar AS**, Nagy-Simon T, Boca S, Astilean S, Fabrication and conjugation of Au nanostars with Raman reporters for application in imaging and detection by SERS, *Raman4Clinics Summer School*, May 2016, Jena, Germany
- **Tatar AS**, Ponta O, Kelemen B. A correlation between physical analytical methods and the rate of DNA extraction from ancient human remains, *Winter Biology Students in Europe Conference*, February 2014, Serbia