

# **Grupul de cercetare Biochimie și Toxicologie**

## **Publicații selectate**

### **2016**

**Drochioiu, G., Ciobanu, C.I., Băncilă, S., Ion, L., Petre A.B., Andriesc, C., Grădinaru, R.V.** and Murariu, M., Ultrasound-based protein determination in maize seeds, *Ultrasonics Sonochemistry*, 29, 93-103.

**Ion, L., Ciobanu, C.I., Murariu, M., Grădinaru, V.R. and Drochioiu, G.**, SDS-induced Peptide Conformational Changes: From Triglycyl-glycine to Amyloid- $\beta$  Oligomers Associated with Alzheimer's Disease. *International Journal of Peptide Research and Therapeutics*, 22(1), pp.45-55.

**Ciobanu, C.I., Stefanescu, R., Niculaea, M., Teslaru, T., Grădinaru, R. and Drochioiu, G.**, Letter: Mass spectrometric evidence for iron binding to the neuroprotective peptide NAP and its Cys 5 mutant. *European Journal of Mass Spectrometry*, 22(2), pp.97-104.

**Ciobanu, C. I., Drochioiu, G.**, Carlescu, I., Lisa, G., Antoci, V., Vasilache, V. and Scutaru, D., Thermal Behavior of Some Bent-Core Resorcinol Derivatives with Azo-Type Spacers and Variable Flexible Chain. *Lett. Org. Chem.*, 13(2), 156-161.

### **2015**

**Grădinaru, R.V.**, Apell, H. J. Probing the Extracellular Access Channel of the Na,K-ATPase. *Biochemistry*, 54, 2508-2519.

**Andries, C., Manea, M., Drochioiu, G., Grădinaru, V.R.** New insights into coenzyme A interaction with mercury ions provided by mass spectrometric and circular dichroism spectroscopic approaches. *Eur. J. Mass Spectrom.*, 21, 97–102.

**Drochioiu, G., Tudorachi, L.** Murariu, M. NOSH aspirin may have a protective role in Alzheimer's disease. *Med. Hypotheses*, 84, 2015, 262–267.

### **2014**

Schreier V. N., Pethő L., Orbán E., Marquardt A., **Petre B.A.**, Mező G. and Manea M. Protein expression profile of HT-29 human colon cancer cells after treatment with a cytotoxic daunorubicin-GnRH-III derivative bioconjugate, *PLoS ONE*, 9(4):e94041.

**Petre, B.A.**, Affinity – mass spectrometry approaches for elucidating structures and interactions of protein – ligand complexes in Advances in experimental medicine and biology – Springer, 806:129-151. DOI: 10.1007/978-3-319-06068-2\_7.

### **2013**

Surleva, A., **Drochioiu, G.** A modified ninhydrin micro-assay for the determination of total cyanogens in plants. *Food Chem.*, 141(3), 2788–2794,

Surleva, A. R., **Drochioiu, G.** Visualizing smoking hazard: a simple spectrophotometric determination of hydrogen cyanide in cigarette smoke and filters. *J. Chem. Educ.*, 90(12), 1654–1657, DOI: 10.1021/ed400280s;

**Drochioiu, G., Ion, L., Ciobanu, C., Habasescu, L.,** Mangalagiu, I. Letter: Mass spectrometric approach of high pH- and copper-induced glutathione oxidation. *Eur. J. Mass Spectrom.*, **19**(1), 71–75, doi: 10.1255/ejms.1210;

**2012**

**Petre, B.A.,** Ulrich, M., Stumbaum, M., Bernevic, B., Moise, A., Doering, G., Przybylski, M. When is mass spectrometry combined with affinity approaches essential? A case study of tyrosine nitration in proteins. *J. Am. Soc. Mass Spectrom.*, **23**, 1831-1840.

**2011**

**Gradinaru, R.,** Ionas, A., Pui, A., Zbancioc, G., **Drochioiu, G.** Interaction of inorganic mercury with CoA-SH and acyl-CoAs. *Biometals*, **24**, 1115-1121.

**2010**

Murariu, M., Dragan, E. S., **Drochioiu, G.** Model peptide-based system used for the investigation of metal ions binding to histidine-containing polypeptides. *Biopolymers*, **93**, 497-508.