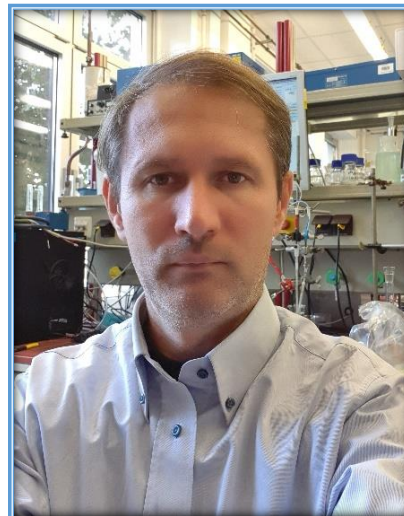


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### **Research interests**

Development of novel sensors and biosensors, characterization of sensors and biosensors, electrochemistry, electronic sensory systems: e-tongue, e-nose, e-eye; chemometry, food chemistry, food analysis, synthesis and characterization of organic compounds, UV-VIS, FTIR, HPLC, TLC, GC-MS, deposition of sensitive materials onto substrates using different methods: Langmuir-Blodgett, Layer-by-Layer, electrodeposition, high vacuum sublimation, spin-coating.

### **SELECTED PUBLICATIONS**

- Apetrei, C., Alessio, P., Constantino, C.J.L., de Saja, J.A., Rodriguez-Mendez, M.L., Pavinatto, F.J., Fernandes, E.G., Zucolotto, V., Oliveira, O.N. Biomimetic biosensor based on lipidic layers containing tyrosinase and lutetium bisphthalocyanine for the detection of antioxidants, *Biosensors and Bioelectronics* 26 (2011) 2513-2519, doi:10.1016/j.bios.2010.10.047
- Apetrei, C., Apetrei, I.M., De Saja, J.A., Rodriguez-Mendez M.L., 2011, Carbon paste electrodes made from different carbonaceous materials: application in the study of antioxidants, *Sensors*, 11, pp. 1328-1344, doi:10.3390/s110201328
- Apetrei C, Iticescu C, Georgescu LP., 2019, Multisensory System Used for the Analysis of the Water in the Lower Area of River Danube. *Nanomaterials*. 17; 9(6): 891. doi: 10.3390/nano9060891.
- Munteanu, I.G.; Apetrei, C. Assessment of the Antioxidant Activity of Catechin in Nutraceuticals: Comparison between a Newly Developed Electrochemical Method and Spectrophotometric Methods. *Int. J. Mol. Sci.* 2022, 23, 8110. <https://doi.org/10.3390/ijms23158110>
- Munteanu, I.G.; Apetrei, C. Classification and Antioxidant Activity Evaluation of Edible Oils by Using Nanomaterial-Based Electrochemical Sensors. *Int. J. Mol. Sci.* 2023, 24, 3010. <https://doi.org/10.3390/ijms24033010>
- Bounegru, A.V.; Apetrei, C. Tyrosinase Immobilization Strategies for the Development of Electrochemical Biosensors—A Review. *Nanomaterials* 2023, 13, 760. <https://doi.org/10.3390/nano13040760>.