

**Drd. Ing. Alexandru Adrian BRĂTEI**  
**Lista lucrări ce cuprind datele din teză**

## LISTA DE LUCRĂRI

### ARTICOLE PUBLICATE:

Total IF = 38.5

- I. Stefan-van Staden, R.-I.; **Bratei, A.A.** *et al.* Miniplatforms for Screening Biological Samples for KRAS and Four Mismatch Repair Proteins as New Tools for Fast Screening for Gastric and Colon Cancers. *J. Electrochem. Soc.* **2023**, 170, 057510. DOI: 10.1149/1945-7111/acd358. IF=3.9
- II. Stefan-van Staden, R.-I., **Bratei, A.A.** *et al.* New stochastic devices for simultaneous analysis of mismatch repair proteins and KRAS in biological samples. *Journal of Pharmaceutical and Biomedical Analysis* **2023**, 115630, ISSN 0731-7085. <https://doi.org/10.1016/j.jpba.2023.115630>. IF= 3.4
- III. Stefan-van Staden, R.-I., **Bratei, A.A.** *et al.* Bioanalysis of MMR and KRAS – a key factor in diagnosis of colorectal cancer *RSC Adv.* **2023**, 13, 24086. DOI: 10.1039/d3ra04260j. IF= 3.9
- IV. Stefan-van Staden, R.-I.; **Bratei, A.A.** *et al.* DNA Mismatch Repair Assessment in Gastric and Colon Cancers Using Stochastic Microdisks. *ChemElectroChem* **2023**, 10, e202300273. <https://doi.org/10.1002/celc.202300273>. IF=4
- V. **Bratei, A.A.**; Stefan-van Staden, R.-I. *et al.* Molecular Differentiation of Cathepsins B and D, and of p53 Protein, and their Quantitative Assay in Biological Samples. *J. Electrochem. Soc.* **2023**, 170, 097503. <https://doi.org/10.1149/1945-7111/acf622>. IF=3.9
- VI. **Bratei, A.A.**; Stefan-van Staden, R.-I.; Ilie-Mihai, R.-M.; Gheorghe, D.-C. Simultaneous Assay of CA 72-4, CA 19-9, CEA and CA 125 in Biological Samples Using Needle Three-Dimensional Stochastic Microsensors. *Sensors* **2023**, 23, 8046. <https://doi.org/10.3390/s23198046>. IF=3.9
- VII. **Bratei, A.A.**; Stefan-van Staden R.-I., Ilie-Mihai R.-M. Electroanalysis of maspin in whole blood. *U.P.B. Sci. Bull., Series B*, ISSN 1454-2331, **2024**. IF=0.5.
- VIII. **Bratei, A.A.**; Stefan-van Staden, R.-I. Correlation between Maspin Levels in Different Biological Samples and Pathologic Features in Colorectal Adenocarcinomas. *Life* **2023**, 13, 1060. <https://doi.org/10.3390/life13041060>. IF=3.2
- IX. **Bratei, A.A.**; Stefan-van Staden, R.-I. Minimally Invasive and Fast Diagnosis of Gastric Cancer Based on Maspin Levels in Different Biological Samples. *Diagnostics* **2023**, 13, 1857. <https://doi.org/10.3390/diagnostics13111857>. IF=3.6

- X. **Bratei, A.A.**; Stefan-van Staden, R.-I. Differentiation between Gastric and Colorectal Adenocarcinomas Based on Maspin, MLH1, PMS2 and K-Ras Concentrations Determined Using Stochastic Sensors. *Gastrointest. Disord.* **2023**, *5*, 487-499. **IF=0.7**
- XI. **Bratei, A.A.**; Stefan-van Staden, R.-I. Correlations between MSH2 and MSH6 Concentrations in Different Biological Fluids and Clinicopathological Features in Colorectal Adenocarcinoma Patients and Their Contribution to Fast and Early Diagnosis of Colorectal Adenocarcinoma. *Biomedicines* **2023**, *11*, 3213. <https://doi.org/10.3390/biomedicines11123213>. **IF=4.7**
- XII. **Bratei, A.A.**, & Stefan-van Staden, R.-I. (2023). The Importance of KRAS Quantification for a Clinicopathological Characterization in Colorectal Cancer Patients. *Medinformatics* **2024**, *1*, 20-26. <https://doi.org/10.47852/bonviewMEDIN32021546>
- XIII. **Bratei, A.A.**; Stefan-van Staden R.-I. Pathological features of colorectal adenocarcinoma patients related to MLH1. *Cellular and Molecular Bioengineering* **2024**. **IF=2.8**

## ARTICOLE TRIMISE SPRE PUBLICARE

- I. **Bratei, A.A.**; Stefan-van Staden, R.-I. Fast diagnosis and pathological features related to MLH1 and PMS2 in gastric cancer patients and to PMS2 in colorectal cancer patients.
- II. **Bratei, A.A.**; Stefan-van Staden, R.-I. Evaluation of clinicopathological features in colorectal adenocarcinoma patients based on the concentrations of MMR proteins and KRAS.

## PARTICIPĂRI LA MANIFESTĂRI ȘTIINȚIFICE

1. Ruxandra-Maria Ilie-Mihai, Raluca-Ioana Stefan-van Staden, Alexandru Adrian Bratei, Damaris-Cristina Gheorghe, Stochastic sensors as new tools for the assay of CA72-4, CA19-9, CA12-5 and CEA in biological samples, Transnational Multiplier event of REALME project - A Mixed Reality E-Learning Platform Dedicated for Medical Engineering, 18 – 19 OCTOBER 2023, National University of Science and Technology POLITEHNICA Bucharest. (POSTER)
2. Ruxandra-Maria Ilie-Mihai, Raluca-Ioana Stefan-van Staden, Alexandru Adrian Bratei, Damaris-Cristina Gheorghe, Bianca Maria Tuchiu, OP9-5-3. DNA Mismatch Repair Assessment in Gastric and Colon Cancers Using Stochastic Microdisks, Euroanalysis XXI, Geneva, Switzerland, 27-31 August, 2023. (ORAL PRESENTATION)

3. Ruxandra-Maria Ilie-Mihai, Raluca-Ioana Stefan-van Staden, Alexandru Adrian Bratei, Damaris-Cristina Gheorghe, PS2-22. Stochastic sensors as new tools for the assay of CA72-4, CA19-9, CA12-5 and CEA in biological samples, Euroanalysis XXI, p. 254, Geneva, Switzerland, 27-31 August, 2023. (POSTER)
  
4. Raluca-Ioana Stefan-van Staden, Damaris Cristina Gheorghe, Alexandru A A Bratei, Ruxandra Maria Mihai, (Invited) New Challenges in Early Diagnosis of Gastric Cancer, 241st ECS Meeting, May 29 – June 2, 2022, Vancouver, Canada (ORAL PRESENTATION)