

Half Day Short Course

A07. Trends in Bioanalysis

Content

- 1 Principles of molecular recognition in bioanalysis
- 2 Tools used in bioanalysis
- 3 Mechanism of molecular recognition of biomolecules
- 4 Reliable design of the tools used in bioanalysis
- 5 Validation of methods used for bioanalysis
- 6 Applications of bioanalysis in biomedical analysis, pharmaceutical analysis, environmental analysis and food analysis.

Details

Instructors	Prof. Raluca-loana van Staden
Date	27 August 2023
Time	13:30 h – 16:30 h
Duration	3 h
Location	CICG Geneva
Fees	130 CHF (delegate) 80 CHF (student)
Included	Coffee break If booking 2 courses: lunch

Instructor

Raluca-loana van Staden is a Full Professor at University Politehnica of Bucharest and the Head of the Laboratory of Electrochemistry and PATLAB Bucharest in the National Institute of Research of Electrochemistry and Condensed Matter. She received her B.Sc. degree (1992) and Ph.D. degree (1997) in chemistry from the University of Bucharest, Romania, and her habilitation in 2013.

She currently is the head of the Study group Bioanalytics, of DAC and has co-authored more than 370 journal articles, mainly in the fields of electrochemical sensors, bioanalysis (ion-selective membrane electrodes, enantioselective, potentiometric membrane electrodes, biosensors, immunosensors), process technology and flow systems (flow and sequential injection analysis), and has published three books.

She serves on the Editorial Boards of Analytical Letters, Sensors, Journal of Oncology and ECS Sensors Plus.

She has developed new types of sensors (potentiometric enantioselective membrane electrodes, biosensors and immunosensors) for the analysis of chiral drugs and she also did the modeling of interaction between enantiomer and chiral selector.



Prof. R. van Staden

She is also the initiator of simultaneous detection of enantiomers using (bio)sensors and sequential injection analysis systems.