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**EuroAnalytica-2024**

Final Program

# 5<sup>th</sup> Euro Analytical Chemistry Conference



**November 04-05, 2024 | Virtual**



**London, UK Time**



Join Zoom Live Stream  
<https://us06web.zoom.us/j/89785966662?pwd=HjBzVEU7M7ko54eWQVqIQ59MODvSTq.1>

Meeting ID: 897 8596 6662  
Passcode: 389061

## Keynote Talks

- 09:00-09:30 **Using advanced NMR spectroscopy to derive structural and analytical insights in pharmaceuticals, biomaterials and foods**  
**Yaroslav Khimyak, Ph.D.**, Professor, NMR Spectroscopy, School of Pharmacy, University of East Anglia, Norwich, UK
- 09:30-10:00 **Intelligent biosensors and digital life----fact or fiction**  
**Xueji Zhang, Ph.D., FRSC**, National Chair Professor, Vice President of Shenzhen University, China
- 10:00-10:15 **Break**

**Chair: Haolin Zhan, Ph.D.**, Associate Professor, Department of Biomedical Engineering, Hefei University of Technology, China

## Biomedical Analysis

- 10:15-10:35 **Fabrication of novel magnetic London plane leaves for rapid and highly efficient adsorption of heavy metal from water**  
**Precious N. Mahlambi, Ph.D.**, Associate Professor in Analytical Chemistry, School of Chemistry & Physics, University of KwaZulu-Natal, South Africa
- 10:35-10:55 **Dynamic analysis using online measurements: modeling of initial headspace concentration and estimation of henry coefficients in real liquid matrices**  
**Philippe M. Heynderickx, Ph.D.**, Director, CEER, Department of Molecular Biotechnology, Environmental Technology, and Food Technology, Ghent University Global Campus, South Korea

## Pharmaceutical Analysis & Chemometry

- 10:55-11:15 **Strategy and validation of a nonclinical generic plug-and-play antidrug antibody method for human monoclonal antibody biotherapeutics**  
**Rodd Polsky**, BS, Investigator, (GSK), Immunogenicity Group, Collegeville, PA
- 11:15-11:35 **Analysis of caffeine levels in ten tea brands obtained from Lagos Market, Nigeria**  
**Aderonke Adepoju-Bello, Ph.D.**, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Lagos, Nigeria

11:35-11:45 **Break**

## Environmental Analysis

- 11:45-12:05 **Deep learning enabling NMR spectroscopy**  
**Haolin Zhan, Ph.D.**, Associate Professor, Department of Biomedical Engineering, Hefei University of Technology, China
- 12:05-12:25 **Atmospheric effects of the Tonga volcanic sulfate aerosols**  
**Neil Raymond**, Postdoctoral Fellow, Science Operations Center of the Atmospheric Chemistry Experiment, University of Waterloo, Canada **(Poster)**

12:25-12:35 **Research on the use of raw materials of various origins for the synthesis of carbon dots for screening environmental analysis (Poster)**  
**Monika Kuligowska, Cpt. MSc.**, Assistant, Institute of Chemistry, Department of Radiometry and Contamination Monitoring, Wojskowa Akademia Techniczna, Poland

## Biosensors and Biomolecular Analysis

12:35-12:55 **Mitochondrial viscosity quantification and the mechanism monitor in ferroptosis enabled by vibration-based fluorescent probes**  
**Lifang Guo**, Frontiers Science Center for Materiobiology and Dynamic Chemistry, East China University of Science & Technology, China

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**Chair: Seema Garg Head, Ph.D.**, Professor, Dept. of Chemistry, Amity Institute of Applied Sciences, Amity University Noida, India

### Spectroscopy Techniques

- 09:00-09:20 **Alpibectir, first time in human metabolism by 19F-NMR, 1H-NMR and HRMS**  
**Steve Thomas, BSc.**, Associate Director, at GSK, UK
- 09:20-09:40 **Recent developments in concentration prediction for small molecules using high-resolution mass spectrometry**  
**Selina Tisler, Ph.D.**, Assistant Professor, Department of Plant and Environmental Sciences, University of Copenhagen, Denmark
- 09:40-10:00 **Analysis of isomeric mixtures by microwave spectroscopy**  
**Luca Evangelisti, Ph.D.**, Associate Professor, Department of Chemistry, University of Bologna, Italy
- 10:00-10:10 **Real-time measurement of metals in submicron aerosols with particle-into-liquid sampler combined with micro-discharge optical emission spectroscopy (Poster)**  
**Sudatta Das, M.Tech**, Research Assistant, Metrology Research Institute, Aalto University, Finland

### Applications of Analytical Chemistry

- 10:10-10:30 **Bismuth based photocatalyst for efficient photodegradation and CO2 reduction**  
**Seema Garg Head, Ph.D.**, Professor, Dept. of Chemistry, Amity Institute of Applied Sciences, Amity University Noida, India
- 10:30-10:40 **13C16-Palmitic Acid as tracer to evaluate fatty acid oxidation in primary human cells using UHPLC-MS/MS (Poster)**  
**Feng Qu**, Global Target Discovery/Novo Nordisk Research Centre, China

10:40-10:50 **Break**

### Chromatographic Methods

- 10:50-11:10 **3-Year monitoring of PFAS levels in Thessaloniki raw and drinking water using a solid phase extraction coupled with LC/MS-MS analytical method**  
**Nikoletta Xanthopoulou M.Sc., Ph.D.**, Sr. Analytical Chemist, Thessaloniki Water Supply & Sewerage Company (EYATH S.A.), Greece
- 11:10-11:30 **Incorporating ultrashort-chain compounds into the comprehensive analysis of PFAS**  
**Shun-Hsin Liang Ph.D.**, Sr. Principal Scientist, Restek Corporation, Bellefonte, PA

**We wish to see you**  
**at**  
**EURO ANALYTICA-2024**



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