



Conference Agenda
**12th International Symposium on Drug Analysis and 32nd International Symposium
on Pharmaceutical and Biomedical Analysis**

Date: Sunday, 11th September 2022

4:00pm	Registration
4:30pm	Opening Ceremony: Welcome - International BSPS Award Ceremony
5:00pm 5:40pm	Plenary Session 1: TOPIC 3 Biopharmaceuticals and gene/cell/tissue therapies (ATMPs) (development, bioanalysis, metabolism, etc.) Ilona REISCHL - The regulatory perspectives on ATMP development Location: Chair: XXX Chair: XXX
5:40pm 6:20pm	Plenary Session 2: TOPIC 8 Pharmaceutical regulatory quality (including novel guidelines, substandard and falsified medicines, vaccines, ATMPs, etc) Ulrike HOLZGRABE - Juggling analytes, column chemistry and charged aerosol detection – HPLC analysis of weak chromophore drugs Location: Chair: XXX Chair: XXX
6:20pm 8:30pm	Welcome reception



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Date: Monday, 12th September 2022

8:00am 8:45am	Registration Location: XXX	
8:45am 9:25am	Plenary Session 3: TOPIC 1 Affinity and bioactivity (ligand binding analytics) H. WÄTZIG - Biomolecules and their physicochemical properties: charge interactions, CIEF and affinity CE Location: Aud. V. Van Gogh Chair: XXX Chair: XXX	
Switch rooms		
	Session A-1: TOPIC 11 Biophysical and biological quality control techniques for medicines Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-1: TOPIC 9 Pharmaceutical processing (multivariate approaches, fingerprinting, chemometrics, QbD) & TOPIC7 Natural product pharmaceuticals Location: Aud. Gutenberg Chair: XXX Chair: XXX
9:30am 10:00am	KN: K. Zhang - Automated high-throughput oligonucleotide-lipid nanoparticle preparation and analytical characterization	KN: L. C. Klein Junior - The use of chemometrics to study natural products
10:00am 10:20am	V. Ioffe Laquinimod Sodium Capsules, 0.6 mg: Analysis of a Foreign "Small Capsule" Found in a Container of the Batch for Clinical Supply	Q. Cass Chemical profile of the marine sponge Topsentia ophiraphidites from Fernando de Noronha Archipelago (Brazil)
10:20am 10:40am	F. Aidawari N-nitrosodimethylamine (NDMA) contamination of pharmaceuticals: ranitidine as a study-case and the lessons learned	S. Montanari Determination of Bisphenol A as contaminant in microalgae by GC-MS
10:40am 11:00am	Y. Zhang Evaluation of the delivered and the fine particle doses in different pharmaceutical formulations of dry powder inhaler containing formoterol	O. Rojo-Poveda Evaluation of Cocoa Bean Shell Antimicrobial Activity and Tentative Active Compound Identification through Metabolomic Analysis
11:00am 11:20am	Coffee break Location: Plisnier room	
	Young Scientist Session 1 Location: XXX Chair: XXX Chair: XXX OC: 5	
11:20am 11:35am	C. Duchateau Quality control of CBD based-products on the Belgian market	
11:35am 11:50am	A. Montis Targeted and untargeted mass spectrometry-based metabolomics for chemical profiling of coffee species	
11:50am 12:05pm	Ngoc-Thao-Hien Le Simultaneous quantitation of 11 major alkaloids for quality control of Lepidium meyenii (Maca) in food supplements	
12:05pm 12:20pm	Sébastien Sinaeve Nephroprotective effect of a methanolic extract of two Ganoderma species and its association in an in vitro model of cisplatin induced tubulotoxicity	
12:20pm 12:35pm	Cristina Terenzi Valorization of by-products from agro-foods for pharmaceutical, cosmetic, nutraceutical applications	
12:35pm 1:30pm	Lunch Location: XXX	
1:30pm 2:15pm	Poster Session 1 Location: XXX	Tutorial: (To be confirmed) Location: XXX
2:15pm 3:00pm		
3:00pm 3:15pm	Coffee break Location: Plisnier room	
	Session A-2: TOPIC 8 Pharmaceutical regulatory quality (including novel guidelines, counterfeiting, vaccines, etc) Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-2: TOPIC 5 Omics for personalized medicine (microbiome, genomics, metabolomics and proteomics, peptidomics, lipidomics, venomics, etc) Location: Aud. Gutenberg Chair: XXX Chair: XXX
3:15pm 3:45pm	KN: M. Thevis - Chromatographic-mass spectrometric approaches in sports drug testing - challenges and advances	KN: R. Ramautar - Advances and Utility of Capillary Electrophoresis Mass Spectrometry in Micro-Metabolomics
3:45pm 4:05pm	P-Y Sacré Applications of vibrational spectroscopy and hyperspectral imaging for the analysis of substandard and falsified medicines.	J. de Oliveira Plasma Metabolomic Profiling of Patients with Primary Biliary Cholangitis
4:05pm 4:25pm	J. Verrax The national quality improvement program on compounded medicines by the Association of Pharmacists Belgium: how analytical sciences can promote patients' health.	E. Olesti Struggling to make it to the egg: metabolomics of seminal liquid to understand human fertility decline
4:25pm 4:45pm	A. Yemoua Quality control of paracetamol generic tablets marketed in Benin and search of its two impurities p-aminophenol and p-nitrophenol	M. Wells Development of a bioassay-guided fractionation protocol to unveil toad venoms as a new source of potential antimalarial candidates



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Date: Tuesday, 13th September 2022

8:00am 8:40am	Registration Location: XXX	
8:40am 9:20am	Plenary Session 4: G. KERSTEN - Vaccine characterization: from black box to well-defined biologics Location: Aud. V. Van Gogh Chair: XXX Chair: XXX	
	Young Scientist Session 2 Location: XXX Chair: XXX Chair: XXX OC: 5	
9:20am 9:35am	M. Kaur Effect of 3',6-dinonyl neamine on membrane remodelling in <i>Pseudomonas aeruginosa</i>	
9:35am 9:50am	M. Gou Use of CE-IM-MS as a complementary tool to microfluidic-LC-IM-MS for cell surface antigen discovery	
9:50am 10:05am	A. Descamps Quorum Sensing Peptides in biofluids: a multifactorial "to be or not to be" approach.	
10:05am 10:20am	A. Bodinville Investigation of the interaction between HPV and host cell receptor by affinity capillary electrophoresis and bio-layer interferometry	
10:20am 10:35am	T. Nguyen Analytical support to optimize outpatient parenteral antimicrobial therapy	
10:35am 11:00am	Coffee break Location: XXX	
	Session A-3: TOPIC 4 Drug discovery and development (including MS and imaging in ADME studies) Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-3: TOPIC 10 Sampling and sample preparation (including non-invasive analytical techniques) Location: Aud. M. Curie Chair: XXX Chair: XXX
11:00am 11:30am	KN: P Horvatovich - Importance of data pre-processing in accurate drug distribution profiling with LC-MS/MS and mass spectrometry imaging	KN: J. Pawliszyn - Rapid screening by directly coupling sampling/sample preparation devices to mass spectrometry
11:30am 11:50am	F. Almeida Harnessing native MS and AS-MS to develop new therapeutics for challenging targets	J. Viseur Screening of 54 pesticides by mass spectrometry and quantitative validation of 14 pesticides for the urine analysis of endometriosis patients
11:50am 12:10pm	V. dos Reis Beta-secretase 1 and Acetylcholinesterase co-immobilized enzyme reactors: Models for dual-ligand screening	A. Farcasanu Assessment of the ocular biodistribution profile of topically administered lutein by magnetic resonance spectroscopy
12:10pm 12:30 pm	C. Davoine Affinity capillary electrophoresis for fragment-based drug discovery projects: hit discovery and binding site characterization	
12:30pm 1:30pm	Lunch Location: XXX	
1:30pm 2:15pm	Poster Session 2 Location: XXX	Tutorial: (to be confirmed) Location: XXX
2:15pm 2:30pm		
	Young Scientist Session 3 Location: XXX Chair: XXX Chair: XXX OC: 5	
2:30pm 2:45pm	G. Visconti A novel internal calibration approach for LC-MS/MS-based monitoring of chronic kidney disease related metabolite concentrations	
2:45pm 3:00pm	M. Leveque Identification of new therapeutic candidates targeting representative RNA probes of Steinert's disease by affinity capillary electrophoresis	
3:00pm 3:15pm	M. Closset Development and validation of a stability-indicating assay method for Gemcitabine	
3:15pm 3:30pm	M. Müjgan Gürbüz The first electrochemical sensor for the determination of Ibrutinib in human serum in the presence of anionic surfactant	
3:30pm 3:45pm	J. Horne Elaboration of a screening design for the optimization of silver nanoparticles synthesized by chemical reduction based on an Analytical Quality by Design approach	
	Switch Rooms	
	Session A-4: TOPIC 13 Novel methodologies for drug analysis Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-4: TOPIC 2 Biomedical and diagnostic applications (including biomarkers, biosensors, point of care analysis and in vitro diagnostic) Location: Aud. Gutenberg Chair: XXX Chair: XXX
3:50pm 4:20pm	G. Somsen Fast and isomer-specific identification of new psychoactive substances by trapped ion mobility mass spectrometry	KN: S. Özkan - Electroanalytical Carbon Based Nanosensors: Their potential use in the life sciences and clinical medicine
4:20pm 4:40pm	B. Desmedt THE USE OF NITROUS OXIDE WHIPPETS AS A RECREATIONAL DRUG: HIDDEN HEALTH RISKS	A. Golcu Interaction of epilepsy drug Pregabalin with dsDNA
4:40pm 5:00pm	Coffee break Location: XXX	
	Session A-5: TOPIC 13 Novel methodologies for drug analysis Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-5: TOPIC 2 Biomedical and diagnostic applications (including biomarkers, biosensors, point of care analysis and in vitro diagnostic) Location: Aud. Gutenberg Chair: XXX Chair: XXX
5:00pm 5:30pm	KN: C. West - Interest of unified chromatography (UC) to analyze polar biomolecules in pharmaceutical products	KN: K. Hamase - Multi-dimensional HPLC analysis of chiral amino acids in complicated matrices including clinical, food and extraterrestrial samples
5:30pm 5:50pm	D. Mangelings Evaluation of different supercritical fluid chromatographic systems to model the skin permeability of pharmaceutical and cosmetic compounds	G. Oczelkay Disposable Rapid Magnetic Microbeads-based Immunoplatforam for the Sensitive Amperometric Assessment of SOX2
5:50pm 6:10pm	A. Dispas SFC-MS: New opportunities for pharmaceutical quality control	M.-L. Custers Neurofilament light chain in the interstitial fluid of the mouse brain, a novel biomarker for epilepsy?
7:00pm 10:30pm	Symposium dinner Location: XXX	



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Date: Wednesday, 14th September 2022

8:00am 8:45am	Registration Location: XXX	
8:45am 9:25am	Plenary Session 5: TOPIC 3 Biopharmaceuticals and gene/cell/tissue therapies (ATMPs) (development, bioanalysis, metabolism, etc.) Davy GUILLARME - Protein biopharmaceuticals analysis with advanced chromatography and mass spectrometry approaches Location: Aud. V. Van Gogh Chair: XXX Chair: XXX	
Switch Rooms		
	Session A-6: TOPIC 3 Biopharmaceuticals and gene/cell/tissue therapies (ATMPs) (development, bioanalysis, metabolism, etc.) Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-6: TOPIC 6 Micro and nanotools in pharmaceutical analysis (SERS, nanofluidics, nanomagnets, single cell analysis, etc) Location: Aud. Gutemberg Chair: XXX Chair: XXX
9:30am 10:00am	KN: A. Van Eeckhaut - Peptide quantification at the picomolar level in volume-limited biological samples: obstacles to tackle	KN: M. Taverna - Miniaturized strategies for Glycosylation analysis of Biopharmaceuticals and disease Biomarkers
10:00am 10:20am	A. Delobel Characterisation of AAV gene therapies by chromatographic and electrophoretic techniques	S. Irem Kaya Metal-ion assisted molecularly imprinted electrochemical sensor for the selective determination of acridinium bromide
10:20am 10:40am	G. Nys High performance analysis of N-glycans released from Alglucosidase Alfa	Y. Parsajoo Application of immobilized enzyme reactors for the determination of myeloperoxidase inhibition
10:40am 11:00am	Coffee break Location: XXX	
	Session A-7: TOPIC 3 Biopharmaceuticals and Advanced Therapy Medicinal Products (bioanalysis, metabolism, etc) Location: Aud. M. Curie Chair: XXX Chair: XXX	Session B-7: TOPIC 12 Environmental fate and ecological characteristics of drugs Location: Aud. Gutemberg Chair: XXX Chair: XXX
11:00am 11:20am	C. Temporini ANALYTICAL SETTINGS TO SUPPORT RECOMBINANT HUMAN COLLAGEN PRODUCTION BY FERMENTATION	E. Wynendaele Sustainability in pharmaceutical (bio)analysis
11:20am 11:40am	G. Vanhoenacker Chromatographic approaches to address challenges related to polysorbate analyses in biopharmaceuticals.	M. Tiritan Enantiomeric profile of psychoactive drugs in wastewaters and river surface waters
Switch Rooms		
11:45am 12:25pm	Plenary Session 6: S. Pedersen-Bjergaard - Microextraction using artificial liquid membranes and electrical fields Location: Aud. V. Van Gogh Chair: XXX Chair: XXX	
12:25am 1:05pm	Closing Ceremony (incl. announcement PBA 2023 and DA 2026, Young Scientist prize, Poster prizes) Location: Aud. V. Van Gogh	
1:05pm 2:00pm	Farewell recepA7:C17	