Guide of the Congress Participant

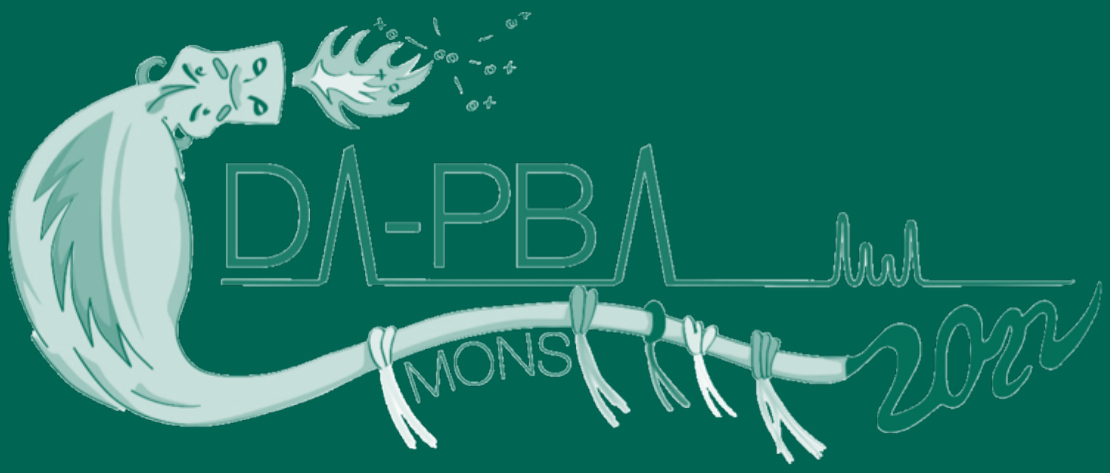
12th International Symposium on Drug Analysis

&

32nd International Symposium on Pharmaceutical and Biomedical Analysis

From 11th to 14th September 2022

University of Mons (Belgium)



SYMPOSIUM

The Organising Committee of the International Symposium DA-PBA 2022 are pleased to announce thier 2022 edition, which will take place in Mons, Belgium, from 11th to 14th September, 2022. This symposium will be a joint meeting of two distinguished series: the 12th International Symposium on Drug Analysis and the 32nd International Symposium on Pharmaceutical and Biomedical Analysis. It follows a series of successful symposia organized by the Belgian Society of Pharmaceutical Sciences (BSPS) in Belgium (Brussels 1983, Brussels 1986, Antwerp 1989, Liège 1992, Leuven 1995, Brussels 1998, Brugge 2002, Namur 2006, Antwerp 2010, Liège 2014, Leuven 2018.) and brings together leading scientists from all over the world in the area of fundamental and applied pharmaceutical analysis.

DA-PBA 2022 will cover all aspects of pharmaceutical and biomedical analysis.

Topics of interest

1. Affinity and bioactivity (ligand binding analytics)
2. Biomedical and diagnostic applications (including biomarkers, biosensors, point of care analysis and in vitro diagnostic)
3. Biopharmaceuticals and Advanced Therapy Medicinal Products (bioanalysis, metabolism, etc.)
4. Drug discovery and development (including MS and imaging in ADME studies)
5. Omics for personalized medicine (microbiome, genomics, metabolomics and proteomics, peptidomics, lipidomics, venomics, etc.)
6. Micro and nanotools in pharmaceutical analysis (SERS, nanofluidics, nanomagnets, single cell analysis, etc.)
7. Natural product pharmaceuticals
8. Pharmaceutical regulatory quality (including novel guidelines, counterfeiting, vaccines, etc)
9. Pharmaceutical processing (multivariate approaches, fingerprinting, chemometrics, QbD)
10. Sampling and sample preparation (including non-invasive analytical techniques)
11. Biophysical and biological quality control techniques for medicines
12. Environmental fate and ecological characteristics of drugs
13. Novel methodologies for drug analysis

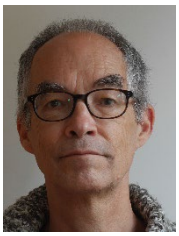
PLENARY

D. Guillarme (University of Geneva - Switzerland)

Protein biopharmaceuticals analysis with advanced chromatography and mass spectrometry approaches

S. Pedersen-Bjergaard (University of Oslo - Norway)

Microextraction using artificial liquid membranes and electrical fields



G. Kersten (Leiden/Amsterdam Center for Drug Research – The Netherlands)

Vaccine characterization: from black box to well-defined biologics

U. Holzgrabe (Julius-Maximilians-Universität Würzburg - Germany)

Juggling analytes, column chemistry and charged aerosol detection - HPLC analysis of weak chromophore drugs

H. Watzig (Technische Universität Braunschweig - Germany)

Biomolecules and their physicochemical properties: charge interactions, CIEF and affinity CE

Ilona Reischl (EMA CAT vice-chair - Austria)

The regulatory perspective on ATMP development

KEYNOTE

Kelly Zhang (Genentech Incorporated - USA)

Automated high-throughput oligonucleotide-lipid nanoparticle preparation and analytical characterization

Ann Van Eeckhaut (VUB - Belgium)

Peptide quantification at the picomolar level in volume-limited biological samples: obstacles to tackle

Janusz Pawliszyn (University of Waterloo - Canada)

Rapid screening by directly coupling sampling/sample preparation devices to mass spectrometry

Péter Horvatovich (University of Groningen – The Netherlands)

Importance of data pre-processing in accurate drug distribution profiling with LC-MS/MS and mass spectrometry imaging

Luiz Carlos Klein Junior (Universidade do Vale do Itajaí - Brazil)

The use of chemometrics to study natural products

Rawi Ramautar (Leiden University – The Netherlands)

Advances and Utility of Capillary Electrophoresis-Mass Spectrometry in Micro-Metabolomics

Caroline West (Université d'Orléans - France)

Interest of unified chromatography (UC) to analyze polar biomolecules in pharmaceutical products

Sibel Özkan (Ankara U. - Turkey)

Electroanalytical Carbon Based Nanosensors: Their potential use in the life sciences and clinical medicine

Myriam Taverna (Université Paris-Saclay - France)

Miniaturized strategies for Glycosylation analysis of Biopharmaceuticals and disease Biomarkers

Kenji Hamase (Kyushu University - Japan)

Multi-dimensional HPLC analysis of chiral amino acids in complicated matrices including clinical, food and extraterrestrial samples

Mario Thevis (European Monitoring Center for Emerging Doping Agents - Germany)

Chromatographic-mass spectrometric approaches in sports drug testing - challenges and advances

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PROGRAMME

Sunday, 11th September 2022

4:00pm	Registration Location: Warocqué Building
4:30pm | 5:10pm	Opening Ceremony: Welcome - International BSPS Award Ceremony UMons Rector, B. Blankert, C. Delporte, A. Van Schepdael Location: Warocqué Building - Academic Room
5:10pm| 5:50pm	Plenary Session 1 (PL1): I. REISCHL - The regulatory perspectives on ATMP development Location: Warocqué Building - Academic Room Chair: A. Van Schepdael Chair: B. Blankert
5:50pm | 6:30pm	Plenary Session 2 (PL2): U. HOLZGRABE - Juggling analytes, column chemistry and charged aerosol detection – HPLC analysis of weak chromophore drugs Location: Warocqué Building - Academic Room Chair: A. Van Schepdael Chair: C. Delporte
6:30pm | 8:30pm	Welcome reception Location: Warocqué Building

Monday, 12th September 2022 - Morning sessions

8:00am | 8:45am	Registration Location: Building "Les grands amphis" - Main Hall	
8:45am | 9:25am	Plenary Session 3 (PL3): H. WÄTZIG - Biomolecules and their physicochemical properties: charge interactions, CIEF and affinity CE Location: Aud. V. Van Gogh Chair: M. Fillet	
	Switch rooms	
	Session A-1: Biophysical and biological quality control techniques for medicines Location: Aud. V. Van Gogh Chair: I. Reischl	Session B-1: Pharmaceutical processing (multivariate approaches, fingerprinting, chemometrics, QbD) & Natural product pharmaceuticals Location: Aud. M. Curie Chair: Y. Vander Heyden
9:30am | 10:00am	KN1: K. Zhang - Automated high-throughput oligonucleotide-lipid nanoparticle preparation and analytical characterization	KN2: 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 (OC1)	Q. Cass | Chemical profile of the marine sponge Topsentia ophiraphidites from Fernando de Noronha Archipelago (Brazil) (OC4)
10:20am | 10:40am	F. Aldawsari | N-nitrosodimethylamine (NDMA) contamination of pharmaceuticals: ranitidine as a study-case and the lessons learned (OC2)	S. Montanari | Determination of Bisphenol A as contaminant in microalgae by GC-MS (OC5)
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 (OC3)	O. Rojo-Poveda | Evaluation of Cocoa Bean Shell Antimicrobial Activity and Tentative Active Compound Identification through Metabolomic Analysis (OC6)
11:00am | 11:20am	Coffee break Location: Plisnier room	
	Young Scientist Session 1 Location: Aud. V. Van Gogh Chair: A. Van Eeckhaut Chair: M. Thevis	
11:20am | 11:35am	C. Duchateau | Quality control of CBD based-products on the Belgian market (YC1)	
11:35am | 11:50am	A. Montis | Targeted and untargeted mass spectrometry-based metabolomics for chemical profiling of coffee species (YC2)	
11:50am | 12:05pm	N.-T.-H. Le | Simultaneous quantitation of 11 major alkaloids for quality control of Lepidium meyenii (Maca) in food supplements (YC3)	
12:05pm | 12:20pm	S. Sinaeve | Nephroprotective effect of a methanolic extract of two Ganoderma species and its association in an in vitro model of cisplatin induced tubulotoxicity (YC4)	
12:20pm | 12:35pm	C. Terenzi | Valorization of by-products from agro-foods for pharmaceutical, cosmetic, nutraceutical applications (YC5)	
12:35pm | 1:30pm	Lunch Location: Plisnier room	

Monday, 12th September 2022 - Afternoon sessions

1:30pm | 3:00pm	Poster Session 1 Location: Plisnier room	
3:00pm | 3:15pm	Coffee break Location: Plisnier room	
	Session A-2: Pharmaceutical regulatory quality (including novel guidelines, counterfeiting, vaccines, etc) Location: Aud. V. Van Gogh Chair: B. De Spiegeleer	Session B-2: Omics for personalized medicine (microbiome, genomics, metabolomics and proteomics, peptidomics, lipidomics, venomics, etc) Location: Aud. M. Curie Chair: J.-L. Veuthey
3:15pm | 3:45pm	KN3: M. Thevis - Chromatographic-mass spectrometric approaches in sports drug testing - challenges and advances	KN4: 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 (OC7)	R. Oliveira | Plasma Metabolomic Profiling of Patients with Primary Biliary Cholangitis (OC10)
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 (OC8)	V. Gonzáles-Ruiz | Struggling to make it to the egg: metabolomics of seminal liquid to understand human fertility decline (OC11)
4:25pm | 4:45pm	A. Yemoa | Quality control of paracetamol generic tablets marketed in Benin and search of its two impurities p-aminophenol and p-nitrophenol (OC9)	M. Wells | Development of a bioassay-guided fractionation protocol to unveil toad venoms as a new source of potential antimalarial candidates (OC12)
6:00 pm | 7:30 pm	Social Event - Visit of Mons Location: City center (Grand place)	

Tuesday, 13th September 2022 - Morning sessions

8:00am | 8:40am	Registration Location: Building "Les grands amphis" - Main Hall	
8:40am | 9:20am	Plenary Session 4 (PL4): G. KERSTEN - Vaccine characterization: from black box to well-defined biologics Location: Aud. V. Van Gogh Chair: K. Hamase	
	Young Scientist Session 2 Location: Aud. V. Van Gogh Chair: A. Covaci Chair: Q. Cass	
9:20am | 9:35am	M. Kaur | Effect of 3',6-dinonyl neamine on membrane remodelling in *Pseudomonas aeruginosa* (YC6)	
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 (YC7)	
9:50am | 10:05am	A. Descamps | Quorum Sensing Peptides in biofluids: a multifactorial "to be or not to be" approach (YC8)	
10:05am | 10:20am	A. Boclinville | Investigation of the interaction between HPV and host cell receptor by affinity capillary electrophoresis and bio-layer interferometry (YC9)	
10:20am | 10:35am	T. Nguyen | Analytical support to optimize outpatient parenteral antimicrobial therapy (YC10)	
10:35am | 10:40am	Homage to Prof. Jos Hoogmartens	
10:40am | 11:00am	Coffee break Location: Plisnier room	
	Session A-3: Drug discovery and development (including MS and imaging in ADME studies) Location: Aud. V. Van Gogh Chair: G. Massolini	Session B-3: Sampling and sample preparation (including non-invasive analytical techniques) Location: Aud. M. Curie Chair: G. Muccioli
11:00am | 11:30am	KN5: P. Horvatovich - Importance of data pre-processing in accurate drug distribution profiling with LC-MS/MS and mass spectrometry imaging	KN6: 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 (OC13)	J. Viseur | Screening of 54 pesticides by mass spectrometry and quantitative validation of 14 pesticides for the urine analysis of endometriosis patients (OC16)
11:50am | 12:10pm	C. L. Cardoso | Beta-secretase 1 and Acetylcholinesterase co-immobilized enzyme reactors: Models for dual-ligand screening (OC14)	E. Bodoki| Assessment of the ocular biodistribution profile of topically administered lutein by magnetic resonance spectroscopy (OC17)
12:10pm | 12:30 pm	C. Davoine | Affinity capillary electrophoresis for fragment-based drug discovery projects: hit discovery and binding site characterization (OC15)	T. Bržezická | The on-line preconcentration in affinity capillary electrophoresis (OC18)
12:30pm | 1:30pm	Lunch Location: Plisnier room	

Tuesday, 13th September 2022 - Afternoon sessions

1:30pm | 2:30pm	Poster Session 2 Location: Plisnier room	
	Young Scientist Session 3 Location: Aud. V. Van Gogh Chair: A. Ceccato Chair: C. West	
2:30pm | 2:45pm	G. Visconti | A novel internal calibration approach for LC-MS/MS-based monitoring of chronic kidney disease related metabolite concentrations (YC11)	
2:45pm | 3:00pm	M. Leveque | Identification of new therapeutic candidates targeting representative RNA probes of Steinert's disease by affinity capillary electrophoresis (YC12)	
3:00pm | 3:15pm	M. Closset | Development and validation of a stability-indicating assay method for Gemcitabine (YC13)	
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 (YC14)	
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 (YC15)	
	Switch Rooms	
	Session A-4: Novel methodologies for drug analysis Location: Aud. V. Van Gogh Chair: A. Covaci	Session B-4: Biomedical and diagnostic applications (including biomarkers, biosensors, point of care analysis and in vitro diagnostic) Location: Aud. M. Curie Chair: P. Van Antwerpen
3:50pm | 4:20pm	G. Somsen | Fast and isomer-specific identification of new psychoactive substances by trapped ion mobility mass spectrometry (OC19)	KN7: 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 (OC20)	A. Golcu | Interaction of epilepsy drug Pregabalin with dsDNA (OC23)
4:40pm | 5:00pm	Coffee break Location: Plisnier room	
	Session A-5: Novel methodologies for drug analysis Location: Aud. V. Van Gogh Chair: G. Somsen	Session B-5: Biomedical and diagnostic applications (including biomarkers, biosensors, point of care analysis and *in vitro* diagnostic) Location: Aud. M. Curie Chair: S. Özkan
5:00pm | 5:30pm	KN8: C. West - Interest of unified chromatography (UC) to analyze polar biomolecules in pharmaceutical products	KN9: 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 (OC21)	G. Oczelikay | Disposable Rapid Magnetic Microbeads-based Immunoplatform for the Sensitive Amperometric Assessment of SOX2 (OC24)
5:50pm | 6:10pm	A. Dispas | SFC-MS: New opportunities for pharmaceutical quality control (OC23)	M.-L. Custers | Neurofilament light chain in the interstitial fluid of the mouse brain, a novel biomarker for epilepsy? (OC26)
7:00pm | 10:30pm	Symposium dinner Location: Faculty Club	

Wednesday, 14th September 2022

8:00am | 8:45am	Registration Location: Building "Les grands amphis" - Main Hall	
8:45am | 9:25am	Plenary Session 5 (PL5): D. GUILLARME - Protein biopharmaceuticals analysis with advanced chromatography and mass spectrometry approaches Location: Aud. V. Van Gogh Chair: A. Delobel	
	Switch Rooms	
	Session A-6: Biopharmaceuticals and gene/cell/tissue therapies (ATMPs) (development, bioanalysis, metabolism, etc.) Location: Aud. V. Van Gogh Chair: S. Rudaz	Session B-6: Micro and nanotools in pharmaceutical analysis (SERS, nanofluidics, nanomagnets, single cell analysis, etc) Location: Aud. M. Curie Chair: E. Adams
9:30am | 10:00am	KN10: A. Van Eeckhaut - Peptide quantification at the picomolar level in volume-limited biological samples: obstacles to tackle	KN11: 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 (OC26)	S. Irem Kaya | Metal-ion assisted molecularly imprinted electrochemical sensor for the selective determination of aclidinium bromide (OC30)
10:20am | 10:40am	G. Nys | High performance analysis of N-glycans released from Alglucosidase Alfa (OC27)	Y. Parsajoo | Application of immobilized enzyme reactors for the determination of myeloperoxidase inhibition (OC31)
10:40am | 11:00am	Coffee break Location: Plisnier room	
	Session A-7: Biopharmaceuticals and Advanced Therapy Medicinal Products (bioanalysis, metabolism, etc) Location: Aud. V. Van Gogh Chair: D. Guillarme	Session B-7: Environmental fate and ecological characteristics of drugs Location: Aud. M. Curie Chair: E. Ziemons
11:00am | 11:20am	C. Temporini | Analytical settings to support recombinant human collagen production by fermentation (OC28)	E. Wynendaele| Sustainability in pharmaceutical (bio)analysis (OC32)
11:20am | 11:40am	G. Vanhoenacker | Chromatographic approaches to address challenges related to polysorbate analyses in biopharmaceuticals (OC29)	M. Tiritan | Enantiomeric profile of psychoactive drugs in wastewaters and river surface waters (OC33)
	Switch Rooms	
11:45am | 12:25pm	Plenary Session 6 (PL6): S. Pedersen-Bjergaard - Microextraction using artificial liquid membranes and electrical fields Location: Aud. V. Van Gogh Chair: J. Crommen	
12:25am | 1:05pm	Closing Ceremony Announcements PBA 2023 and DA 2026, Young Scientist prize, Poster prizes Location: Aud. V. Van Gogh	
1:05pm | 2:00pm	Farewell reception Location: Plisnier room	

LIST OF POSTER COMMUNICATIONS

1	The mechanism discovery of the binding interactions of Azacitidine with dsDNA via computational chemistry tools involving molecular docking, molecular dynamics simulation, and supporting analyses by multi-spectroscopic analyses	Ayşegül Gölcü, Soykan Agar, Pelin Şenel, Yusuf Sehat İş and Mine Yurtsever
2	Immobilization of cytochrome P450 enzymes: a new approach in drug metabolism and biocatalysis	Izadora Liranco Furlani, Regina Vincenzi Oliveira and Quezia Bezerra Cass
3	HILIC-MS/MS for the quantification of 29 non-derivatized amino acids in human urine	Xiongwei Yin, Erwin Adams and Ann Van Schepdael
4	Method development for Lipophilicity determination of very hydrophobic pharmaceutical drugs via MEKC and MEEKC	Robert Minkner and Hermann Wätzig
5	Application of multivariate analysis, linear regression and hierarchical modeling for evaluation of robustness in untargeted metabolomics	Julia Jacyna, Marta Kordalewska, Paweł Wiczling and Michał Markuszewski
6	Development of a quantification method of serum amyloid A variants in plasma, synovial fluid and cell culture medium and a co-culture model to better understand rheumatoid arthritis	Cindy Nix, Nys Gwenaël, Cobraiville Gaël, Dominique de Seny and Marianne Fillet
7	A new convenient tool to analyse protein glycosylation based on FT-IR spectroscopy	Allison Derenne, Sabrna Hamla, Kheiro-Mouna Derfoufi, Pierre-Yves Sacré, Eric Ziemons, Erik Goormaghtigh and Philippe Hubert
8	Production of SPMs by endothelial cells and vascular smooth muscle cells in presence of Mox-LDLs and nat-LDLs	Cecilia Tangeten, Keziah Korpak, Alexandre Rousseau, Axelle Bourez, Julian Viseur, Cedric Delporte, Karim Zouaoui Boudjeltia and Pierre Van Antwerpen
9	Liquid chromatography tandem mass spectrometry determination method of bencycloquidium bromide: application to drug interaction study in human plasma	Janvier Engelbert Agbokponto, Achille Yemoa, Assogba Gabin Assanhou and Li Ding
10	Simultaneous determination of gentamicin and tacrolimus in rat whole blood by LC–MS/MS and its application to pharmacokinetic study	Shrooq Altaweel, Aliyah Almomen, Ann Vanschepdael and Erwin Adams
11	Molecularly imprinted polymers via high internal phase emulsions polymerization for selective retention of Sartans	Francesca Rinaldi, Andrea Speltini, Giancarla Alberti, Fiorenzo Casero, Enrica Calleri and Gabriella Massolini

12	Multidimensional Fingerprint Development for the Detection of Tribulus terrestris in Plant Food Supplements	Surbhi Ranjan, Sano-Magnifique Dusingizimana, Tanika Van Mulders, Eric Deconinck and Erwin Adams
13	Method development for studying protein binding properties by mobility shift affinity capillary electrophoresis with collagen as ligand	Sophie Hartung, Christin Scheller and Hermann Wätzig
14	NIR and MIR spectroscopic fingerprints combined with chemometric tools for a successful geographical discrimination of Argan oil from four Moroccan regions	Meryeme Elmaouardi, Kris De Braekeleer, Abdelaziz Bouklouze and Yvan Vander Heyden
15	Enantioseparation and quantification of amino acids with chiral capillary-electrophoresis mass spectrometry	Sabrina Ferré, Víctor González-Ruiz and Serge Rudaz
16	Temporal monitoring of pharmaceutical consumption using a wastewater-based epidemiologic approach	Tim Boogaerts, Maarten Quireyns, Natan Van Wichelen, Bram Pussig, Hans De Loof, Alexander van Nuijs and Adrian Covaci
17	Greener approaches in the extraction of the biological samples before the analysis of naltrexone and its major metabolite by HPLC	Kenan Can Tok, Ceren H Bozmaoglu, Mehmet Gumustas and Sinan Suzen
18	Eco-friendly extraction of bioactive metabolites from Ecuadorian quinoa (Chenopodium quinoa Willd.) by natural deep eutectic solvents (NADES)	Veronica Taco Taco, Philippe Savarino, Irène Semay, Samira Benali, Elena Villacrés, Jean-Marie Raquez, Pascal Gerbaux, Pierre Duez and Amandine Nachtergael
19	Set up of an UPLC-MS quantification method for short chain fatty acids, branched chain fatty acids and citrate cycle metabolites	Adrien Paquot and Giulio Muccioli
20	Inhibition by pesticides of the main CYP450 forms involved in drug metabolism and prediction of in vivo inhibition	Anderson Moraes de Oliveira
21	Development and validation of an HPLC-PDA method to quantify methadone in syrups prepared by pharmacists	Jonathan Collart, Kathleen Schroyens, Anna-Marie Gruyters, Alice Ameryckx, Julien Verrax and Sophie Sarre
22	Neomycin (NEO) and kanamycin (KAN) as potential human serum albumin (HSA) antioxidant activity modulators – calorimetric and spectroscopic study	Wojciech Rogóż, Aleksandra Owczarzy, Karolina Kulig, Jadwiga Pożycka and Małgorzata Maciążek-Jurczyk
23	The use of a chitosan as a drug delivery system with prolonged release of hydrocortisone	Karolina Kulig, Agata Woźniak, Aleksandra Owczarzy, Wojciech Rogóż and Małgorzata Maciążek-Jurczyk
24	Spectroscopic study of 5-alkyl-12(H)-quino[3,4-b][1,4]benzothiazinium chlorides in terms of the in vitro interaction carrier plasma proteins	Aleksandra Owczarzy, Jadwiga Pożycka, Andrzej Zięba, Karolina Kulig, Wojciech Rogóż and Małgorzata Maciążek-Jurczyk
25	Effect of palmitic acid on glycated human serum albumin tertiary structure	Agnieszka Szkudlarek and Małgorzata Maciążek-Jurczyk
26	Permeability and pharmacokinetic studies of a new amphotericin B formulation loaded in lipid nanoparticles to be orally administered	Franciane de Oliveira
27	Modelling the enantiorecognition of structurally diverse pharmaceuticals on O-substituted polysaccharide-based stationary phases	Pieter De Gauquier, Jordy Peeters, Kenno Vanommeslaeghe, Yvan Vander Heyden and Debby Mangelings

28	Fabrication and molecular modeling design of a highly selective and sensitive molecularly imprinted electrochemical sensor for ribavirin detection	Ahmet Cetinkaya, M. Altay Unal, M. Emin Çorman, Lokman Uzun and Sibel A. Ozkan
29	Development of molecularly imprinted electrochemical sensor for codeine detection in real samples	Merve Yence, Ahmet Cetinkaya, M.Emin Çorman, Lokman Uzun, M.Gokhan Caglayan and Sibel A. Ozkan
30	Electrochemical sensor based on molecularly imprinted polymer coating for the selective and sensitive determination of tofacitinib citrate	Fatma Budak, Ahmet Çetİnkaya, Sariye İrem Kaya, Esen Bellur Atici and Sibel Ayşıl Özkan
31	Sensitive determination of amoxicilline and ceftazidime in the microdialysate of diabetic foot by capillary electrophoresis with large volume sample stacking	Petr Tuma and Vladimira Fejfarova
32	Separation of Different Types of Piperazine Antihistamines Drugs by Capillary Zone Electrophoresis	Navid Niaei and Jan Petr
33	A new platform for enzymatic enantioselective biosensing of amino acids in human plasma using the D-amino acid oxidase enzyme encapsulated in dendritic silica	Soodabeh Hassanpour and Jan Petr
34	New approach using Online SPE purification and procainamide for HILIC-FLR-MS N-glycan analysis	Yosra Helali, Axelle Bourrez, Arnaud Marchant, Pierre Van Antwerpen and Cedric Delporte
35	Chemical fingerprinting of Coffea canephora in the Yangambi collection by LC-HRMS and untargeted metabolomics	Olga Rojo-Poveda, Robrecht Bollen, Florence Souard, Lauren Verleysen, Rachel Ndezu, Hélène Mavar, Tom Ruttink, Filip Vandelook, Caroline Stevigny, Piet Stoffelen and Cedric Delporte
36	Evaluation of relationships between metabolic changes and clinical parameters in plasma and urine samples of pulmonary arterial hypertensive patients.	Renata Wawrzyniak, Alicja Dąbrowska-Kugacka, Margot Biesemans, Artur Furga, Bożena Zięba, Ewa Lewicka and Michał J. Markuszewski
37	On the formation of sodium taurocholate micelles in media that mimic the fasted and fed state intestinal fluid	Susana Amézqueta, Judith Ramos-Rodríguez, Elisabet Fuguet and Clara Ràfols
38	Determination of the binding parameters of flurbiprofen to human serum albumin by multiwavelength molecular fluorescence and computational analysis	Susana Amézqueta, José Luís Beltrán, Lluís Campos-Vicens, Francisco Javier Luque and Clara Ràfols
39	Selective determination of D-amino acids in the rat plasma and urine using a two-dimensional LC-MS/MS system and their regulation by D-amino acid oxidase	Chiharu Ishii, Yukiko Shimizu, Takeyuki Akita, Masashi Mita, Tadashi Okamura and Kenji Hamase
40	A molecular imprinted electrochemical sensor for selective and sensitive detection of tiotropium bromide	Ahmet Cetinkaya, S.Irem Kaya, Esen Bellur Atici, M. Emin Çorman, Lokman Uzun and Sibel A. Ozkan
41	Two fatal cases of sodium nitrite poisoning - the use of Ion-Pair Reversed Phase HPLC with UV detection	Joanna Dawidowska, Małgorzata Wacławik, Bartosz Wielgomas, Michał Jan Markuszewski and Michał Kaliszan
42	Ethnomycology, Sensory Analysis and Nutritional Composition of Eight Edible	Assumpta Mukandera, Eric Dulière, Jérôme Degreef, Claire Beaufay, Cony Decock,

	Mushrooms Consumed in the African Great Lakes Region	Stéphanie Fraselle, Jean Claude Rizinde, Charles Karangwa and Caroline Stévigny
43	Olanzapine concentration in dried blood spot and plasma samples	Marta Pelcová, Jan Juřica, Radka Vaňušaníková, Ondřej Peš and Zdeněk Glatz
44	The modern age of chemomometrics: What is the secret behind LC–ESI(+)/MS response generation?	Jovana Krmar, Ljiljana Tolić Stojadinović, Milan Vukićević, Tatjana Đurkić, Ana Protić and Biljana Otašević
45	Metabolomic response of four xenograft GIST models to imatinib treatment	Szymon Macioszek, Danuta Dudzik, Agnieszka Wozniak, Patrick Schöffski and Michal J. Markuszewski
46	Mixed-mode RP/WCX chromatographic system evaluation using QSRR modelling approach	Bojana Svrkota, Jovana Krmar, Ana Protić and Biljana Otašević
47	Development of an LC-MS/MS method for the combined quantification of oxysterols and bile acids	Martin Roumain and Giulio G. Muccioli
48	Characterization of the lipid content of extracellular vesicles isolated from human plasma	Terrasi Romano, Ludovic D'Auria, Pauline Bottemanne, Anne des Rieux, Vincent Van Pesch and Giulio G. Muccioli
49	Enantiomeric estimation of drugs consumption by gas chromatography	Ivan M. Langa, Ana Rita Ribeiro, Nuno Ratola, Virgínia M.F Gonçalves, Maria Elizabeth Tiritan and Cláudia Ribeiro
50	Optimization and validation of an ultra-high-pressure liquid chromatography mass spectrometry method for metabolomics of low-volume plasma samples	Gigly Del'Haye, Karen Segers, Christine Duverger, Ann Van Eeckhaut, Debby Mangelings and Yvan Vander Heyden
51	Semi-preparative enantioresolution of promethazine and its metabolites for enantiomeric profile in metabolic studies	Maria Miguel Coelho, Carla Fernandes, Fernando Remião and Maria Elizabeth Tiritan
52	Uncovering the Antiproliferative potentiel of toad venoms on metastatic melanoma	Laura Soumoy, Mathilde Wells, Ghanem Ghanem, Stéphanie Hambye, Sven Saussez, Bertrand Blankert and Fabrice Journe
53	Red yeast rice and related formulation quality control by a UHPLC-DAD method	Lara Davani, Cristina Terenzi, Serena Montanari, Angela De Simone and Vincenza Andrisano
54	Quantitative and Enantioselective Bioanalysis of Propranolol and its Hydroxy Metabolites by Supercritical Fluid Chromatography Hyphenated to Mass Spectrometry: The Need for Sample Preparation	Lukas Corbinian Harps and Maria Kristina Parr
55	Electrochemical Analysis of DNA Methylation using various carbon working electrodes	Burcu Dogan-Topal, Selva Bilge, Manolya Müjgan Gürbüz and Sibel Ayşıl Ozkan
56	Low-pg/mL quantification of complex disulfide-rich peptides in rat plasma using microflow LC-MS/MS	Ernst Bouvin and Sara Cifuentes
57	Assessment of reproducibility in high-throughput experiments by generating over 10,000 data points in an overnight run	Ernst Bouvin and Sara Cifuentes
58	Quantification of nitrosamines and related impurities in multiple drug products by LC-MS	Ernst Bouvin and Sara Cifuentes
59	Ultra-sensitive quantification of the low-level inhalant drugs fluticasone propionate and salmeterol xinafoate in human plasma	Ernst Bouvin and Sara Cifuentes

60	Novel therapeutic strategy targeting the EGFR and inhibiting PI3K/AKT/mTOR pathway in anaplastic thyroid carcinoma	Zehra-Cagla Kahvecioglu, Ami Toulehohoun, Danièle Feudjio Tagny, Samuel Vandecasteele, Charlotte Rogien, Fabrice Journé, Sophie Laurent, Sven Saussez and Carmen Burtea
61	PCSK9 variants affect differently the risk of type 2 diabetes mellitus development. Potential impact on the therapy with PCSK9 inhibitors	Sègbédé Edgard R. Tchéoubi, Casimir D. Akpovi, Frédérique Coppée, Alexandra Tassin, Anne-Emilie Declèves, Salomon E. Fiogbé, Gaétan J. Sègbo, Sophie Laurent and Carmen Burtea
62	Synthesis of new heterocyclic derivatives bearing benzimidazole moieties and evaluation of their biological activity	Isalyne Drewek, Aurélie Pietka, Dimitri Stanicki, Ruddy Wattiez and Sophie Laurent
63	Update on technological developments and opportunities with Workflow4Metabolomics	Lain Pavot, Mélanie Pétéra, Nils Paulhe, Yann Guitton, Gildas Le Corguillé, Julien Saint-Vanne, Marie Tremblay-Franco, Cécile Canlet, Jean-François Martin, Ralf Weber, Cedric Delporte, Florence Souard, Céline Dalle, Workflowformetabolomics Core Team and Franck Giacomoni
64	Untargeted Metabolomics Profiling of Patients with Progressive Familial Intrahepatic Cholestasis type 3 (PFIC3)	Juliana Magalhaes De Oliveira, Thais de Assis Lopes, Alex Castro, Juliana Goldbaum Crescente, Eduardo Luiz Rachid Cançado and Regina Vincenzi Oliveira

ABSTRACT BOOK

Abstract book is available on https://web.umons.ac.be/fr/evenements/the-12th-international-symposium-on-drug-analysis-and-the-32nd-international-symposium-on-pharmaceutical-and-biomedical-analysis/

PRACTICAL INFORMATION

Social event

Welcome on Sunday (4:00 pm) will be held on the Warocqué building (*UMONS – Campus des Sciences humaines – Warocqué building – Place Warocqué 17, 7000 Mons)*

Coffee-breaks and lunches will be served in the Plisnier room (*UMONS - Campus Plaine de Nimy – Les Grands Amphis - Chemin du Champ de Mars 8, 7000 Mons)*

A guided tour of the Mons center is planned on Monday (6:00 pm) *(VISITMONS - Grand Place 27 – 7000 Mons)*

There are no shops on the campus, but it is not far from the city centre.

The gala dinner (not included in the registration fee) will take place at the Faculty Club on Tuesday 13/09/22 (7:00 pm) *(Maison de la Réunion – 5 rue de la Réunion à 7000 Mons),*

Wi-fi

UMONS-EVENT - welcome-to-umons

Taxi & shuttle

- Navette Connection
  www.navette-connection.be
  0032 497 450 684
- Navettes Devos
  http://navette-devos.be
  0032 485 150 120
- Taxis Milie
  0032 477 937 194
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  http://www.taxispeedmons.taxi/
  0032 474 779 777
- Taxis Top
  http://taxitop.be/site
  0032 495 209 209
- Taxi Willy
  http://taxiswillymons.be
  0032 65 319 808

Location

UMONS – Campus des Sciences humaines – Warocqué building – Place Warocqué 17, 7000 Mons

UMONS - Campus Plaine de Nimy – Les Grands Amphis - Chemin du Champ de Mars 8, 7000 Mons

Google map:
https://www.google.com/maps/d/edit?mid=1cNNEkguyGIMptjzg7itubmdD5XxN8ipg&usp=sharing

Mons

Mons, the administrative centre of the Hainaut province, is located in a dynamic region situated at the heart of Europe, between Amsterdam and Paris on the one hand and Cologne and London on the other.

Its particularly rich and varied heritage contains 4 cultural masterpieces of humanity recognised by the UNESCO World Heritage Committee.

The Belfry in Mons, which was recognized as a World Heritage site in 1999, was built between 1661 and 1672 by Louis Ledoux and Vincent Anthony. While being the only baroque Belfry in Belgium as well as having recognition from UNESCO, it possesses a 49-bell carillon. This symbol, overlooking Mons, offers a splendid view of the rooftops of the city and of the former heaps which trace back to its mining history.

The Neolithic Flint Mines at Spiennes was listed among the UNESCO World Heritage sites in 2000 and is one of the oldest and largest flint extraction sites in Europe. Located 6 km from Mons, this archaeological site covers 100 hectares. You will be able to discover the inventions and pruning techniques developed 6000 years ago by man, which today mark a major step in the cultural and technological development of mankind.

The traditional festival in Mons, known as the 'Doudou', was recognised in 2005 by UNESCO. The 'Doudou', which comprised a Procession, the ascent of the Golden Chariot, and the fight, known as the 'Lumeçon', is a lively tradition celebrating St Waudru, the founder of the city and St George's battle against the Dragon, the symbol of evil.

Grand-Hornu, listed in 2012 by UNESCO as World Heritage of Humanity, is an example of the idealistic architecture characterizing the beginning of the European industrial era. As a symbol of its industrial past, the Grand-Hornu was a former mining complex which included the wells and housing of miners, and all administrative institutions necessary for the running of a community. Today it is a Museum of Contemporary Art (MAC's), in the French-speaking Community of Belgium.

Mons and its surrounding area is also replete with a number of museums and impressive sites such as the Collegiate Church of Saint Waudru, the Town Hall, the Mayor's Garden, the Fine Arts Museum (BAM), the PASS (Park of Scientific Adventures).

In the evening, Mons comes alive with its many bistros and quality restaurants ready to ravish the finest of palates and invite you to discover Belgian cuisine. The warm atmosphere of the bars and cafes in Mons will bring the perfect end to your sensational day.

www.visitmons.be

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NOTES

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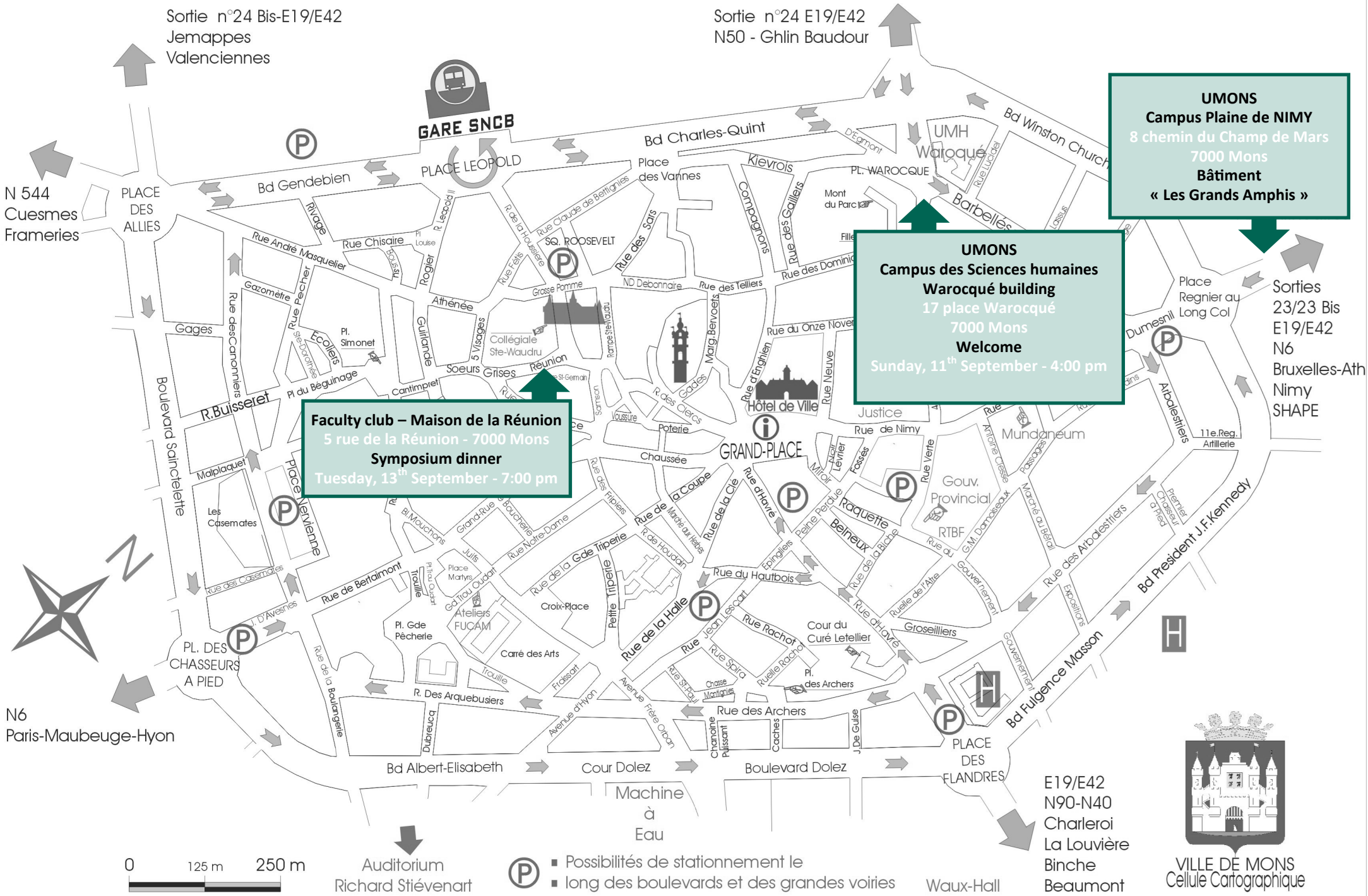
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GARE SNCB
PLACE LEOPOLD
Bd Charles-Quint
Bd Gendebien
Bd Winston Churchill
UMH Waroqué
PL. WAROCQUE
Barbelles
UMONS
Campus Plaine de NIMY
8 chemin du Champ de Mars
7000 Mons
Bâtiment
« Les Grands Amphis »
UMONS
Campus des Sciences humaines
Warocqué building
17 place Warocqué
7000 Mons
Welcome
Sunday, 11th September - 4:00 pm
Faculty club – Maison de la Réunion
5 rue de la Réunion - 7000 Mons
Symposium dinner
Tuesday, 13th September - 7:00 pm
N 544
Cuesmes
Frameries
PLACE DES ALLIES
Sorties
23/23 Bis
E19/E42
N6
Bruxelles-Ath
Nimy
SHAPE
Place Regnier au Long Col
Dumesnil
Rue André Masquelier
Rue Chisaire
Rivage
Rue Pecher
Gazométre
Gages
Rue des Cannonniers
Boulevard Sainctelette
R.Buisseret
Malplaquet
Les Casemates
Rue des Casemates
Place Nervienne
Pl. Simonet
Ecoliers
Ste-Dorothée
Pl du Béguinage
Cantimpret
Soeurs Grises
Réunion
Guirlande
5 Visages
Athénée
Rogier
Pl. Louise
Rue Léopold II
Rue de la Houssière
Rue Claude de Bettignies
SQ. ROOSEVELT
Rue des Sans
Rue des Compagnons
Rue des Gaillets
Rue des Dominicains
Rue des Telliers
ND Debonnaire
Grasse Pomme
Collégiale Ste-Waudru
Rampe Ste-Waudru
Marg.Bervoets
Rue du Onze Novembre
Rue d'Enghien
Rue Neuve
Hôtel de Ville
GRAND-PLACE
Rue de Nimy
Justice
Mundaneum
Rue Verte
Fossés
Mitoir
Petit Lévrier
Antoine Clesse
Passages
Gouv. Provincial
RTBF
G.M. Dandoisseaux
Marché au Bétail
Rue des Arbalestriers
Premier Chasseur à Pied
11e.Reg. Artillerie
Arbalestriers
Chaussée
Poterie
Voussure
Rue de la Clé
Rue d'Havré
Rue de la Coupe
Rue de la Grande Triperie
Petite Triperie
Rue de Houdain
Marché aux Herbes
Rue des Fripiers
Rue du Hautbois
Epinglers
Peine Perdue
Raquette
Belneux
Rue de la Biche
Rue du Gouvernement
Rue d'Havré
Groseilliers
Rue Jean Lescart
Rue Rachot
Cour du Curé Letellier
Ruelle Racho
Rue Sylva
Rue St Paul
Pl. des Archers
Rue des Archers
Chasse Mantignies
Chanoine Puissant
Caches
J. De Guise
Rue de la Halle
Rue Notre-Dame
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Bl. Mouchons
Rue des Bouchers
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Ga. Trou Oudart
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Trouille
Rue de Bertaimont
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Carré des Arts
Frassart
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Dubrueq
Avenue d'Hyon
Avenue Frère Orban
Bd Albert-Elisabeth
Cour Dolez
Boulevard Dolez
Machine à Eau
Auditorium Richard Stiévenart
PLACE DES FLANDRES
Bd Fulgence Masson
Bd President J.F.Kennedy
Waux-Hall
E19/E42
N90-N40
Charleroi
La Louvière
Binche
Beaumont
N6
Paris-Maubeuge-Hyon
N
0
125 m
250 m
Possibilités de stationnement le
long des boulevards et des grandes voiries
VILLE DE MONS
Cellule Cartographique

Gare
Boulevard Charles Quint
Boulevard Gendebien
Rue Rogier
Boulevard W. Churchill
Rue des Barbelés
B
Chemin du Champ de Mars
A
Avenue Victor Maistriau
Boulevard Sainctelette
Sainte Waudru
Rue M. Bervoets
E
Rue des Capucins
Grand Place
Grand 'Rue
Rue de Nimy
Boulevard du Rectorat
Avenue du Tir
Rue de la Gr. Triperie
Rue de Houdain
C
Rue Bertaimont
Rue d'Havré
Avenue de la Halle
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Hôpital Ambroise Parée
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Boulevard Albert-Elisabeth
Boulevard Dolez
Avenue d'Hyon
Rue du Joncquois
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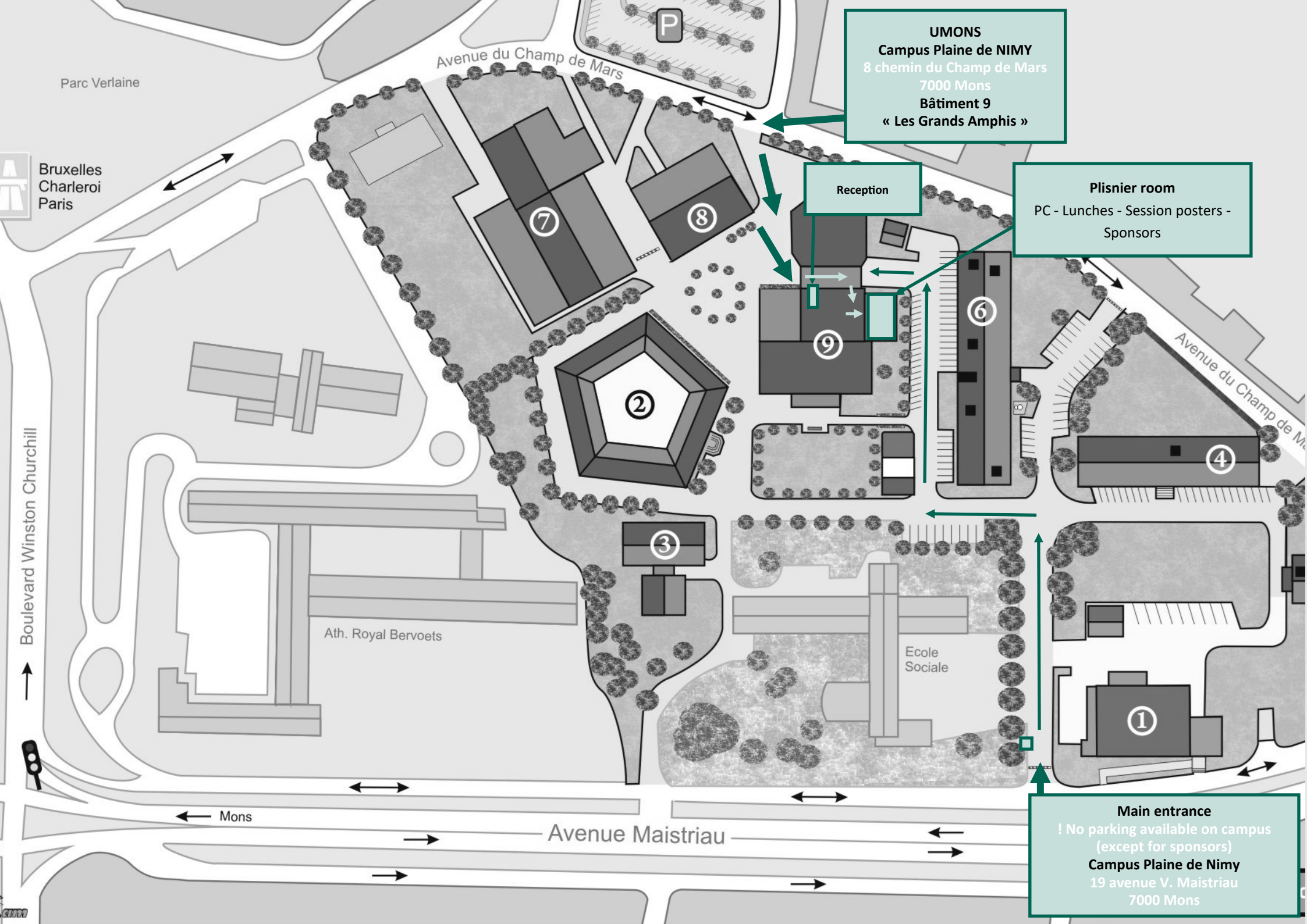
B : Campus Sciences Humaines
C : Campus Polytech
Campus Archi
Cité de la Triperie
D : Campus Polytech
E : Bibliothèque Bervoets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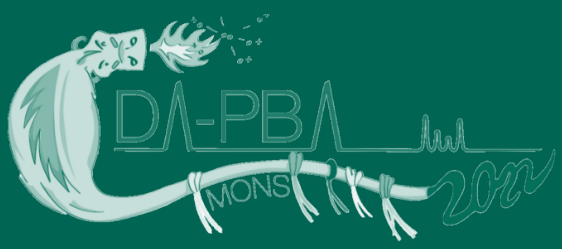
7000 Mons
Bâtiment 9
« Les Grands Amphis »
Reception
Plisnier room
PC - Lunches - Session posters - Sponsors
Parc Verlaine
Avenue du Champ de Mars
Bruxelles
Charleroi
Paris
Boulevard Winston Churchill
Ath. Royal Bervoets
Ecole Sociale
Avenue du Champ de Ma
Mons
Avenue Maistriau
Main entrance
! No parking available on campus (except for sponsors)
Campus Plaine de Nimy
19 avenue V. Maistriau
7000 Mons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2022