

Full Program Ibero2022 - Parallel Session Schedule

Courses

Saturday – December 10th, 2022						
Room	Copacabana	Ipanema	Leblom	Leme	Urca	Vidgal
9:00 a.m.	Course 1 - Fundamentals of Mass Spectrometry	Course 3 - Hands on Metabolomics (GNPS)	Course 4 - Top Down Proteomics	Course 6 - Data science & artificial intelligence application in health science	Course 7 - Proteomic Data Analysis with Patternlab	Course 8 - The Metabolomics Workflow
12:30 p.m.	Lunch					
2:00 p.m.	Course 1 - Fundamentals of Mass Spectrometry	Course 3 - Hands on Metabolomics (GNPS)	Course 4 - Top Down Proteomics	Course 6 - Data science & artificial intelligence application in health science	Course 7 - Proteomic Data Analysis with Patternlab	Course 8 - The Metabolomics Workflow
5:00 p.m.	End of session					

Pre-conference courses:

Sunday – December 11th, 2022	
9:00 a.m.	Data science & artificial intelligence application in health science
12:00 p.m.	Lunch
1:30 p.m.	Users Meeting
5:00 p.m.	End of session
5:30 p.m.	OPENING CEREMONY José Manuel Riveros medal premiation and awards nomination
6:30 p.m.	PLENARY LECTURE: “Mass spectrometry in research of chemical reactions” Jana Roithová, Radboud University - Faculty of Sciences
7:30 p.m.	OPENING DINNER

Monday – December 12th, 2022

9:00 a.m. - PLENARY LECTURE: “PatchC-MS: A method to analyze the proteome of single neurons” - **John R. Yates III, The Scripps Research Institute.** (Gavea Room).

Morning Sessions

GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
M01- MS Analysis of Forensic Scientific Evidence. <i>Chair:</i> Jose L. da Costa (UNICAMP-BRA).	M02- Clinical Research. <i>Chair:</i> Valdemir M. Carvalho (Fleury-BRA).	M03- Metabolomics of Plants and Microorganisms. <i>Chair:</i> Patricia V. Abdelnur (Embrapa-BRA).	M04- Multi-omics. <i>Chair:</i> Alessandra Sussulini (UNICAMP-BRA).	M05- Covid-19. <i>Chair:</i> Andreia M. Porcari (USF-BRA).
Keynote 10:00-10:40 a.m. “Innovative sample preparation techniques and usual/unusual mass spectrometry experiments applied to forensic toxicology” - Tiago F. de Oliveira (UFCSPA-BRA).	Keynote 10:00-10:40 a.m. “Next Phase of Precision Medicine: Application of LC-MS” - Jennifer V. Eyk (Cedars Sinai-USA).	Keynote 10:00-10:40 a.m. “Direct Analyte Probe Nanoextraction (DAPNe) and Nanoparticle Deposition-coupled to MALDI to exact chemical metabolic pathways in True One-Cell (TOC) analysis” - Guido F. Verbeck (University of North Texas-USA).	Keynote 10:00-10:40 a.m. “From associations to insights - Integration of results from multiple omics layers” - Gabi Kastenmuller (Helmholtz Zentrum München-Germany).	Keynote 10:10-10:40 a.m. “Detection of SARS-CoV-2 in nasal swabs through MALDI-MS” - Leonardo S. Santos (UTalca-CHI).
Lecture n° 1. 10:40-11:00 a.m. “Online SPE-LC-HRMS of native urine for screening of doping compounds” - Gustavo R. dos Santos (UFRJ-BRA).	Lecture n° 1. 10:40-11:00 a.m. “More information coming soon” - Michael Merchant (University of Louisville-USA).	Lecture n° 1. 10:40-11:00 a.m. “Mass spectrometry-based metabolomics approaches for comprehensive structural annotation of bioactive metabolites of food and medicinal plants” - Nerilson M. Lima (UFG-BRA).	Lecture n° 1. 10:40-11:00 a.m. “Proteogenomics data integration to reveal the effect of genome variability in head and neck cancer and late stage COPD” - Peter Horvatovich (University of Groningen-NL).	Lecture n° 1. 10:40-11:00 a.m. “SARS-CoV-2 infects brain astrocytes of COVID-19 patients and impairs neuronal viability” - Daniel Martins-de-Souza (Unicamp-BR).
Lecture n° 2. 11:00-11:20 a.m. “LDTD MS/MS in Screening Hair Analysis of Abuse Drugs” - Bruno Sabino (Laboratório Contraprova, RJ-BRA).	Lecture n° 2. 11:00-11:20 a.m. “Identification of COVID-19 prognostic patterns using MALDI-TOF MS and machine learning” - Lucas Lazari (ICB-BRA).	Lecture n° 2. 11:00-11:20 a.m. “Identification of Metabolites in Basil Leaves by Desorption Mass Spectrometry Imaging after Cadmium Contamination” - Rodinei Augusti (UFMG-BRA).	Lecture n° 2. 11:00-11:40 a.m. “Using Ion Mobility Mass Spectrometry and Bioinformatics tools to better understand multiomics analysis” - Mauricio Marques (Agilent).	Lecture n° 2. 11:00-11:20 a.m. “Systems biology analysis of SARS-Cov-2 host interaction” - Livia R. Fernandes (ICB-USP).
Lecture n° 3. 11:20-11:40 a.m. “The advances of Forensic Chemistry on the molecular investigation of new psychoactive substances” - Gabriela V. Costa (NAF / UFRJ-BRA).	Lecture n° 3. 11:20-11:40 a.m. “Enabling ceramides high throughput determination by microsampling, automated sample preparation and multiplexed mass spectrometry acquisitions” – Andrea T. Faccio (Fleury Group-BRA).	Lecture n° 3. 11:20-11:40 a.m. “Insights on palm oil metabolomics under drought stress using mass spectrometry and data analysis” - Jorge C. Rodrigues Neto (Embrapa Agroenergia-BRA).	Lecture n° 3. 11:40-12:00 a.m. “More information coming soon” .	Lecture n° 3. 11:20-11:40 a.m. “Rapid Screening of COVID-19 Disease Directly from Clinical Nasopharyngeal Swabs using the MasSpec Pen Technology” - Andreia Porcari and Livia S. Eberli.
Lecture n° 4. 11:40-12:00 a.m. “Metabolic stability and biotransformation products elucidation of designer drug eutylone by high resolution mass spectrometry (HRMS)” - Alexandre B. de Godoi (UNICAMP-BRA).	Lecture n° 4. 11:40-12:00 a.m. “Ptifalls steroid analysis by LC-MS/MS” – Anna Marques (USP-BRA).	Lecture n° 4. 11:40-12:00 a.m. “Metabolomics of plants and microorganisms applied to (Agro)industrial Biotechnology” - Patricia V. Abdelnur (Embrapa-BRA).		Lecture n° 4. 11:40-12:00 a.m. “Insights into the dysregulated kallikrein-kinin system in patients with severe COVID-19” Bjoern Burckhardt (University of Texas, USA).

Lunch Sessions / Conference Courses	
GAVEA ROOM	VIDGAL ROOM
CC01 - Introduction of High Resolution Mass Spectrometry for Qualitative and Quantitative Analysis (WATERS). Coordinator: Michael Murgu and Viviane Nascimento.	M10 - M10 - Outstanding posters session. <i>Chair:</i> Ana Valéria C. Simionato (UNICAMP - BRA).
	01:00 – 01:20 p.m. Soon
	Lecture nº 1. 01:20 – 01:40 p.m. Soon
	Lecture nº 2. 01:40 – 02:00 p.m. Soon
	Lecture nº 3. 02:00 – 02:20 p.m. Soon
	Lecture nº 4. 02:20 – 02:40 p.m. Soon

Afternoon Sessions				
GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
M06- Human Proteome Project. <i>Chair:</i> Gilberto B. Domont (UFRJ-BRA).	M07- CE-MS. <i>Chair:</i> Ana V. C. Simionato (UNICAMP - BRA).	M08- Clinical Diagnosis. <i>Keynote & Chair:</i> Livia Schiavinato Eberlin (UT-USA).	M09- MS tools in doping & toxicology. <i>Keynote:</i> Henrique Pereira and <i>Chair:</i> Monica C. Padilha (FURJ-BRA).	WM01- Workshop Sportomics. Coordinator: Henrique Marcelo G. Pereira (UFRJ-BRA).
Keynote 03:30-04:10 p.m. “Melanoma” - Gyorgy Marko-Varga (Lund University-Sweden).	Keynote 03:30-04:10 p.m. “Mining the Urine Exposome: New Advances in Assessing Tobacco Smoke Exposure for Global Health” - Philip B. Mckibbin (McMaster University-USA).	Keynote 03:30-04:10 p.m. “Medical Mass Spectrometry: Enabling molecular-based clinical decisions through intuitive mass spectrometry Technologies” - Livia S. Eberlin (UT - USA).	Keynote 03:30-04:10 p.m. “Application of different data-acquisition scan modes in Q Exactive Orbitrap mass spectrometer to analyze substances of interest in doping control” - Carina Anselmo (LBCD, UFRJ-BRA).	Lecture nº 1. 03:30-03:50 p.m. “Mass spectrometry based Metabolomics and Physiological monitoring for Human Performance and Health” - Gustavo Monnerat (Federal University of Rio de Janeiro-BRA).
Lecture nº 1. 04:10-04:30 p.m. “Multi-omics analysis of blood in Parkinson's disease: an exosome journey” - Luciana Pizzatti (UFRJ-Brazil).	Lecture nº 1. 04:10-04:30 p.m. “Profiling nucleotides in low numbers of mammalian cells by sheathless CE-MS in positive ion mode: circumventing corona discharge” - Rawi Ramutar (Leiden University-Netherlands).	Lecture nº 1. 04:10-04:30 p.m. “Mass Spectrometry Imaging Reveals Metabolic Differences between Stable and Vulnerable Atherosclerotic Plaques” - Erin H. Seeley (University of Texas-USA).	Lecture nº 1. 04:10-04:30 p.m. “Volumetric absorptive microsampling DBS device for testosterone esters analysis by GC- EI triple Quad” - Gustavo Cavalcanti (LBCD, UFRJ-BRA).	Lecture nº 2. 03:55 – 04:15 p.m. “A non-invasive approach to monitor exertional rhabdomyolysis during military training using mass spectrometry-based proteomics” - Giuseppe Palmisano (USP-BRA).
Lecture nº 2. 04:30-04:50 p.m. “Blood proteoform atlas and the discovery of biomaker candidates in liver transplanted recipient using proteoform - reaction - monitoring”	Lecture nº 2. 04:30-04:50 p.m. “Mass-spectrometric identification of mediators affecting cardiovascular diseases” - Joachim Jankowski (RWTH Aachen University-Germany).	Lecture nº 2. 04:30- 04:50 p.m. “So Why is Biomarker Validation So Hard in Metabolomics? Exploring Data Quality and Confounding Effects” - Daniel Raftery (UW-USA).	Lecture nº 2. 04:30-04:50 p.m. “Statistical and metrological tools for reliable and valid results in Mass Spectrometry” - Bruno Garrido (INMETRO-BRA).	Lecture nº 3. 4:20 – 4:40 pm “Metabolomics of military sports” - Antônio L. dos S. Lima (Military Engineering Institute-BRA).

(PFRM) ” - Rafael Melani (Northwestern University-USA).				
Lecture nº 3. 04:50-05:10 p.m. “Proteomics-based insights into the COVID-19” - Fabio C. S. Nogueira (UFRJ–BRA).	Lecture nº 3. 04:50-05:10 p.m. “The Pursuit of Single Cell Glycomics by CE-MS” - Guinevere Lageveen-Kammeijer (Leiden University-Netherlands).	Lecture nº 3. 04:50-05:10 p.m. “Clinical Translation of the MasSpec Pen for Real-Time Disease State Diagnosis During Ovarian Cancer Surgeries” - Michael Keating (University of Texas-USA).	Lecture nº 3. 04:50-05:10 p.m. “The role of mass spectrometry to face the nightmare of New Psychoactive Substances” - José L. da Costa (UNICAMP–BRA).	
Lecture nº 4. 05:10-05:30 p.m. “Using neutrophil proteomics to study the systemic inflammatory response” - Wagner Fontes (Universidade de Brasilia–UnB-Brazil).	Lecture nº 4. 05:10-05:30 p.m. “Post-translational modifications (PTMs) in context of common diseases” - Vera Jankowski (RWTH Aachen University-Germany).	Lecture nº 4. 05:10-05:30 p.m. “Probing Molecular Diagnostic Capabilities Within Pediatric and Adult Patients with Brain Cancer using Mass Spectrometry Imaging” - Andréia de M. Porcari (USF–Brazil).	Lecture nº 4. 05:10-05:30 p.m. “Gas chromatography-mass spectrometry method to evaluate intoxication cases by volatile organic compounds at forensic toxicology laboratory” - Kauê O. Chinaglia (UNICAMP–BRA).	

Tuesday – December 13th, 2022

9:00 a.m. – PLENARY LECTURE: “Life of an ion in mass spectrometry: a saga of survival against losses and discrimination” - **Alexander A. Makarov, Thermo Fisher Scientific.** (Gavea Room).

Morning Sessions

GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
T01- Food additives & contaminants. <i>Keynote & Chair:</i> Renato Zanella (UFMS-BRA).	T02- Major Ionization Techniques: Advances and New Applications. <i>Keynote & Chair:</i> Rosa Erra-Balsells (BAU-AR).	T03- MS-imaging instrumentation and applications. <i>Chair:</i> Demian Ifa (York University-CA).	T04- Petroleomics. <i>Chair:</i> Alberto Wisniewski Júnior (UFS-BRA).	T05- Clinical and Pre-Clinical Proteomics. <i>Keynote & Chair:</i> Daniel Martins de Souza (UNICAMP-BRA).
Keynote 10:00-10:40 a.m. “Residues and contaminants in food samples: Recent advances and future trends” - Renato Zanella (UFMS-BRA).	Keynote 10:00-10:40 a.m. “picoPPESI-MS. What is new?” - Rosa Erra-Balsells (University of Buenos Aires-AR).	Keynote 10:00-10:40 a.m. “Improving specificity and sensitivity in imaging MS” - Pierre Chaurand (Université de Montréal-CA).	Keynote 10:00-10:40 a.m. “Advanced mass spectrometry tools for asphaltene characterization” - Boniek G. Vaz (UFG-BRA).	Keynote 10:00-10:40 a.m. “A neuroproteomics-centered approach to understand schizophrenia” - Daniel M. de Souza (UNICAMP-BRA).
Lecture n° 1. 10:40-11:00 a.m. “QuEChERSER is more than QuEChERS in chemical residue analysis” - Sergio H. Monteiro (Instituto Biológico-BRA).	Lecture n° 1. 10:40-11:00 a.m. “Degradation Studies of Reactive Dyes in Soil: A Mass Spectrometry Approach” - Nelson Vinueza (North Carolina State University-USA).	Lecture n° 1. 10:40-11:00 a.m. “Dual Laser and Desorption ElectroSpray Ionization Mass Spectrometry Imaging Reveals a Gradient of Cancer-like Metabolic States in the Vicinity of Cancer Not Seen in Morphometric Margins from Microscopy” - Arash Zarrine-Afsar (University of Toronto-CA).	Lecture n° 1. 10:40-11:00 a.m. “Petroleomics as a tool for the investigation of the mysterious oil spill on the coast of Northeast Brazil in 2019” - Jandyson M. Santos (UFRPE-BRA).	Lecture n° 1. 10:40-11:00 a.m. “Multi-omics approaches to understand <i>Trypanosoma cruzi</i> epigenetics” - Julia Cunha (Butantan-BRA).
Lecture n° 2. 11:00-11:20 a.m. “Unveiling new biomarkers for the identification of steroid treatment in cattle using UHPLC-Q-Orbitrap-HRMS: from non-targeted to targeted” - Diego G. Rocha (LFDA-MG-BRA).	Lecture n° 2. 11:00-11:20 a.m. “Understanding nano-bio interactions through the biomolecular corona: the role of mass spectrometry” - Andrea Armirotti (Istituto Italiano di Tecnologia-IT).	Lecture n° 2. 11:00-11:20 a.m. “Alterations in lipid metabolism associated with anti-tumor immune response to PD-1 blockade uncovered by desorption electrospray ionization mass spectrometry” - Mary King (University of Texas-USA).	Lecture n° 2. 11:00-11:20 a.m. “Ultra-high-resolution mass spectrometry applied to organic geochemical investigation of petroleum source rocks: study case of Irati Black Shales” - Laercio L. Martins (UFC-BRA).	Lecture n° 2. 11:00-11:20 a.m. “Proteomic Signatures Classify Ovarian Cancer Subtypes” - Vitor M. Faça (USP-BRA).
Lecture n° 3. 11:20-11:40 a.m. “Express validation: statistical approach for the validation of multiresidue methods for pesticides in food” - Nélio Fleury Filho (LFDA/GO-BRA).	Lecture n° 3. 11:20-11:40 a.m. “Mass spectrometry in environmental studies in the Russian Arctic” - Albert Lebedev (Lomonosov Moscow State University-RU).	Lecture n° 3. 11:20 – 11:40 a.m. “MALDI-MSI of brain lipids in the human and rodent brain” - Shawn Whitehead (Western University-CAN).	Lecture n° 3. 11:20-11:40 a.m. “Stables Isotopes Applied to Petroleum Organic Geochemistry” - Alexandre A. Ferreira (Petrobrás-BRA).	Lecture n° 3. 11:20-11:40 a.m. “Proteomic analysis of iPSC-based human neural cell models in Psychedelic Research” - Livia Goto Silva (D’OR Institute for Research and Education).
Lecture n° 4. 11:40-12:00 a.m. “A vortex-assisted MSPD method for the extraction of Polycyclic Aromatic Hydrocarbons from shrimp and determination by GC-MS/MS” - Jean Lucas de Oliveira Arias (FURG-BRA).	Lecture n° 4. 11:40-12:00 a.m. “Multicomponent Reactions Mechanisms Investigation: Before and After ESI-MS/(MS)” - Brenno A. D. Neto (IQ-UnB – BRA).	Lecture n° 4. 11:40 – 12:00 a.m. “Comparison and Complementarity of MALDI and DESI for molecular Imaging” - Roy Martin (Waters Corporation).	Lecture n° 4. 11:40-12:00 a.m. “More information coming soon”.	Lecture n° 4. 11:40-12:00 a.m. “More information coming soon” - Juliana Cassoli.

Lunch Sessions / Conference Courses

GAVEA ROOM

CC01 - Introduction of High Resolution Mass Spectrometry for Qualitative and Quantitative Analysis (WATERS).

Coordinator: Michael Murgu and Viviane Nascimento.

Afternoon Sessions				
GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
T06- Safe & Valuable Food. <i>Chair:</i> Marcos A. Pudenzi (Shimadzu-BRA).	T07- Translational Research and Data Integration. <i>Chair:</i> Aline Martins (UCEU-ESP).	T08- Biofuels. <i>Chair:</i> Debora de A. Azevedo (UFRJ-BRA).	T09- Metabolomics/Lipidomics. <i>Chair:</i> Alexandra Sawaya (UNICAMP-BRA).	WT01- Workshop: Application of Mass Spectrometry in Chemical Ecology. Coordinator: Norberto Peporine Lopes (BRA).
Keynote 03:30 – 04:10 p.m. “ New approaches to avoid matrix effects in pesticide residues and contaminants during GC-MS/MS analysis ” - Horacio Heinzen (UdelaR-Uruguay).	Keynote 03:30-04:10 p.m. “ Metabolomics Analysis of the Effects of Exogenous Ketones on Cancer Cachexia ” - Thomas O’Connel (Indiana University School of Medicine-USA).	Keynote 03:30-04:10 p.m. “ Mass Spectrometry Studies in Biorefinery Pretreatment Stream ” - Nelson Vinueza (North Carolina State University–USA).	Keynote 03:30-04:10 p.m. “ Mass spectrometry based quantitative characterization of human plasma lipidome ” - Michal Holčápek (UP-CR).	Lecture 1. 03:30- 04:10 p.m. “ Application of Mass Spectrometry in Frogs Chemical Ecology ” - Andres E. Brunetti (IBS, UNaM-CONICET).
Lecture nº 1. 04:10-04:30 p.m. “ Mass spectrometry strategies applied for marine biotoxins monitoring and Haff disease investigation ” - Cristian R. Kleemann (LFDA, RS–BRA).	Lecture nº 1. 04:10-04:30 p.m. “ Host adaptations during chronic infection: a metabolomics perspective ” - Oleg Mayboroda (Center for Proteomics and Metabolomics/Leiden University Medical).	Lecture nº 1. 04:10-04:30 p.m. “ Strategies for analyzis of bio-oils from different biomass and thermal conversion processes by ESI (±) HRMS ” - Raquel V. S. da Silva (UFRJ-BRA).	Lecture nº 1. 04:10-04:30 p.m. “ Unraveling the molecular bases of bipolar disorder and depression using metabolomics ” - Alessandra Sussulini (Unicamp-BRA).	Lecture 2. 4:10-4:40 pm “ Mapping metabolites and microbes on ascidians to investigate symbiotic relationships ” - Anelize Bauermeister (USP-BRA).
Lecture nº 2. 04:30-04:50 p.m. “ More information coming soon ” - Djalma Santos (Shimadzu Brasil).	Lecture nº 2. 04:30-04:50 p.m. “ More information coming soon ”.	Lecture nº 2. 04:30-04:50 p.m. “ Separation Speed concepts applied to biofuel analysis ” - Carin V. Muhlen (UERJ-BRA).	Lecture nº 2. 04:30-04:50 p.m. “ Untargeted metabolomics applied to assess the impact of processing and functional potential of cereals ” - Mariana S. L. Ferreira (UNIRIO–BRA).	Lecture 3. 4:40-5:10 pm “ Coffee post-harvest and MS contributions ” - Claudia M. Rezende (IQ, IFRJ-BRA).

Lecture nº 3. 04:50-05:10 p.m. “The LC-MS/MS and GC-MS/MS techniques employed to ensure food safety” - Diogo Silva (Eurofins–BRA).	Lecture nº 3. 04:50-05:10 p.m. “A different vision of translational research in biomarker discovery - Case Study for Parkinson’s disease potential biomarkers” - Bruno Manadas (University of Coimbra-PT).	Lecture nº 3. 04:50-05:10 p.m. “Influence of acquisition rate on performance of fast comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry for coconut fiber bio-oil characterization” - Tiago Schena (LECO–BRA).	Lecture nº 3. 04:50-05:10 p.m. “The lipidomic contribution to some health studies” - Andréa R. Chaves (UFG-BRA).	Discussion 5:10-5:30 pm
Lecture nº 4. 05:10-05:30 p.m. “Analytical difficulties to follow the evolution of quantification limits” - Roni Vicente Reche (ALS Campinas-BRA).	Lecture nº 4. 05:10-05:30 p.m. “Single Cell Proteomics in Autism Spectrum Disorders: a concept for neurodevelopmental pathologies” - Aline Martins (The Scripps Research Institute).	Lecture nº 4. 05:10-05:30 p.m. “More information coming soon” .	Lecture nº 4. 05:10-05:30 p.m. “Predictive metabolomics of multiple Atacama plant species unveils a core set of generic metabolites for extreme climate resilience” - Pierre Petriacq (Bordeaux Metabolome–FRA).	

Wednesday – December 14th, 2022

9:00 a.m. – PLENARY LECTURE: “The Human Proteome Project” – **Charles Pineau, Research Director Inserm - France.** (Gavea Room).

Morning Sessions

GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
W01- Mass Spectrometry evolution and recent applications. Coordinator: Maciej Bromirski.	W02- Qualitative Proteomics. <i>Chair:</i> Alexandre K. Tashima (UNIFESP-BRA).	W03- Natural Products. <i>Chair:</i> Christopher Thibodeaux (McGill-USA).	W04- Ion Mobility Mass Spectrometry: New Developments and Applications. <i>Chair:</i> Roy Martin KN.	W05- BrProt Young Investigator. <i>Chair:</i> Magno R. Junqueira and Marcella N. de M. Braga.
Lecture n° 1. 10:00-10:40 a.m. “ MS evolution in TSF and recent applications ” - Maciej Bromirski.	Keynote 10:00-10:40 a.m. “ The Spatial Proteome of the Cell ” - Kathryn Lilley (Cambridge University – UK).	Keynote 10:00-10:40 a.m. “ More information coming soon ”.	Keynote 10:00-10:40 a.m. “ Increasing the Information Content of Ion Mobility - Mass Spectrometry Experiments ” - Matt Bush.	Keynote 10:00-10:40 a.m. “ More information coming soon ”.
Lecture n° 2. 10:40-11:00 a.m. “ Compound Discoverer ” - Andrea Tedesco Faccio.	Lecture n° 1. 10:40-11:00 a.m. “ Wiring the proteome of multiple sites gives insights into head and neck cancer biology ” - Adriana P. Lemes (LNBio – Brazil).	Lecture n° 1. 10:40-11:00 a.m. “ Tandem Ion mobility, Mass Spectrometry and Infrared/Ultraviolet Spectroscopy on Sphingonodin I: Lasso vs. Branched-cyclic Topoisomers ” - Francisco Fernandez-Lima (University of Central Florida).	Keynote 10:40-11:20 a.m. “ Cyclic ion mobility-mass spectrometry: a novel platform for the discovery of unknown forever chemicals ” - Karl Jobst.	Lecture n° 1. 10:40-11:00 a.m. “ More information coming soon ”.
Lecture n° 3. 11:00-11:20 a.m. “ Characterization of Monoclonal Antibodies Using the Orbitrap Platform - BioPharma Finder ” - Dra. Kelly Cavalcanti Machado.	Lecture n° 2. 11:00-11:20 a.m. “ Snake venom glycoproteomics and N-terminomics ” - Solange Serrano (Instituto Butantan - BRA).	Lecture n° 2. 11:00-11:20 a.m. “ Building Natural Products with Stable Isotope Labeled Substrate to Bridge Mass Spectra to Biosynthetic Gene Clusters ” - Catherine McCaughey (UC Santa Cruz - USA).	Lecture n° 1. 11:20 – 11:40 am “ Comparative proteomics, using HDMSE acquisition, as an approach to study the in vitro development of plants ” - Vanildo Silveira (UENF - BRA).	Lecture n° 2. 11:00-11:20 a.m. “ More information coming soon ”.
Lecture n° 4. 11:20-11:40 a.m. “ Bring your lab up to speed: Find out what LDTD is and how to get the best out of it ” - Pierre Picard.	Lecture n° 3. 11:20-11:40 a.m. “ Deep proteopeptidomics of Bothrops jararaca venom paves the way for bioprospection ” - Richard H. Valente (Fiocruz, RJ – BRA).	Lecture n° 3. 11:20 – 11:40 a.m. “ Multiplexed screening of thousands of natural products for protein binding in native mass spectrometry ” - William A. Donald (UNSW-Sidney - AU).	Lecture n° 2. 11:40 – 12:00 am “ More information coming soon ” - Bergona Lopez (Bruker).	Lecture n° 3. 11:20-11:40 a.m. “ More information coming soon ”.
	Lecture n° 4. 11:40-12:00 a.m. “ Contributions to improve the bothropic antivenom using proteomics and affinity chromatography ” - Alexandre K. Tashima (UNIFESP – BRA).	Lecture n° 4. 11:40 – 12:00 a.m. “ Exploring the Dynamic Structural Biology of Lanthipeptide Synthetases with Mass Spectrometry ” - Christopher Thibodeaux (McGill – USA).		Lecture n° 4. 11:40-12:00 a.m. “ More information coming soon ”.

Afternoon Sessions				
GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
W06- Nico Nibbering Student Travel Awards. <i>Chair:</i> Rosa Erra Balsells.	W07- Proteomics in Brazil. <i>Chair:</i> Marcelo V. de Sousa (IB-UnB).	W08- Female STEM in Mass Spectrometry Round Table. – The STEM gap: Why so few? Why so far? <i>Chair:</i> Aline M. A. Martins.	W09- FTMS and innovative methods for (bio)analysis. <i>Chair:</i> Fábio C. S. Nogueira	WW01- Workshop: Peer Production of Hardware and Software (Non-commercial MS Prototypes and Software). Coordinator: Robert Winkler.
Premiation Ceremony 03:30 – 04:00 p.m. Nico Nibbering award.	Keynote 03:30-04:10 p.m. “Proteomics of <i>Trypanosoma cruzi</i> Cell Division” - Carlos André O. Ricart (UnB - BRA).	Basic Science 03:30-04:10 p.m. Débora Azevedo (UFRJ-BRA).	Keynote 03:30-04:10 p.m. “FTMS and Innovative Methods for (bio)Analysis” - Alexander Makarov (Thermo Fisher).	Lecture n° 1. 3:30-3:50 p.m. “Concept of Peer Production, Open Science and Licenses” - Robert Winkler.
Lecture n° 1. 04:00-04:15 p.m. “Photoreduction And Photophysical Characterization Of Hydroxy-Nitrobenzoic Acids As Potential Uv Maldi Matrices Maldi” - Oscar Enrique Silva Rodriguez (Argentina).	Lecture n° 1. 04:10-04:30 p.m. “The study of reproductive biology and health in humans and animal models: a proteomics approach” - Arlindo A. Araripe Moura (UFC – BRA).	Translational Research 04:10-04:30 p.m. Jeniffer Van Eyk (Cesar Sinai Hospital, Los Angeles-USA).	Lecture n° 1. 04:10-04:30 p.m. “More information Soon” .	Lecture n° 2. 3:50-4:15 p.m. “Real-Time Detection of Volatile Organic Compounds (VOCs) with the Modular Biological Mass Spectrometer (MoBiMS) and the Citizen Science Platform Meteomex” - Raul Alcalde-Vázquez (Cinvestav-UGA Langebio).
Lecture n° 2. 04:15-04:30 p.m. “Chemical profiles of medicinal herbs in yerba mate (<i>Ilex paraguariensis</i>)” - Victoria Panzl (Uruguay).	Lecture n° 2. 04:30-04:50 p.m. “Reading out molecular phenotypes by mass spectrometry-based neuroproteomics” - Magno Rodrigues Junqueira (UFRJ – BRA).	Instrumentation 04:30-04:50 p.m. Julia Laskin (Purdue University-USA).	Lecture n° 2. 04:30-04:50 p.m. “More information Soon” .	Lecture n° 3. 4:15-4:30 p.m. “3D-Printed Devices for Mass Spectrometry and Ion Mobility Spectrometry” - Robert Winkler.
Lecture n° 3. 04:30-04:45 p.m. “Proteomic and pharmacological comparison between <i>Crotalus durissus cumanensis</i> and <i>Crotalus vegrandis</i> venoms reveals for the first time FXa-like activity in rattlesnake venom” - Betzabeth Pereira (Venezuela).	Lecture n° 3. 04:50-05:10 p.m. Oral Presentation.	Application 04:50-05:10 p.m. Livia Eberlin (Baylor College-USA).	Lecture n° 3. 04:50-05:10 p.m. “More information Soon” .	Discussion 4:30-5:30 p.m. Discussion and contribution of congress participants.
Lecture n° 4. 04:45-05:00 p.m. “<i>Solanum crinitum</i> Lam. (Solanaceae): comprehensive chemical characterization of alkaloids from unripe and ripe fruits” - Marcos Venicius Nunes (Brazil).	Lecture n° 4. 05:10-05:30 p.m. “DiagnoMass: Pinpointing biological relevant and unidentified mass spectra” - Marlon Mariano dos Santos (Fiocruz – BRA).	Basic Science 05:10-05:30 p.m. Elena Stashenko (Universidad Industrial de Santander, Bucaramanga-CO).	Lecture n° 4. 05:10-05:30 p.m. “More information Soon” .	
Lecture n° 5. 05:00-05:15 p.m. “Assessment of petroleum compounds in sea turtles from the coast of the state of Ceará, Brazil” - Ana Carolina Santos Luz (Brazil).				

Lecture n°605:15 – 05:30 p.m.

Real-time monitoring of volatile compounds using the Modular Biological Mass Spectrometer (MoBiMS)

Raúl Alcalde-Vázquez1 (Mexico).

Lecture n°605:15 – 05:30 p.m. Real-time monitoring of volatile compounds using the Modular Biological Mass Spectrometer (MoBiMS) Raúl Alcalde-Vázquez1 (Mexico).				
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Thursday – December 15th, 2022

9:00 a.m. – PLENARY LECTURE: “Ambient Mass Spectrometry Imaging: Recent Developments and Opportunities” – **Julia Laskin - Purdue University – USA.** (Gavea Room).

Morning Sessions

GAVEA ROOM	VIDGAL ROOM	COPACABAN ROOM	LEME ROOM	IPANEMA ROOM
Th01- Environmental MS. scar Vega (ISTI-BRA).	Th02- MS Analysis and Hyphenated Techniques. <i>Chair:</i> Clécio Klitzke (GCTOF Solução Analítica-BRA).	Th03- Ambient MS and New ionization Methods. <i>Chair:</i> Rodinei Augusti (FUMG - BRA)	Th04- Bioinformatics and it is applications. <i>Chair:</i> Paulo Costa Carvalho (FIOCRUZ-BRA).	Th05- Post-translational modifications. <i>Chair:</i> Giuseppe Palmisano (USP - BRA)
Keynote 10:00-10:40 a.m. “ Environment, plants, insects, and intoxications distinguished by mass spectrometry ” - Elena Stashenko (UIS-COL).	Keynote 10:00-10:40 a.m. “ New trends in analyses of petroleum and its derivatives using power separation tools ” - Dayane Magalhães Coutinho (UFRJ-BRA).	Keynote 10:00-10:40 a.m. “ Elucidating the Distribution of Plant Metabolites from Native Tissues with Laser Desorption Low-Temperature Plasma Mass Spectrometry Imaging ” - Robert Winkler (Cinvestav-MEX).	Keynote 10:00-10:40 a.m. “ More information Soon ” - Milan A. Clasen (FIOCRUZ-BRA).	Keynote 10:00-10:40 a.m. “ Is glycosylation the link between diabetes and cancer? ” - Adriane Todeschini (UFRJ-BRA).
Lecture nº 1. 10:40-11:00 a.m. “ Chiral composition over the Amazon rainforest by TD-GC/GC-TOF/MS ” - Caroline Ostermann (University of California-Irvine - USA).	Lecture nº 1. 10:40-11:00 a.m. “ Influence of analytical conditions on performance of Orbitrap HRMS for petroleum polar compounds characterization ” - Thamara A. Barra (UFRJ-BRA).	Lecture nº 1. 10:40-11:00 a.m. “ A Deeper Understanding of Solvent Based Ambient Ionization Mass Spectrometry: Are Molecular Profiles Dictated by Extraction Mechanisms? ” - Monica Lin (UT Austin-USA).	Lecture nº 1. 10:40 – 11:00 a.m. “ More information Soon ” - Michel Batista (FIOCRUZ-BRA).	Lecture nº 1. 10:40-11:00 a.m. “ Protein arginylation: a new key player in SARS-CoV-2 infection ” - Janaina Macedo da Silva (ICB-USP-BRA).
Lecture nº 2. 11:00-11:20 a.m. “ Sugarcane beyond the sweetness - one application in green chemistry ” - Daniel T. Lebre (CEMSALAB-SP-BRA).	Lecture nº 2. 11:00-11:20 a.m. “ UHRMS as a new layer for crude oil identification in forensic studies ” - Jhonattas de C. Carregosa (UFS-BRA)	Lecture nº 2. 11:00-11:20 a.m. “ Helium Assisted Desorption and Spray Ionization ” - Andre Venter (Western Michigan University-USA).	Lecture nº 2. 11:00-11:20 a.m. “ More information Soon ” - Pedro Henrique Godoy Sanches (USF-BRA).	Lecture nº 2. 11:00-11:20 a.m. “ PTMs: A Missing Piece for Schizophrenia Studies ” - Victor Corassolla Carregari (UNICAMP-BRA).
Lecture nº 3. 11:20-11:40 a.m. “ Elemental analysis of soil from the Amazon Tall Tower Observatory site ” - Bruno Tappiz (IPEN-CNEN-BRA).	Lecture nº 3. 11:20-11:40 a.m. “ Machine learning in the prediction of total acid number and basic nitrogen in petroleum using ESI(±)-ORBITRAP HRMS ” - Gutierri Salgueiro (UFRJ-BRA).	Lecture nº 3. 11:20 – 11:40 a.m. “ More information Soon ” - Wanderson Romão.	Lecture nº 3. 11:20-11:40 a.m. “ Bioinformatics for non-bioinformatics: different strategies for evaluating proteomics data in COVID-19 ” - Emily Caroline dos Santos (FIOCRUZ-BRA).	Lecture nº 3. 11:20-11:40 a.m. “ Congenital Zika Syndrome: a post-translational approach ” - Patricia Sosa Acosta.
Lecture nº 4. 11:40-12:00 a.m. “ Determination of Lithium isotopic ratio by ICP-MS from Espodumenium ” - Juliana Ikebe Otomo.	Lecture nº 4. 11:40-12:00 a.m. “ Mass spectrometry applied in the screening of new catalyzed reactions ” - Fabiane M. Nachtigall (Universidad Autónoma de Chile-CHI).	Lecture nº 4. 11:40 – 12:00 a.m. “ A fast and novel urine toxicology screen using DART-MSMS ” - François Espourteille (Bruker Daltonics)	Lecture nº 4. 11:40-12:00 a.m. “ More information Soon ” - Ana Gisele da Costa Neves Ferreira (FIOCRUZ – BRA).	Lecture nº 4. 11:40-12:00 a.m. “ Using an overseen protein post-translational modification to study cardiovascular diseases ” - Thiago Verano-Braga (UFMG-BRA).
12:30 a.m. - Closing Ceremony : "Porfessor Lidia Gall - 50 years in Russian mass spectrometry" - Nikolay R.Gall (RUS) / Best poster award ceremony (Gavea Room).				