

Tuesday – 12/13/2022 from 1:00 to 3:00 p.m.

| Code | Title | Authors |
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| 4DNK | Limitations of Ion Mobility Spectrometry-Mass Spectrometry for the quantification of architectural isomeric polymers: a case study | Romain Liénard , Quentin Duez , Scott M Grayson , Pascal Gerbaux , Olivier Coulembier e Julien De Winter |
| 4DP2 | Metabolic effect of drought stress on Elaeis guineensis leaves using UHPLC-MS and multivariate analysis | Jorge Candido Rodrigues Neto , Letícia Rios Vieira , Tallyta Santos Teixeira , José Antônio de Aquino Ribeiro , Manoel Teixeira Souza Júnior e Patricia Verardi Abdelnur |
| 4DPW | Multivariate optimization of Disposable Pipette Extraction (DPX) procedure for drugs of abuse analysis in human breast milk | Wilson José Ramos Santos Junior , Bruno Ruiz Brandão da Costa e Bruno Spinosa De Martinis |
| 4DQG | Analysis of fungal co-culture metabolites using both classic and imprinting Mass Spectrometry Imaging | Tallyta Santos Teixeira , Jorge Candido Rodrigues Neto , Aparecido Almeida Conceição , Patrícia Pinto Kalil Gonçalves Costa , Félix Gonçalves de Siqueira e Patricia Verardi Abdelnur |
| 4DQH | Dried urine on filter paper as an alternative sample for Pompe disease screening by LC-HRMS/MS | Hygor Marcos Ribeiro de Souza , Flávia Ferreira de Carvalho Marques , Fernanda Bertão Scalco e Rafael Garrett |
| 4DQV | Classification of Brazilian pre-salt crude oils using time of flight mass spectrometry | Daniela França , Dayane Magalhães Coutinho , Vinicius Barreto Pereira e Debora de Almeida Azevedo |
| 4DR4 | LC-Orbitrap MS targeted analysis of urinary glycosaminoglycans combined with untargeted metabolomics for the investigation of mucopolysaccharidoses | Clarisse Lacerda Torres , Fernanda Bertão Scalco , Maria Lúcia Costa Oliveira e Rafael Garrett |
| 4DRC | Halogenated POPs and relative emerging contaminants non-targeted quantitative screening by GC-APCI-HRMS Trapped Ion Mobility | fan yang , Yann Aminot , Catherine Munsch e Hugues Preudhomme |

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| 4DRM | Ultrasound-assisted microextractive and analytical technique in the investigation of benzodiazepines in post-mortem blood Ultrasound-assisted microextractive and analytical technique in the investigation of benzodiazepines in post-mortem blood | Cecília de Andrade Bhering , Ananda da Silva Antonio , Diego Rissi Carvalhosa , Francisco Radler Aquino Neto e Gabriela Vanini Costa |
| 4DSH | Proteomic profiling of Gestational Diabetic-induced Myopathy in rectus abdominis muscle of gestational diabetes mellitus women with pregnancy-specific urinary incontinence | Fernanda Cristina Bergamo Alves , Rafael Guilen de OLiveira , Carolina Neiva Frota de Carvalho , David Rafael Abreu Reys , Gabriela Garcia , Angelica Mercia Pascon Barbosa e Marilza Vieira Cunha Rudge |
| 4DSP | Multiomics Pipeline Reveals Alpha-Ketoglutarate as a Countermeasure for Organophosphate Poisoning | Phillip M Mach |
| 4DSW | Vortex-assisted liquid-liquid microextraction combined with liquid chromatography tandem mass spectrometry for simultaneous determination of cardiovascular drugs in human plasma | Mateus Araújo Castro e Souza , Naialy Fernandes Araújo Reis , Isabella Cristina Plácido de Oliveira Pacheco , Maria Auxiliadora Parreiras Martins , Maria Beatriz de Abreu Glória , Gerson Antônio Pianetti e Christian Fernandes |
| 4DSX | Can Mass Spectrometry solve authentication issues in modern art? | María Florencia Castellá , Marta Perez Estebanez , Joy Mazurek , Tom Learner , Jorge Fernandez Niello , Marcos Tascon e Fernando Marte |
| 4DSY | Cocaine and its metabolites LC/MS analysis in zebrafish exposed to the alkaloid | Sebastian Ortiz Blanco , Andrés Fernando González Suárez , Jairo René Martínez e Elena E. Stashenko |
| 4DSZ | LC/MS chemical characterization of the hydroethanolic extracts obtained from Scutellaria (Lamiaceae) plants and study of their antioxidant activity | Silvia Marcela Porras Triana , Lady Johanna Sierra , Elena E. Stashenko e Jairo René Martínez |
| 4DT4 | GC/MS and LC/MS study of the chemical composition of essentials oils and extracts isolated from Hyptis colombiana (Lamiaceae). | Sheila Bridget Beltrán Perez , Lady Johanna Sierra , Jairo René Martínez e Elena E. Stashenko |

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| 4DT6 | GC/MS and LC/MS study of essential oil and extracts isolated from geranium (<i>Pelargonium graveolens</i>) | Angie Katherine Romero Hernández , Lady Johanna Sierra , Elena E. Stashenko e Jairo René Martínez |
| 4DTB | GC/MS study of <i>Steiractinia aspera</i> essential oils obtained from different crops in Santander (Colombia) by steam distillation | Valeria Bellón Monsalve , Juan Camilo Henríquez Sanabria , Johanna Catalina Rosero Rosero , Elena E. Stashenko e Jairo René Martínez |
| 4DTC | LC/MS study of <i>Lippia organoides</i> (Verbenaceae) supercritical CO ₂ extract and its fractions, obtained from post-distilled plant material | Silvia Juliana Muñoz , Felix Camilo Muñoz , Jairo René Martínez e Elena E. Stashenko |
| 4DTG | LC/MS analysis of phenolic compounds from <i>Ocimum campechianum</i> (Lamiaceae) extracts | Juan Josafat Tarazona Fiallo , Cristian A. Oliveros , Jairo Rene Martinez e Elena E. Stashenko |
| 4DTJ | LC/MS study of ergoline alkaloids isolated from <i>Argyrea nervosa</i> (Convolvulaceae) seeds | Hector Duvan Uribe Vargas |
| 4DTK | Chromatographic and mass spectrometric characterization of <i>Lippia organoides</i> (Verbenaceae) extract obtained with supercritical CO ₂ | Maria Fernanda Estupiñan Garcia , Felix Camilo Muñoz , Anderson Julian Arias Velandia , Jairo René Martínez e Elena E. Stashenko |
| 4DTM | LC/MS study of <i>Solanum crotonifolium</i> (Solanaceae) extracts | Laura Valentina Duarte Velandia , Jesica Julieth Mejía Medina , Jairo René Martínez e Elena E. Stashenko |
| 4DTP | GC/MS analysis of the essential oils and their fractions, obtained from <i>Turnera diffusa</i> grown in Santander Colombia | Cesar Alberto Garcia Quintero , Lady Johanna Sierra , Elena E. Stashenko e Jairo René Martínez |
| 4DTQ | Spatial detection of cyclic dimeric guanosine monophosphate in bacterial biofilm colonies using imaging mass spectrometry | Catherine S. McCaughey , Michael A. Trebino , Allyson McAtamney , Fitnat H. Yildiz e Laura M. Sanchez |
| 4DTS | Comparison of two azobenzene-based amino acid derivatization reagents for LC-MS/MS analysis in positive and negative ESI modes | Ernesto de Jesus Zapata Flores , Nguyen Kim Ngan Bui , Sigrid Selberg , Koit Herodes e Ivo Leito |

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| 4DV2 | A multi-omics approach for the study of bipolar disorder | Henrique Caracho Ribeiro , Partho Sen , Alex Dickens , Elisa Castañeda Santa Cruz , Matej Orešič e Alessandra Sussulini |
| 4DV6 | Tissue Lipidomic Profile In Adenocarcinoma Of The Rectal Before And After Neoadjuvant Therapy Using Mass Spectrometry Imaging | Pedro Henrique Godoy Sanches , Caroline Fernanda Alves Gatinoni , Salvador Sanchez Vinces , Álex Aparecido Rosini Silva , Caroline Pais de Carvalho , Marcos Nogueira Eberlin , Carlos Augusto Real Martinez , Andreia de Melo Porcari e Patrícia de Oliveira Carvalho |
| 4DVA | Metabolomic and Transcriptomic integrated analysis of Wilms Tumour | Pedro Henrique Godoy Sanches , Bruna Maria de Sá Pereira , Álex Aparecido Rosini Silva , Danilo Cardoso de Oliveira , Beatriz de Camargo , Mariana Maschietto e Andreia de Melo Porcari |
| 4DVF | Biological Activity and Chemical Profiling of Streptomyce ssp. CMAA 1738acting on the biocontrol of the wheat pathogen Bipolaris sorokiana | Helio Danilo Quevedo , Caroline Sayuri Nishisaka , Célio Fernando Figueiredo Angolini e Rodrigo Mendes |
| 4DVK | Identification of volatile compounds by gas chromatography-mass spectrometry (GC-MS) in brown propolis. | Clara Andrezza Crisóstomo Bezerra Costa , João Victor Laurindo dos Santos , Orlando Francisco da Silva Moura , Jeniffer Mclaine Duarte Freitas , Alan John Duarte de Freitas e Johnnatan Duarte de Freitas |
| 4DVP | Shoot development in vitrois affected by alterations in hormones and protein profiles in Cedrela fissilis Vell. (Meliaceae) during long-term subculture | Tadeu dos Reis de Oliveira , Yrexam Rodrigues de Souza Ribeiro , Laíse Trugilio Moreira Marinho , Victor Paulo Mesquita Aragão , Leandro Francisco de Oliveira , Eny Iochevet Segal Floh , Lucas Rodrigues Xavier , Vanildo Silveira , Damián Balfagón , Aurelio Gómez-Cadenas e Claudete Santa-Catarina |

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| 4DVR | Chemical characterization by LC-MS and evaluation of the antiarthritic activity of herbal medicine with the extract of leaves of <i>Echinodorus macrophyllus</i> | Marina Pereira Rocha , Laura Paulino Maia Silva , Brenda Resende , Peter Silva Rocha , Katia Michelle Freitas , Juliana Divina Almeida Raposo , Flavio Almeida Amaral , Mauro Teixeira , Priscilla Rodrigues Valadares Campana e Fernão Castro Braga |
| 4DWB | Concentration Changes of Sulfatides and Sphingomyelins in Body Fluids Reflect Cancer Progression of Renal Cell Carcinoma Patients | Robert Jirasko , Jakub Idkowiak , Denise Wolrab , Aleš Kvasnička , David Friedecký , Krzysztof Polański , Hana Študentová , Vladimír Študent , Bohuslav Melichar e Michal Holcapek |
| 4DWB | Novel Principle of Designing Isotope Ratio Magnet Mass-spectrometers. | Nikolay Gall , IvanGromov , Nikolay Blashenkov , Artem Diachenko , Olga Bekiaeva , Lidia Gall e Viacheslav Sachenko |
| 4DWG | Oral squamous cell lipid differentiation in gingiva tissue by mass spectrometry | Ricardo Alves Bernardo , Charles Ivo de Oliveira Júnior , Jussara Valente Roque , Nadia do Lago Costa , Virgilio Moreira Roriz , Christian Janfelt , Carlos Arterio Sorgi , Boniek Gontijo Vaz e Andrea Rodrigues Chaves |
| 4DWM | Sectioning protocol for molecular mapping by MALDI-IMS of açai (<i>Euterpe oleracea</i> Mart.) seed | Gabriel Rocha Martins , Felipe Lopes Brum , Ronaldo Mohana-Borges e Ayla Sant'Ana da Silva |
| 4DWN | TMT-based proteomic analysis reveals a distinctive response in COVID-19 patients throughout the time course of disease | Giuseppe Gianini F. Leite , Paula M. Peçanha-Pietrobon , Paulo R. Abrão Ferreira , Jaqueline Sonoe Ota Arakaki , Edecio Cunha-Neto , Alexandre Keiji Tashima e Reinaldo Salomao |
| 4DWP | Isobaric labeling-based Quantitative Proteomics Interrogates Changes in <i>Aedes aegypti</i> proteins during <i>Wolbachia pipientis</i> and Zika Virus infection | Luís Felipe Costa Ramos , Michele Martins , Jimmy Rodriguez Murillo , Gilberto Barbosa Domont , Danielle Maria Perpétua de Oliveira , |

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| | | Fábio César Sousa Nogueira , Rafael Maciel-de-Freitas e Magno Junqueira |
| 4DWR | Fixed-charge derivatization of sulfur compounds for their detection by MALDI and ESI MS in crude oils | Janna Starkova , Nikolay Polovkov e Roman Borisov |
| 4DWY | Integrative transcriptomics and proteomics reveal regulatory factors involved in embryogenic competence acquisition during somatic embryogenesis of sugarcane | Vitor Batista Pinto , Lucas Rodrigues Xavier , Pedro Marcus Pereira Vidigal , Roberta Pena da Paschoa e Vanildo Silveira |
| 4DXA | Geochemical forensic evaluation of samples from the oil spill on the coast of Pernambuco, Brazil occurred in 2019 | Ignes Regina dos Santos , Isabelle Farias Silva de Lima , Rayane Maria do Nascimento , Jhonattas de Carvalho Carregosa , Alberto Wisniewski Jr. , Alex Souza Moraes e Jandyson Machado Santos |
| 4DXF | Glycosylation links diabetes and cancer | Adriane R. Todeschini |
| 4DXK | Repair mechanism of DNA etheno adducts by singlet oxygen | Hulyana Brum , Ester Mazepa , Fernanda Manso Prado , Guilherme Lanzi Sasaki , Paolo Di Mascio , Marisa H. G. de Medeiros e Glaucia Regina Martinez |
| 4DXM | Use of High Throughput Technology LDTD for Different Vitamins Analysis in 9 Seconds | Pierre Picard e Jean Lacoursiere |
| 4DXN | Metabolite Regimen in Chronic Chagasic Cardiomyopathy and Idiopathic Dilated Cardiomyopathy: new insights into the molecular pathogenesis of advanced heart failure | Raphaela Menezes de Oliveira , Mariana Ubaldo Barbosa Paiva , Carolina Raíssa Costa Picossi , Diego Viana Neves Paiva , Carlos André Ornelas Ricart , Francisco Javier Rupérez , Coral Barbas , Fernando Antibas Atik e Aline Maria Araújo Martins |
| 4DXQ | Rapid pharmacokinetic analysis of small drugs by mass spectrometry imaging combined with product ion analysis | Laudicéia Alves de Oliveira |
| 4DXR | Protein Succinylation and Malonylation: Profiles in Schizophrenia and Antipsychotic Use | Bradley Joseph Smith e Daniel Martins-de-Souza |

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| 4DXS | Salt-assisted solid-liquid miniaturized extraction for pesticides determination in small wildlife rodents liver and kidney tissues from pantanal using UHPLC-MS/MS and GC-MS/MS | Pimperelli Jonco dos Santos , Luana Floriano , Érica Fernanda Gonçalves Gomes de Sá , Tomás Mariano Mac Loughlin , Pedro Cordeiro Estrela e Renato Zanella |
| 4DXV | Effect of short-term weathering on the molecular-level chemical composition of crude oils in contact with aquatic environments | Jhonattas de Carvalho Carregosa , Julian Eduardo Ballen Castiblanco , Tarcísio Martins Santos , Jandyson Machado Santos e Alberto Wisniewski Jr |
| 4DXW | Tools to Visualize Discrimination of Lacustrine Crude Oil from Different Brazilian Pre-salt Basins | Luan Felipe Campos Oliveira , Alessandra Sussulini e Marcos Nogueira Eberlin |
| 4DXX | Performance of collagen-based matrices derived from Nile Tilapia Skin in a rat wound healing model: a proteomic approach | Cláudia Barbosa de Almeida Medeiros , Iasmim Lopes Lima , Thiago Barbosa Cahú , Bruna Resende Muniz , Maria Helena Madruga Lima Ribeiro , Marcelo José Borges de Miranda , Ranilson de Souza Bezerra , Roberto Afonso da Silva e José Luiz de Lima Filho |
| 4DXZ | Use of the MasSpec Pen as an alternative for rapid screening of COVID-19 in urine | Alicia Camacho dos Santos , Iasmim Lopes Lima , Junier Marrero Gutiérrez , Michael Keating , Jonas Ribeiro Rosa , Alexandre Varão Moura , Alex Ap. Rosini Silva , Pedro Henrique Godoy Sanches , Danilo Cardoso de Oliveira , Andreia de Melo Porcari , Livia Schiavinato Eberlin , Adriano Reis José da Silva , Caroline Pais de Carvalho , Thiago da Cruz Canevari e Marcos Nogueira Eberlin |
| 4DY2 | Integrating SERS and PS-MS on a single substrate for the identification and confirmation of psychotropic substances in alcoholic beverages | Marina Jurisch , Mariana Ramos Almeida e Rodinei Augusti |

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| 4DY4 | Doxazosin degradation - TiO ₂ photocatalytic versus gamma irradiation degradation | Polonca Trebse , Mojca Bavcon Kralj , Tjasa Griessler Bulc e Albert Lebedev |
| 4DYA | Laser desorption ionization and collision-induced dissociation experiments for the characterization of island and archipelago-type asphaltenes | Lidya Cardozo da Silva , Jeferson Valencia Dávila , Felipe Pereira Fleming , Marianny Yajaira Combariza Montanez e Boniek Gontijo Vaz |
| 4DYB | Profiling of oligosaccharides and polysaccharides in alcoholic beverage using single quadrupole LC-MS | Luis Otávio Junqueira , Takanari Hattori , Natsuki Iwata , Hidetoshi Teraada e Yusuke Inohana |
| 4DYF | Protein phosphorylation networks drive the maintenance and expression of embryogenic competence in sugarcane callus by modulating transcriptional regulators and energy metabolism | Lucas Rodrigues Xavier , Vitor Batista Pinto , Felipe Astolpho Almeida , Claudete Santa-Catarina e Vanildo Silveira |
| 4DYK | Speciation of chemical constituents in pyrolytic oil from cassava harvest residues by HESI and APPI-Orbitrap MS | Wenes Ramos da Silva , Polyana Santos Rabelo e Alberto Wisniewski Jr |
| 4DYN | Proteomic profiles analysis of plasma exosomes and white blood cells reveals news insights of Parkinson's Disease patients classified into Hoehn & Yahr clinical stages | Bruna Luísa Franco Fadel , Nicole Woldmar , Gabriella Poralla , Jéssica Gorett Brito Fontes , Letícia Giacomini , Mariana Figueiredo , Joseph Albert Medeiros Evaristo , Fábio César Sousa Nogueira , Carolina Panis , Ana Rosso e Luciana Pizzatti |
| 4DYP | Proteomic analysis of primary tumors and paired brain metastases in lung adenocarcinoma patients identifies survival-related protein candidates | Nicole Woldmar , Magdalena Kuras , Beáta Szeitz , Viktória László , Judit Moldvay , Attila Marcell Szász , Johan Malm , Peter L. Horvatovich , Luciana Pizzatti , Gilberto Barbosa Domont , Gyorgy Marko-Varga , Karin Schelch , Zsolt Megyesfalvi , Balázs Döme e Melinda Rezeli |
| 4DYQ | Petroleomics to assess the temporal chemical modification of samples from the oil spill on the coast of Pernambuco in 2019 | Isabelle Farias Silva de Lima , Igenes Regina dos Santos , Jhonattas de Carvalho Carregosa , Alberto Wisniewski Jr , Alex Souza Moraes e Jandyson Machado Santos |

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| 4DYW | Beyond virus toxicity: amyloidogenic potential of structural Sars-CoV 2 proteins | Tháyna Sisnande , Celimar Sinésia da Silva , Marcus Vinícius de Mattos Silva , Mayara Torquato Lima da Silva , Larissa Maciel Bomfim , Fabiana Ávila Carneiro , Wanderley de Souza , Amilcar Tanuri , Diego Allonso Rodrigues dos Santos da Silva e Ronaldo Mohana-Borges |
| 4DYY | Proteins and endogenous auxin contribute to the activation of meristematic-type cells during adventitious rooting initiation in micropropagated shoots of Cedrela fissilis Vell. | Yrexam Rodrigues de Souza Ribeiro , Victor Paulo Mesquita Aragão , Kariane Rodrigues de Sousa , Amanda Ferreira Macedo , Eny Iochevet Segal Floh , Vanildo Silveira e Claudete Santa-Catarina |
| 4DZ2 | Screening of Peptide Libraries for the Receptor-Binding Domain (RBD) of SARS-CoV-2 Variants using a Single Quadrupole Mass Spectrometer | Jennifer C. Davis , Evelyn H. Wang , Christopher T. Gilles , Logan T. Miller , Vikki Johnson e Marcos Albieri Pudenzi |
| 4DZ6 | Proteomics and free polyamine analyses in somatic embryos of Passiflora edulis Sims ‘UENF Rio Dourado’ | Kaliane Zaira Camacho Maximiano Cruz , Felipe Astolpho Almeida , Ellen Moura Vale , Nadia Botini , Rosana Gobbi Vettorazzi , Renan Carrari dos Santos , Claudete Santa-Catarina e Vanildo Silveira |
| 4DZC | Reading out molecular phenotypes by mass spectrometry-based neuroproteomics | Magno Junqueira |
| 4DZD | A new approach for estimating the Post-mortem Interval (PMI) using chemical fingerprint from scavenger flies | Davi Rodrigues Da Silva , Alicia Camacho dos Santos , Iasmim Lopes Lima , Karine Brenda Barros Cordeiro , Jez William Batista Braga e Marcos Nogueira Eberlin |
| 4DZE | Spatial proteomics reveals subcellular reorganization in human keratinocytes exposed to UVA light | Hellen Valerio , Felipe Gustavo Ravagnani , Angela Paola Yaya Candela , Bruna Dias Carvalho da Costa , Graziella Eliza Ronsein e Paolo Di Mascio |

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| 4DWZ | 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 , Anna Carolina Nickel Meireles , Sergiane Caldas Barbosa e Ednei Gilberto Primel |
| 4DZK | Mass Spectrometry and Machine Learning in Compound Identification – The Case of SARS-CoV-2 | Leonardo S. Santos , Fabiane Manke Nachtigall , Alfredo Pereira e Oleksandra S. Trofymchuk |
| 4DZN | Online SPE-LC-HRMS of native urine for screening of doping compounds | Gustavo Ramalho Cardoso dos Santos , Gabriel Reis Alves Carneiro e Henrique Marcelo Gualberto Pereira |
| 4DZS | Identification of STK (PF3D7_1423600) kinase substrates in Plasmodium falciparum through phosphoproteomics and bioinformatics reveals potential targets for parasite nutrient uptake | Julio Cesar Monteiro Junior , Livia Rosa Fernandes , Arne Krüger , Franciarli da Silva Paz , Vinicius de Moraes Gomes , Lays Adrienne Mendonça Trajano Silva , Giuseppe Palmisano e Carsten Wrenger |
| 4DZT | Penetration of thiabendazole in fruits by Laser Ablation Electrospray Ionization (LAESI) | Gabriel Franco dos Santos |
| 4DZY | MALDI-TOF MS and machine learning for the analysis of molecular patterns for prognosis of COVID-19 | Lucas Cardoso Lázari , Fabio De Rose Ghilard , Rodrigo M. Zerbinati , Livia Rosa Fernandes , Verônica Feijoli Santiago , Claudia Blanes Angeli , Paulo Henrique Braz-Silva , Rinaldo Focaccia Siciliano , Edison Luiz Durigon e Giuseppe Palmisano |
| 4DZZ | Zebrafish Water Tank model as a tool to evaluate phase I and II metabolites of Methyltestosterone | Beatriz Hoffmann de Souza , Marcio Vinicius da Silva Gomes , Isabelle Karine Da Costa Nunes , Monica Costa Padilha e Henrique Marcelo Gualberto Pereira |
| 4E2C | Cellular Imprinting Proteomics Assay (CImPA) optimization and characterization of the ocular proteome | Claudia Blanes Angeli , Janaina Macedo da Silva , Livia Rosa Fernandes , Raquel Hora Barbosa , Martin Røssel Larsen , Claudete Araújo Cardoso e Giuseppe Palmisano |

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| 4E2D | Mass spectrometry and Chemical ecology laboratory – MS-CELL | Célio Fernando Figueiredo Angolini , Fernanda Silva Ribeiro , Marcos Venicius Nunes , Webster Fernando de Carvalho Junior , Laís Castro de Carvalho , Arnaldo Almeida Junior , Julio Cesar Maceda Santivañez e Elaine de Moura Macedo1 Kelly Cavalcanti Machado , Thiago Bousquet Bandini , Rodrigo Soares Caldeira Brant , Hulyana Brum , Iaralice Medeiros de Souza , Anna Erika Vieira de Araujo , Hugo Garcia Tonioli Defendi e Michel Batista |
| 4E2M | A Decade of Challenges: From Shotgun Proteomics Towards Antibody Characterization by LC-MS/MS in a Brazilian MS Core Facility | Rosana Gobbi Vettorazzi , Tadeu dos Reis de Oliveira , Vanildo Silveira e Claudete Santa-Catarina |
| 4E2R | Physiological aspects and proteomic profile associated with the development and germination of seeds of <i>Paubrasilia echinata</i> Lam E. Gagnon, H. C. Lima & G. P. Lewis (Fabaceae) | Marcia Helena Borges , Diego Magno Assis , Jaqueline L. Santos , Juliana R. Moraes , Patrícia Cota Campos , Elizabeth Gordon , Marcos V. F. Silva , Marluce A. A. Oliveira , Begoña Lopez e Matthew Willetts |
| 4E2S | Evaluation of yellow fever influence on patient's protein profile by Trapped Ion Mobility Mass Spectrometry | Emanuelle Mesquita da Costa Novo , Anna Carolina Perssonelli Serra e Breno Frederico Pereira Paulo |
| 4E2W | Determination of Lyso-GB3 in dried blood spots: a useful biomarker for Fabry disease diagnosis and treatment | Lucas do Espirito Santo Gomes , Lucas Rodrigues Xavier , Vanildo Silveira e Vitor Batista Pinto |
| 4E2X | DNA methylation triggers changes in the proteome responses associated with sugarcane somatic embryogenesis | Renan Carrari dos Santos , Rosana Gobbi Vettorazzi , Vitor Batista Pinto , Edinaldo de Oliveira Alves Sena , Jurandi Gonçalves Oliveira , Eliemar Campostrini , Vanildo Silveira e Claudete Santa-Catarina |
| 4E42 | Effect of microporous membrane and culture medium on endogenous content of ethylene, CO ₂ , polyamines and proteomic profile during in vitro germination of <i>Dalbergia nigra</i> (Vell.) ex Benth. (Fabaceae) | |

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| 4E44 | Effect of RNA later storage of tissues on the abundance of amino acids and acylcarnitines determined by tandem mass spectrometry | Junier Marrero Gutiérrez , João Pedro G. Cirino , Danilo Cardoso de Oliveira , Nicole Marino Granado , Alex Aparecido Rosini Silva e Andreia de Melo Porcari |
| 4E4A | Quantification of high-density lipoprotein (HDL)-associated proteins in hospitalized and non-hospitalized COVID-19 patients | Douglas Ricardo de Souza Junior , Amanda Ribeiro Martins da Silva , Lívia Rosa Fernandes , Giuseppe Palmisano e Graziella Eliza Ronsein |
| 4E4F | Study of the Composition of the Fractions of Macaúba Endocarp Bio Oil Obtained by the Prep-LC Technique Using GC-MS | Willian Pereira Gomes , Lídia Renata Zanão , Suellen Rodrigues Ramalho , Giselle de Carvalho , Gisele Marta Martins , Helio Merá de Assis , Jessica Carolina Medina Gallardo e Desiree Soares da Silva |
| 4E4G | Protein arginylation: A new key player in SARS-CoV-2 infection | Janaina Macedo da Silva , Lívia Rosa Fernandes , Vinicius de Moraes Gomes , Verônica Feijoli Santiago , Deivid Martins Santos , Catarina Maria Stanischesk Molnar , Bruno Rafael Barboza , Rodolfo Ferreira Marques , Silvia Beatriz Boscardin , Edison Luiz Durigon , Cláudio Romero Farias Marinho , Carsten Wrenger , Suely Kazue Nagahashi Marie e Giuseppe Palmisano |
| 4E4H | Tracheal aspirate proteome reveals association of CD177 with mortality in severe COVID-19 | Victor da Conceição David , Luana Rocha da Silva , Emilly Caroline dos Santos Moraes , Samuel Mandacaru , Tiago Moreno Lopes Souza , Patrícia Torres Bozza e Monique Ramos de Oliveira Trugilho |
| 4E4K | Quantitative Analysis of the Endogenous Steroid Profile in Plasma of Patients with Parkinson's Disease by GC-MS/MS | Jéssica Goret Brito Fontes , Andressa Cristina dos Santos Marques , Bruna Brito , Bruna Luísa Franco Fadel , Nicole Woldmar , Gabriella Poralla |

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| | | , Mariana Figueiredo , Letícia Giacomini , Ana Rosso , Monica Costa Padilha e Luciana Pizzatti |
| 4E4N | The new age of renewable chemicals: bio-oils from sugarcane bagasse and straw over the view of Ultra-High Resolution Mass Spectrometry | Tarcísio Martins Santos , Caroline Carriel Schmitt , Renata Moreira , Klaus Raffelt , Nicolaus Dahmen e Alberto Wisniewski Jr |
| 4E4T | Pitfalls in steroid analysis by LC-MS/MS | Anna Sylvia Ferrari Marques , Atecla Nunciata Alves Lopes , Berenice Bilharinho de Mendonça e Helena Panteliou Lima Valassi |
| 4E4V | Analysis of endosulfan isomers and other pesticides in surface water of the Paraíba do Sul River Basin by solid phase extraction and comprehensive two-dimensional gas chromatography coupled with time of flight mass spectrometry | Felipe Cury Mazza , Isabella J.O. dos Santos , Nilo Antônio de Souza Sampaio , Luciana Nascimento Rocha Mangelli e Carin von Mühlen |
| 4E4W | Separation Speed concepts applied to biofuel analysis | Carin von Mühlen |
| 4E4X | Plasma metabolome predicts the response to neoadjuvant chemotherapy in women with breast cancer | Álex Aparecido Rosini Silva , Marcella Regina Cardoso , Pedro Henrique Godoy Sanches , Danilo Cardoso de Oliveira , Nicole Marino Granado , Junier Marrero Gutiérrez , Raquel M. Rodrigues-Perez , Sophie F. M. Derchain e Andreia de Melo Porcari |
| 4E4Y | Urine metabolites enable fast detection of covid-19 using mass spectrometry | Alexandre Varão Moura , Danilo Cardoso de Oliveira , Álex Aparecido Rosini Silva , Jonas Ribeiro da Rosa , Pedro Henrique Dias Garcia , Pedro Henrique Godoy Sanches , Kyana Y. Garza , Junier Marrero Gutiérrez , Nicole Marino Granado , Lisamara Dias de Oliveira Negrini , Marcia Aparecida Antonio , Marcos Nogueira Eberlin , Livia Schiavinato Eberlin e Andreia de Melo Porcari |

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| 4E4Z | Proteomic profile of platelets and extracellular vesicles reflect platelet hyper-reactivity and cell death in severe COVID-19 | Emilly Caroline dos Santos Moraes , Remy Martins-Gonçalves , Luana Rocha da Silva , Isaclaudia Azevedo-Quintanilha , Marlon D M Santos , Paulo Costa Carvalho , Jonas Perales , Thiago Moreno Lopes Souza , Hugo Caire de Castro Faria Neto , Eugenio D. Hottz , Patrícia Torres Bozza e Monique Ramos de Oliveira Trugilho |
| 4E6A | Wiring the proteome of multiple sites gives insights into head and neck cancer biology. | Adriana F. Paes Leme |
| 4E6E | Proteolysis: an overseen protein post-translational modification and its impact on endogenous systems | Ana Beatriz Queiroz Bahia , Ana Carolina Lara Ribeiro , Brenda Raíssa de Oliveira , Diana Paola Gomez-Mendoza , Igor Maciel Souza-Silva , Júlia Rezende Ribeiro , Larissa Luppi Monteiro de Barros , Lucas Gabriel Bolais Ramos , Lucas Rodrigues Ribeiro , Maria Luiza Dias Pinto , Megan Rodrigues Lopes , Robson Augusto Souza dos Santos e Thiago Verano-Braga |
| 4E6H | Proteomic analysis reveals the interaction of β -actin and non-muscle myosin II in the nucleus | María José González Armijos , Clara Couto Fernandez , Michele Angela Rodrigues e Dawidson Assis Gomes |
| 4E6J | Quantification of the components of the Renin Angiotensin System in the light/dark period | Júlia Rezende Ribeiro , André Gustavo de Oliveira , Robson Augusto Souza dos Santos e Thiago Verano-Braga |
| 4E6K | Sodium Interference in Lithium Isotope Ratio Analysis by Inductively Coupled Plasma Mass Spectrometry | Mariana Novais Andrade , Juliana Ikebe Otomo , Maíse Pastore Gimenez , Letícia da Silva Nascimento , Henrique Bataglia do Nascimento , Paulo Henrique Barreto Leão , Priscila de Souza |

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| 4E6T | Microwave-assisted digestion for cobalt quantification as diethyldithiocarbamate derivatives in human urine by LC-MS: an application in doping control | Cecílio , Vanderlei Sergio Bergamaschi , João Coutinho Ferreira e Oscar Vega-Bustillos Vanessa Farelo dos Santos , Gabriel Reis Alves Carneiro , Bernardo Ferreira Braz , Ricardo Erthal Santelli , Sérgio de Paula Machado e Henrique Marcelo Gualberto Pereira |
| 4E6V | Urine untargeted metabolomics in COVID-19 patients | Alexandre Varão Moura , Danilo Cardoso de Oliveira , Álex Aparecido Rosini Silva , Jonas Ribeiro da Rosa , Pedro Henrique Dias Garcia , Pedro Henrique Godoy Sanches , Nicole Marino Granado , Junier Marrero Gutiérrez , Alicia Camacho dos Santos , Iasmim Lopes Lima , Marcos Nogueira Eberlin , Lisamara Dias de Oliveira Negrini , Kyana Y. Garza , Livia Schiavinato Eberlin e Andreia de Melo Porcari |
| 4E6W | Optimizations on Lithium ion exchange separation and isotopic measurements | Juliana Ikebe Otomo , Maíse Pastore Gimenez , Mariana Novais Andrade , Lucilena Rebelo Monteiro , Letícia da Silva Nascimento , Henrique Bataglia do Nascimento , Paulo Henrique Barreto Leão , Priscila de Souza Cecílio , Vanderlei Sergio Bergamaschi , João Coutinho Ferreira e Oscar Vega-Bustillos |
| 4E6Y | Plasma proteomic signature of Malaria infection during pregnancy reveals altered complement system activation | Verônica Feijoli Santiago , Jamille Gregório Dombrowski , Rebeca Kawahara , Lívia Rosa Fernandes , Simon Mule , Thais Viggiani Santana , Oscar Murillo , João Victor Paccini Coutinho , Janaina Macedo da Silva , Lucas Cardoso Lázari , Erika Paula Machado Peixoto , Marcel Ivan |

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| 4EAD | The advantages of applying different ionization sources FT-ICR Mass Spectrometry in geochemical assessments | Ramirez , Martin Røssel Larsen , Cláudio Romero Farias Marinho e Giuseppe Palmisano Danielle Mitze Muller Franco , Taynara Rodrigues Covas , Lidya Cardozo da Silva , Rosana Cardoso Lopes Pereira , Mario Duncan Rangel , Rosineide Costa Simas , Gabriel Henry Morais Dufrayer , Talita Pinheiro Brito e Boniek Gontijo Vaz |
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| 4EAP | Evaluation of cortisol in dogs by liquid chromatography coupled to mass spectrometry | Bruna Brito , Gabriel Reis Alves Carneiro , Andressa Cristina dos Santos Marques , Rafael Pessoa Campello Queiroz , Henrique Marcelo Gualberto Pereira e Monica Costa Padilha |
| 4EAQ | Hyperglycemia leads to aberrant N-glycosylation in colon cancer cells by increasing the pool of activated monosaccharides | Hector Franco Barbosa Rhault Loponte , Isadora Araújo Oliveira , Bruno Costa Rodrigues , Rodrigo Nunes da Fonseca , Ronaldo Mohana-Borges , Frederico Alisson Silva , Wagner Barbosa Dias e Adriane R. Todeschini |
| 4EAT | Electrospray orbitrap mass spectrometry combined with multivariate analysis to evaluate ultra-low sulfur diesel stability | Deborah Victoria Alves de Aguiar , Jussara Valente Roque , Leomir Aires Silva de Lima , Iris |

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| 4EAW | Pre-validation of alternative method animal experimentation with precision cut liver slices by mass spectrometry | Carla Santos de Freitas , Thaís Rosa Marques dos Santos , Marize Campos Valadares , Rosineide Costa Simas e Eliana Martins Lima |
| 4EB6 | Proteomic profiling of Southwestern Colombian Bothrops venoms using micropillar array-based chromatography | Luis Miguel Muñoz Gómez , Paulo Costa Carvalho , Jimmy Alexander Guerrero Vargas , Richard Hemmi Valente e Ana Gisele Da Costa Neves Ferreira |
| 4EBD | Integrative proteomics and metabolomics analysis reveals novel Arginase-like function regulating lipids biosynthesis in microalgae | Laís Albuquerque Giraldi , Lucca de Filipe Rebocho Monteiro , Diego Mauricio Riaño-Pachón , Alexandre Victor Fassio , Ivan Alberto Sandoval Salazar , Leandro Luis Lavandosque , Aline Cristina Camargo , Valéria Lopes Ferreira Vianna , Camila Caldana e Flavia Vischi Winck |
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| 4EBH | UPLC-MS\MS method development for LASFAE 036 Pharmacokinetic evaluation | Filipe Soares Quirino da Silva , Débora Inácio Leite Firmino Marinho , Monica Macedo Bastos , Nubia Boechat e Carolina Cattapreta |
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| 4EBK | Evaluating magnetic nanoparticles as sorbents to dispersive solid phase extraction (dSPE) in the detection of cannabinoids by LC-MS/MS. | Patricia De Souza Schwarz , Sarah Eller e Tiago Franco de Oliveira |
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| 4EBR | Plasma proteomic profile and immune response of patients with COVID-19 | Samila Natiane Ferreira , Shana Priscila Coutinho Barroso , Jessica da Silva Oliveira , Carolina Lopes Silva Santos , Bruna Luísa Franco Fadel , Carolina Panis , Cynthia Chester Cardoso e Luciana Pizzatti |
| 4EBT | Plasma proteomics study of children with multisystem inflammatory syndrome associated with COVID-19 | Mauricio Quiñones Vega , Patricia Sosa Acosta , Jessica de Siqueira Guedes , Natália Pinto de Almeida , Danielle C. N. do Nascimento , Bárbara Carvalho Santos Dos Reis , Zilton F. M. Vasconcelos , Fábio César Sousa Nogueira e Gilberto B Domont |

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| 4EBV | Assessment of petroleum compounds in sea turtles from the coast of the state of Ceará, Brazil, after the 2019 oil spill using ESI(-) FT-ICR MS | Ana Carolina Santos Luz , André Henrique Barbosa de Oliveira , Rivelino Martins Cavalcante , Rufino Neto Andrade de Azevedo , Adriana Pereira do Nascimento , Alice Frota Feitosa , Caroline Vieira Feitosa , Danielle Mitze Muller Franco , Taynara Rodrigues Covas , Boniek Gontijo Vaz e Laercio Lopes Martins |
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| 4EBY | A new metalloproteinase fragment identified by peptidomic analysis in the venom of Bothrops cotiarais an angiotensin-converting enzyme inhibitor | Jackson Gabriel Miyamoto , André Fernando Medina , Bruno Ramos Salu , Erika Sayuri Nishiduka , Jorge Ripoll-Rozada , Rogério Lauria da Silva , André Luís Lira , Alioscka Augusto Sousa , Eduardo Shigueo Kitano , André Zelanis , Solange M T Serrano , Marcelo Larami Santoro , Sávio Stefanini Sant'Anna , Patrícia Alessandra Bersanetti , Adriana Karaoglanovic Carmona , Pedro José Barbosa Pereira , Maria Luiza Vilela Oliva e Alexandre Keiji Tashima |
| 4EBZ | Cortisol quantification in human plasma and urine by UHPLC-MS/MS: validation, analysis and evaluation in healthy volunteers | Andressa Cristina dos Santos Marques , Jéssica Gorett Brito Fontes , Bruna Brito , Gabriel Reis |

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| 4EC4 | Development of a method for the characterization of biodiesel products by UHPLC-HRMS | João Vitor Barros Mendes , Gabriel Reis Alves Carneiro , Renan De Oliveira Muniz , Cristiane Gimenes Souza , Débora França de Andrade , Monica Costa Padilha e Luiz Antonio d'Avila |
| 4EC6 | Synthesis of new acryloitrles derived from aroyl-acetonitriles | Welisson Vilarindo de Oliveira , Tahira Souza Melo , Érika Demasceno , MANUEL Salustiano Almeida Saavedra e Jan Carlo Morais Oliveira Bertassoni Delorenzi |
| 4ECC | Analysis of Glycosylation of a Monoclonal Antibody Biosimilar Candidate using Mass Spectrometry | Sanclayver Corrêa Araújo , Leda dos Reis Castilho e Renato Sampaio Carvalho |
| 4ECD | Forensic environmental geochemistry by petroleomics to investigate the frequent oil spills reaching the coast of Brazil since 2019 | Adriana Pereira do Nascimento , Rivelino Martins Cavalcante , André Henrique Barbosa de Oliveira , Rufino Neto Andrade de Azevedo , Danielle Mitze Muller Franco , Taynara Rodrigues Covas , Boniek Gontijo Vaz e Laercio Lopes Martins |
| 4ECF | Proteomic analysis of burn tissue regeneration upon treatment with biological dressing of Tilapia (<i>Oreochromis niloticus</i>) skin in comparison to treatment with silver sulfadiazine | Ivna Ferreira Gomes , Fernanda Soares Macedo , Laís Lacerda Brasil de Oliveira , Maria Gilnara Lima Bandeira , Guilherme Graziany Camelo De Carvalho e Carlos Roberto Kosky Paier |
| 4ECJ | Proteomic identification of potential mesenchymal biomarkers for high-grade ovarian serous carcinoma through the study of exosomes released by ovarian cancer cell lines during the mesenchymal-epithelial transition. | Germano Aguiar Ferreira , Carolina Hassibe Thome , Clarice Izumi , Mariana Lopes Grassi , Guilherme Pauperio Lanfredi , Marcus Smolka , Vitor Marcel Faça e Francisco José Candido dos Reis |
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| | | Norberto Peporine Lopes e Andréia Machado Leopoldino |
| 4ECP | Proteomic characterization of patients who died with COVID-19 in Amazonas | Cláudia Patrícia Mendes de Araújo , Carolina Moresi Vieira , Ketlen Christine Ohse , Sofia Angiole Cavalcante , Marcus Vinicius Guimarães de Lacerda , Vanderson de Souza Sampaio , Gisely Cardoso Melo , James Lee Crainey , Michel Batista , Amanda Caroline Camillo de Andrade , Marlon D M Santos , Diogo Borges Lima , Juliana de Saldanha da Gama Fischer , Paulo Costa Carvalho e Priscila Ferreira de Aquino |
| 4ECR | Analysis of the interaction between dm43 inhibitor and snake venom metalloendopeptidase BAP1 | Yago Inocencio Vieira de Pinho , Ana Gisele Da Costa Neves Ferreira , Barbara da Silva Soares , Teresa Escalante e Surza Lucia Gonçalves da Rocha |
| 4ECT | Multiomic Approach in the Study of Virulence Factors | Mayara de Mattos Lacerda de Carvalho , Livia Carvalho Barbosa , Cedric Delport , Pierre van Antwerpen , Paulo Mascarello Bisch e Leticia Miranda Santos Lery |
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| | | Clóvis Artur Almeida da Silva , Eloisa Bonfa e Sandra Gofinet Pasoto |
| 4EDX | Metabolic alterations caused by Gestational Diabetes Mellitus in the Rectus Abdominal Muscle in Gestational Diabetic-induced Myopathy | Fernanda Cristina Bergamo Alves , Rafael Guilen de Oliveira , David Rafael Abreu Reys , Gabriela Garcia , Carolina Neiva Frota de Carvalho , Angelica Mercia Pascon Barbosa e Marilza Vieira Cunha Rudge |
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| 4EEA | Proteomic and pharmacological comparison between Crotalus durissus cumanensis and Crotalus vegrandis venoms reveals for the first time FXa-like activity in rattlesnake venom. | Betzabeth Pereira |
| 4EEB | PROVID-19: Exploring the proteomic overview of COVID-19 patients in Amazonas | Priscila Ferreira de Aquino , Cláudia Patrícia Mendes de Araújo , Ketlen Christine Ohse , Carolina Moresi Vieira , Sofia Angiole Cavalcante , Felipe Gomes Naveca , Fernanda Nascimento de Oliveira , Valéria Silva Santos , Marcus Vinicius Guimarães de Lacerda , Michel Batista , Amanda Caroline Camillo de Andrade , Marlon D M Santos , Diogo Borges Lima , Juliana de Saldanha da Gama Fischer e Paulo Costa Carvalho |
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| 4EEH | New trends in analyses of petroleum and its derivatives using power separation tools | Dayane Magalhães Coutinho e Debora de Almeida Azevedo |
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| 4EEY | Untargeted metabolomics: Evaluation of the performance of athletes in 400-meter dash by GC-MS | Alessandra de Sousa Mesquita , Hans Rolando Zamora Obando , Andre Luiz Melo Camelo , Alan Gonçalves Amaral , Aline Cristina Dias , Renato Barroso da Silva , Evandro Cassiano Lázari e Ana Valéria Colnaghi Simionato |
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| 4E2K | Combining cellenONE® and timsTOF SCP for easy and sensitive, end-to-end label free single cell proteomics workflows | Christoph Krisp , Anjali Seth , David Hartlmayr , Thabata Alessandra Ramos Caruzo , Tharan Srikumar , Pierre-Olivier Schmit , Guihem Tourniaire , Markus Lubeck e Gary Kruppa |
| 4DNQ | <i>Aedes aegypti</i> cells infected with MAYV: a proteomic analysis | Anna Fernanda Vasconcellos, Samuel Mandacaru, Athos de Oliveira, Reynaldo Magalhães Melo, Renato Resende e Sébastien Charneau |
| 4E62 | Identification of proteins involved in aluminum accumulation and metabolism in the native cerrado species qualea dichotoma(vochysiaceae). | Natalia Cury |
