



# CERTIFICATE

The communication entitled ***Aedes aegypti* cells infected with MAYV: a proteomic analysis**

Authors: **Anna Fernanda Vasconcellos, Samuel Mandacaru, Athos de Oliveira, Reynaldo Magalhães Melo, Renato Resende and Sébastien Charneau**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled ***Comparison of two azobenzene-based amino acid derivatization reagents for LC-MS/MS analysis in positive and negative ESI modes***

Authors: **Ernesto de Jesus Zapata Flores, Nguyen Kim Ngan Bui, Sigrid Selberg, Koit Herodes and Ivo Leito**

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# CERTIFICATE

The communication entitled ***De novo* sequencing of ranid frogs skin peptides with the Twister algorithm**

Authors: **Kira Vyatkina, Irina Vasileva, Tatiana Samgina and Albert Lebedev**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **A Decade of Challenges: From Shotgun Proteomics Towards Antibody Characterization by LC-MS/MS in a Brazilian MS Core Facility**

Authors: **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 and Michel Batista**

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# CERTIFICATE

The communication entitled **A fast and novel urine toxicology screening method using DART-MSMS**

Authors: **Francois Espourteille**

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# CERTIFICATE

The communication entitled **A multi-omics approach for the study of bipolar disorder**

Authors: **Henrique Caracho Ribeiro, Partho Sen, Alex Dickens, Elisa Castañeda Santa Cruz, Matej Orešič and Alessandra Sussulini**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **A new approach for estimating the Post-mortem Interval (PMI) using chemical fingerprint from scavenger flies**

Authors: **DAVI RODRIGUES DA SILVA, Alicia Camacho dos Santos, Iasmim Lopes Lima, Karine Brenda Barros Cordeiro, Jez William Batista Braga and Marcos Nogueira Eberlin**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **A new approach to analyze polar compounds using a paper modification by PSI-MS**

Authors: **Gabriel Henry Morais Dufroyer, Igor Pereira da Silva, Marcella Ferreira Rodrigues, Rafael Oliveira Martins, Jussara Valente Roque, Gabriel Franco Santos, ROSINEIDE COSTA SIMAS, Andrea Rodrigues Chaves and Boniek Gontijo Vaz**

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# CERTIFICATE

The communication entitled **A new metalloproteinase fragment identified by peptidomic analysis in the venom of *Bothrops cotiara* is an angiotensin-converting enzyme inhibitor**

Authors: **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 and Alexandre Keiji Tashima**

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# CERTIFICATE

The communication entitled **A rapid and simple analysis of non-invasive biopsies by mass spectrometry applied to the discovery of oral cancer sphingolipids biomarkers**

Authors: **JOVELINA SAMARA FERREIRA ALVES, Rodrigo Moreira da Silva, Julia Potenza, Tatiane Resende Ushida, Mario Taba Jr, Leandro Luongo de Matos, Norberto Peporine Lopes and Andréia Machado Leopoldino**

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# CERTIFICATE

The communication entitled **A straightforward fast gas chromatography-mass spectrometry method to the determination of antidepressants in plasma**

Authors: **Giovanna Cristiano Gouveia, PATRICIA DE SOUZA SCHWARZ, Gabriela Ramos Borges, Bruno Pereira dos Santos, Sarah Eller and Tiago Franco de Oliveira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **A vortex-assisted MSPD method for the extraction of Polycyclic Aromatic Hydrocarbons from shrimp and determination by GC-MS/MS**

Authors: **Jean Lucas de Oliveira Arias, Anna Carolina Nickel Meireles, Sergiane Caldas Barbosa and Ednei Gilberto Primel**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **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**

Authors: **Felipe Cury Mazza, Isabella J.O. dos Santos, Nilo Antônio de Souza Sampaio, Luciana Nascimento Rocha Mangelli and Carin von Mühlen**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Analysis of fungal co-culture metabolites using both classic and imprinting Mass Spectrometry Imaging**

Authors: **Tallyta Santos Teixeira, Jorge Candido Rodrigues Neto, Aparecido Almeida Conceição, Patrícia Pinto Kalil Gonçalves Costa, Félix Gonçalves de Siqueira and Patricia Verardi Abdelnur**

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# CERTIFICATE

The communication entitled **Analysis of Glycosylation of a Monoclonal Antibody Biosimilar Candidate using Mass Spectrometry**

Authors: **Sanclayver Corrêa Araújo, Leda dos Reis Castilho and Renato Sampaio Carvalho**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Analysis of the incorporation of oxyresveratrol, doxorubicin, melphalan and its metabolites in treated breast cancer cells by LC-HRMS**

Authors: **Aline Gabrielle Alves de Carvalho, Carlos Luan Alves Passos, Christian Ferreira, Jerson Lima da Silva, Eliane Fialho and Rafael Garrett**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **ANALYSIS OF THE INTERACTION BETWEEN DM43 INHIBITOR AND SNAKE VENOM METALLOENDOPEPTIDASE BAP1**

Authors: **Yago Inocencio Vieira de Pinho, Barbara da Silva Soares, Surza Lucia Gonçalves da Rocha, Teresa Escalante and ANA GISELE DA COSTA NEVES FERREIRA**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Analysis of transformations of oxytetracycline in water/sediment systems by HPLC-MS<sup>n</sup>**

Authors: **Federico Martin Ivanic, Roberto Jorge Candal and Matías Butler**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Analysis of *Komagataella phaffii* metabolites using mass spectrometry**

Authors: **Miria Almeida Souza, Clara Vida Galvão Corrêa Carneiro, João Ricardo Moreira de Almeida and Patricia Verardi Abdelnur**

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# CERTIFICATE

The communication entitled **Analytical methodology for determination of glyphosate residues in papaya using ESI-LC-MS/MS**

Authors: **RENATA DE OLIVEIRA SILVA, FELIPE SOUSA DA SILVA, CRISIANA DE ANDRADE NOBRE, MARIA APARECIDA LIBERATO MILHOME and Ronaldo Ferreira Do Nascimento**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Antagonism of Bacillus spp. against pathogenic fungi from soy bean (Glycinia max)**

Authors: **Fernanda Silva Ribeiro, Isabella Takahashi Kitano, João Vitor Butzge and Célio Fernando Figueiredo Angolini**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **APEX2-based proteomic mapping of *Plasmodium falciparum* mitochondrion**

Authors: **Lucas Silva de Oliveira, Farah Camila Murtadha, Marcos Rodrigo Alborghetti and Sébastien Charneau**

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# CERTIFICATE

The communication entitled **Application of advanced analytical techniques in the molecular geochemical investigation of oil in forensic studies×GC-TOFMS**

Authors: **Victor de Menezes Lopes Lessa, Vinicius Barreto Pereira, Debora de Almeida Azevedo, Francisco Radler Aquino Neto, Gabriela Vanini Costa, Daniella Lopez Vale and Alexandre de Oliveira Gomes**

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# CERTIFICATE

The communication entitled **Assessment of environmental contamination by sewage using LC-MS/MS for analysis of sediments from the Ipojuca River, Pernambuco - Brazil**

Authors: **Ana Flavia Barbosa de Oliveira, Bruna Ramos de Souza Gomes, Rebeca dos Santos França, Giovana Anceski Bataglion, Alex Souza Moraes and Jandyson Machado Santos**

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# CERTIFICATE

The communication entitled **Assessment of environmental contamination of sediments from the Capibaribe River in Pernambuco/Brazil using LC-MS/MS and GC/MS for biomarkers detection**

Authors: **Bruna Ramos de Souza Gomes, Rayane Maria do Nascimento, Rebeca dos Santos França, Giovana Anceski Bataglion, Alex Souza Moraes and Jandyson Machado Santos**

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# CERTIFICATE

The communication entitled **Assessment of exposure to organochlorine pesticides in Cidade dos Meninos, Duque de Caxias city, Rio de Janeiro, by gas chromatography with tandem mass spectrometry.**

Authors: **Tatyane Pereira dos Santos, Heldis Beloni de Oliveira, Sergio Rabello Alves and Ana Cristina Simões Rosa**

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# CERTIFICATE

The communication entitled **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**

Authors: **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 and Laercio Lopes Martins**

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# CERTIFICATE

The communication entitled **Assessment of pyrethroids pesticides levels in environmentally exposed population at Rio de Janeiro city by HPLC-MS/MS**

Authors: **Ana Cristina Simões Rosa, Heldis Beloni de Oliveira, Tatyane Pereira dos Santos, Ana Paula das Neves Silva, Jordana Araújo Gonçalves, Eline Gonçalves Simões, Sergio Rabello Alves and Paula de Novaes Sarcinelli**

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# CERTIFICATE

The communication entitled **Automated PY-GCMS Workflow for the Qualitative and Quantitation Analysis of Microplastics in Environmental Samples**

Authors: **Alan Owens, Andy Sandy, Yoshiyuki Okamura, Ruth Marfil-Vega and Ricardo Tamashiro Reis**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Beta-Agonists residues in bovine liver, method development and validation plan according to commission implementing regulation (EU) 2021/808**

Authors: **Ana Claudia dos Santos Rossi Ribeiro, Carlos Juliano da Silva and Vanessa Gonçalves dos Santos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Beyond virus toxicity: amyloidogenic potential of structural Sars-CoV 2 proteins**

Authors: **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 and Ronaldo Mohana-Borges**

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# CERTIFICATE

The communication entitled **Biological Activity and Chemical Profiling of *Streptomyces* sp. CMAA 1738** acting on the biocontrol of the wheat pathogen *Bipolaris sorokiana*

Authors: **Helio Danilo Quevedo, Caroline Sayuri Nishisaka, Célio Fernando Figueiredo Angolini and Rodrigo Mendes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Bioprospection for Antileishmanial Activity and Identification of Bioactive Metabolites of *Calycophyllum spruceanum* by Molecular Docking and Metabolomic Analysis**

Authors: **Joseph Albert Medeiros Evaristo, Elise Bitencourte de Laia, Bruna Fonseca Tavares, Fernando Loza Guariero, Esdras Abimael Maia Mendonça, Sheila Barreto Guterres, Fernando Zanchi, Fábio César Sousa Nogueira and Geisa Paulino Caprini Evaristo**

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# CERTIFICATE

The communication entitled **Can Mass Spectrometry solve authentication issues in modern art?**

Authors: **María Florencia Castellá, Marta Perez Estebanez, Joy Mazurek, Tom Learner, Jorge Fernandez Niello, Marcos Tascon and Fernando Marte**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Carotenoid-Targeted Metabolomics of *Staphylococcus aureus* by LC-MS/MS: Metabolites Associated with Tolerance to Oxidative-Stress**

Authors: **Gerson-Dirceu López, Elizabeth Suesca, Gerardo Álvarez-Rivera, Adriana E. Rosato, Joseph Lorent, Elena Ibañez, Alejandro Cifuentes, Chad Leidy and Chiara Carazzone**

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# CERTIFICATE

The communication entitled **CCS-UFRJ extract bank: chemical characterization of Myrtaceae species by UHPLC- MS/MS and chemometric analyses**

Authors: **Simony Carvalho Mendonça, Brendo Araujo Gomes and Suzana Guimarães Leitão**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Cellular Imprinting Proteomics Assay (CImPA) optimization and characterization of the ocular proteome**

Authors: **Claudia Blanes Angeli, Janaina Macedo da Silva, Livia Rosa Fernandes, Raquel Hora Barbosa, Martin Røssel Larsen, Claudete Araújo Cardoso and Giuseppe Palmisano**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Cellular interactome by Cross-Linking Mass Spectrometry (XL-MS)**

**Authors: Giovanna Lopes de Araújo, Guilherme Reis de Oliveira, Wallace Rodrigues de Paula, Rafael Douglas Clemente Gallo, Milan Avila Clasen, Paulo Costa Carvalho, Igor Jurberg and Fábio Cesar Gozzo**

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# CERTIFICATE

The communication entitled **Characterization by GC/MS of volatile fraction from *Cymbopogon martinii* (Poaceae) essential oil and evaluation of its repellent activity against *Lasioderma serricorne***

Authors: **Johanna Catalina Rosero Rosero, Jairo Rene Martinez and Elena E. Stashenko**

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# CERTIFICATE

The communication entitled **Characterization of antibacterial proanthocyanidins of *Dalbergia monetaria* L.f. using HR UHPLC-MS<sup>n</sup> and Molecular Networking approach**

Authors: **Patricia Homobono Brito de Moura, Carla Monteiro Leal, Andrea Porzel, Ludger A. Wessjohann, Roberto Carlos Campos Martins and Ivana Correa Ramos Leal**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Characterization of flavonoids present in *Foeniculum vulgare* by LC/MS/MS**

Authors: **NEIDE MARA DE MENEZES EPIFANIO, Piotr Kachlicki, Marcin O?arowski and Douglas Siqueira de Almeida Chaves**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Characterization of green coffee beans from Cerrado Mineiro using Paper Spray Mass Spectrometry (PS-MS)**

Authors: **Larissa Batista Santos, Rodinei Augusti and Mariana Ramos Almeida**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **CHARACTERIZATION OF OMEGA-3 FATTY ACIDS IN FISH OIL SUPPLEMENTS BY ESI(+)-MS WITH EMPHASIS ON PRODUCT QUALITY**

Authors: **Leonardo Ayzawa Queiroz Quadra da Silva, Gabriel Gosling Stollar, Caroline Pais de Carvalho, Giuliana Milani Pantoja Telles de Menezes, MARCOS NOGUEIRA EBERLIN and ROSINEIDE COSTA SIMAS**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Characterization of volatile and semi-volatile organic compounds in library papers via comprehensive two-dimensional Gas Chromatography with Mass Spectrometry**

Authors: **Manoel Mendes Alves Junior, Thairine Lima dos Santos, Vinicius Barreto Pereira, Raquel Vieira Santana Silva and Celeste Yara dos Santos Siqueira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical characterization and evaluation of the biological potential of extracts and alkaloids isolated from *Palicourea corymbifera* (Müll. Arg.) Standl. (Rubiaceae)**

Authors: **Julio Cesar Maceda Santivañez and Célio Fernando Figueiredo Angolini**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical characterization by LC-MS and evaluation of the antiarthritic activity of herbal medicine with the extract of leaves of *Echinodorus macrophyllus***

Authors: **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 and Fernão Castro Braga**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical characterization of a potential anti-SARS-CoV-2 *Ampelozizyphus amazonicus* Ducke (Saracura-mirá) bark extract by LC-DAD-APCI-MS/MS**

Authors: **Mariana Freire Campos, Simony Carvalho Mendonça, Evelyn Maribel Condori Penaloza, Beatriz Albuquerque Custódio de Oliveira, Gilda Guimarães Leitão, Diego Allonso and Suzana Guimarães Leitão**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical composition of propolis from the Amazon region**

Authors: **Brícia Marques Parreiras, André Rodrigo Rech and Adriana Nori de Macedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical evaluation of bio-oils from different biomass and thermal conversion processes by ESI ( $\pm$ ) HRMS**

Authors: **Raquel Vieira Santana Silva and Debora de Almeida Azevedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical profiles of Ginseng extracts in nutritional supplements**

Authors: **David Menchaca, María Victoria Panzl and Alejandra Rodríguez-Haralambides**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chemical profiles of medicinal herbs in yerba mate (*Ilex paraguariensis*)**

Authors: **María Victoria Panzl, David Menchaca and Alejandra Rodriguez-Haralambides**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Chromatographic and mass spectrometric characterization of *Lippia organoides* (Verbenaceae) extract obtained with supercritical CO<sub>2</sub>**

Authors: **Maria Fernanda Estupiñan Garcia, Felix Camilo Muñoz, Anderson Julian Arias Velandia, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Classification of Brazilian pre-salt crude oils using time of flight mass spectrometry**

Authors: **Daniela França, Dayane Magalhães Coutinho, Vinicius Barreto Pereira and Debora de Almeida Azevedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Cocaine and its metabolites LC/MS analysis in zebrafish exposed to the alkaloid**

Authors: **Sebastian Ortiz Blanco, Andrés Fernando González Suárez, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Combining cellenONE® and timsTOF SCP for easy and sensitive, end-to-end label free single cell proteomics workflows**

Authors: **Christoph Krisp, Anjali Seth, David Hartlmayr, THABATA ALESSANDRA RAMOS CARUZO, Tharan Srikumar, Pierre-Olivier Schmit, Guihem Tourniaire, Markus Lubeck and Gary Kruppa**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comparing IR, NMR, and MS techniques as suitable forensic techniques to distinguish original and counterfeit perfumes**

Authors: **Patrícia Gonçalves do Prado Cardoso de Menezes, Claudia Elizabeth Fernandes de Castro, Iasmim Lopes Lima, Alicia Camacho dos Santos, Caroline Pais de Carvalho, Adriano Reis José da Silva, Ana María Garzón Porras and Marcos Nogueira Eberlin**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comparison between MALDI-TOF MS and liquid chromatography with fluorescence detection-based methods for sialic acid identification and quantification Sialic Acids, DMB derivatization, MALDI-TOF MS, 3-Hydroxypicolinic acid**

Authors: **Antonio Moreira Marques Neto, Claudia Blanes Angeli and Giuseppe Palmisano**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comparison of  $^{238}\text{U}$  mass fraction measured by ICP-MS and Instrumental Neutron Activation Analysis techniques**

Authors: **BRUNO TAPPIZ, Paulo Sergio Cardoso da Silva, CAROLINE KAKO OSTERMANN, Nicole Pereira de Lima, Mariana Novais Andrade and Oscar Vega-Bustillos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comparison of the volatilome of *Staphylococcus aureus* grown in nutrient medium and biofilm by GC/MS**

Authors: **Juan Esteban González Martínez, Elizabeth Suesca Sanchez, Gerson-Dirceu López, Chiara Carazzone and Chad Leidy**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Compound-specific carbon isotope study on the biomarkers from Amazonian floodplain lake**

Authors: **Vinicius Barreto Pereira, Alexander Andrey Lopes da Silva, Marco Aurélio Dal Sasso and Debora de Almeida Azevedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comprehensive chemical characterization of alkaloids from fruits *Solanum jussiaei* (Solanaceae)**

Authors: **Webster Fernando de Carvalho Junior, Célio Fernando Figueiredo Angolini, Marcos Venicius Nunes and Ana Paula Aparecida Pereira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comprehensive Metabolome Analysis of Fermented Aqueous Extracts of *Viscum album* L. by LC-HRMS/MS**

Authors: **Evelyn Maribel Condori Penalzoza, Carla Holandino, Claudia Scherr, Paula Ivens Pinto de Araújo, Ricardo Moreira Borges, Urech Konrad, Stephan Baumgartner and Rafael Garrett**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Comprehensive two-dimensional gas chromatography quadrupole mass spectrometry for the analysis of volatile compounds in guabiroba fruits**

Authors: **Stefany Grutzmann Arcari, Barbara Giocastro, Peter Quinto Tranchida, Paola Dugo and Luigi Mondello**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Concentration Changes of Sulfatides and Sphingomyelins in Body Fluids Reflect Cancer Progression of Renal Cell Carcinoma Patients**

Authors: **Robert Jirasko, Jakub Idkowiak, Denise Wolrab, Ale? Kvasni?ka, David Friedecký, Krzysztof Pola?ski, Hana ?tudentová, Vladimír ?tudent, Bohuslav Melichar and Michal Holcapek**

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# CERTIFICATE

The communication entitled **Cortisol quantification in human plasma and urine by UHPLC-MS/MS: validation, analysis and evaluation in healthy volunteers**

Authors: **Andressa Cristina dos Santos Marques, Jéssica Gorett Brito Fontes, Bruna Brito, Gabriel Reis Alves Carneiro, Henrique Marcelo Gualberto Pereira and Monica Costa Padilha**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Deciphering plant pathogenic fungi and rhizosphere bacteria interactions via genomic and metabolomic characterization**

Authors: **Arnaldo de Almeida Junior, Laís Castro de Carvalho, Isabella Takahashi Kitano, João Vitor Butzge and Célio Fernando Figueiredo Angolini**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **DEFINING A MOLECULAR LANDSCAPE OF REPARATIVE CARDIAC CELLS BY MS-IMAGING AND ADVANCED MS-PROTEOMICS APPROACHES**

Authors: **Glenda Oliveira, Andrew Smith, Paola Campagnolo, Patrizia Camelliti and Fulvio Magni**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Detection of amino compounds by diethyl ethoxymethylenemalonate derivatization and neutral loss scan mode**

Authors: **Larissa Silva Maciel, Arianna Marengo, Koit Herodes and Ivo Leito**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Detection of Anticoagulant Rodenticides in Forensic Food Samples by LC-DAD-MS/MS**

Authors: **Millena Ferreira Fernandes, Rogério Araújo Lordeiro and Adriana Nori de Macedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Deterioration of Pesticides in Soil Cultived with Coffee: Gamma Irradiation, GC/MS/MS and Modified QuEChERS Methodology.**

Authors: **Keila dos Santos Cople Lima, Antonio Luís dos Santos Lima, Paulo Carvalho Brabo and OTNIEL FREITAS SILVA**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Determination of degradation products of ether amine flotation agents used in mining activities by UHPLC-HRMS**

Authors: **LUCIENE PAIVA MOREIRA DA SILVA, Adriana Nori de Macedo, Lucas Pinto da Silva and Rodinei Augusti**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Determination of Dimethyltryptamine (DMT) in Samples of Zebrafish (*Danio Rerio*) Using Mass Spectrometry Imaging**

Authors: **MARIANA CAVALCANTE E ALMEIDA SA, Caroline Pais de Carvalho, MARCOS NOGUEIRA EBERLIN, Alex Aparecido Rosini Silva, Andreia de Melo Porcari and Ana Carolina Luchiari**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Determination of Lyso-GB3 in dried blood spots: a useful biomarker for Fabry disease diagnosis and treatment**

Authors: **Emanuelle Mesquita da Costa Novo, Anna Carolina Perssonelli Serra and Breno Frederico Pereira Paulo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Determination of macrolide antibiotic residues and metals in infant formulas by mass spectrometry based methods**

Authors: **Bernardete Ferraz Spisso, Mararlene Ulberg Pereira, Rosana Gomes Ferreira, Silvana do Couto Jacob, Cristiane Barata Silva, Carolina Duque Magalhães, Mayssa de Andrade Fonseca, Santos Alves Vicentini Neto, Rennan Geovanny Oliveira and Lisia Gobbo dos Santos**

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# CERTIFICATE

The communication entitled **Determination of pesticide residues in brazilian olive oil using liquid chromatography coupled to low and high resolution mass spectrometry**

Authors: **Luana Floriano, Rosalía López-Ruiz, Antonia Garrido Frenich, Renato Zanella and Osmar Damian Prestes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development and validation of HPLC-MS/MS methods for simultaneous determination of six N-nitrosamines impurities in losartan and valsartan pharmaceutical products**

Authors: **Mychelle Alves Monteiro, Patrícia Condé de Lima, Thiago Santana Novotny, Daniela S. Santana, Maria Emanuelle Damazio Lima, Anna Sophia Conhasco Lanzellotti Dantas, Laís Oliveira dos Santos, Matheus N. de Souza and Soraya de Mendonça Ochs**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development and validation of methods for quantification of six N-nitrosamines impurities in olmesartan and irbesartan pharmaceutical products by HPLC-MS/MS**

Authors: **Soraya de Mendonça Ochs, Patrícia Condé de Lima, Thiago Santana Novotny, Daniela Silva Santana, Maria Emanuelle Damazio Lima, Anna Sophia Conhasco Lanzellotti Dantas, Laís Oliveira dos Santos, Matheus N. de Souza and Mychelle Alves Monteiro**

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# CERTIFICATE

The communication entitled **Development of a comprehensive analytical method for determining emerging contaminants using UHPLC-ESI(±)-Orbitrap MS**

Authors: **Alexander Andrey Lopes da Silva, Raquel Vieira Santana Silva, Vinicius Barreto Pereira, Clarisse Lacerda Torres and Debora de Almeida Azevedo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development of a comprehensive two-dimension gas chromatography with hybrid time-of-flight analyzer (GCxGC/Q-TOFMS/MS) method for pesticides analysis in surface waters**

Authors: **Nayara Silva Fraga, Helvécio Costa Menezes and Zenilda de Lourdes Cardeal**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development of a method for the characterization of biodiesel products by UHPLC-HRMS**

Authors: **João Vitor Barros Mendes, Gabriel Reis Alves Carneiro, Renan De Oliveira Muniz, Cristiane Gimenes Souza, Débora França de Andrade, Monica Costa Padilha and Luiz Antonio d'Avila**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development of a quantitative methodology of immunosuppressants by MALDI-MS**

Authors: **Julia Lavorenti and Diogo de Oliveira Silva**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development of mixed matrix membranes decorated with silica-cdots nanocomposites as tools for decontamination of water containing bisphenol A using MS**

Authors: **Laura Chaluleu Lieb, Luccas Lossano Name, DANIEL YAEZU TIBA, Octavio Pereira Lopes de Souza, Aprys Cristina Travassos Sarinho dos Santos Oliveira and Thiago da Cruz Canevari**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Development of targeted bile acid LC-MS/MS platform for gut microbiome metabolites and metabolic disease analysis**

Authors: **Yan Ferreira Mundim Bricio, Hélio Fernandes da Rocha, Fernanda Bertão Scalco, Rafael Garrett and Marina Amaral Alves**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Dilute-and-shoot Analytical Method for determination of multimycotoxin in liver and meat products**

Authors: **Mateus Batista Gomes, Eliene Alves dos Santos, Eugênia Azevedo Vargas, Gabriel Barros de Oliveira, Rafael Pissinatti and Mary Ane Gonçalves Lana**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Direct analysis of seized samples by PS-MS: identification and retest of synthetic drugs**

Authors: **Fabiana de Moura, Mariana Cristine Coelho Diniz, Yuri Machado, José Coelho Neto and Evandro Piccin**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Discovery of Chagas disease urinary biomarkers during the acute and chronic phase in a murine model**

Authors: **Gilberto Santos de Oliveira, Rogerio Silva do Nascimento, Verônica Feijoli Santiago, Rebeca Kawahara, Janaina Macedo da Silva, Livia Rosa Fernandes, Cláudio Romero Farias Marinho, Martin Røssel Larsen, José Maria Alvarez Mosig and Giuseppe Palmisano**

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# CERTIFICATE

The communication entitled **DNA methylation triggers changes in the proteome responses associated with sugarcane somatic embryogenesis**

Authors: **Lucas do Espirito Santo Gomes, Lucas Rodrigues Xavier, Vanildo Silveira and Vitor Batista Pinto**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Doxazosin degradation - TiO<sub>2</sub> photocatalytic versus gamma irradiation degradation**

Authors: **Polonca Trebse, Mojca Bavcon Kralj, Tjasa Griessler Bulc and Albert Lebedev**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Dried urine on filter paper as an alternative sample for Pompe disease screening by LC-HRMS/MS**

Authors: **Hygor Marcos Ribeiro de Souza, Flávia Ferreira de Carvalho Marques, Fernanda Bertão Scalco and Rafael Garrett**

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# CERTIFICATE

The communication entitled **Dynamics of peripheral blood mononuclear cell proteome after heterologous vaccination with CoronaVac and BNT162b2**

Authors: **Jackeline Yuka Hayashi, Jackson Gabriel Miyamoto, Lucas Vasconcelos Soares Costa, Olívia Fonseca Souza, Giuseppe Gianini Figueiredo Leite, Reinaldo Salomao, Ana Flavia Popi, Isaias Glezer, Richard Hemmi Valente and Alexandre Keiji Tashima**

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# CERTIFICATE

The communication entitled **Early Alterations in the Bioactive Lipid Pattern in Human Kidney Cells Subjected to Ischemia by LC-HRMS/MS: A Preliminary Study of New Biomarkers for Kidney Diseases**

Authors: **GLORIA MARIA RAMALHO SOARES GRELLE, Marcelo Einicker Lamas and Rafael Garrett**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Effect of microporous membrane and culture medium on endogenous content of ethylene, CO<sub>2</sub>, polyamines and proteomic profile during *in vitro* germination of *Dalbergia nigra* (Vell.) ex Benth. (Fabaceae)**

Authors: **Renan Carrari dos Santos, Rosana Gobbi Vettorazzi, Vitor Batista Pinto, Edinaldo de Oliveira Alves Sena, Jurandi Gonçalves Oliveira, Eliemar Campostrini, Vanildo Silveira and Claudete Santa-Catarina**

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# CERTIFICATE

The communication entitled **Effect of RNA later storage of tissues on the abundance of amino acids and acylcarnitines determined by tandem mass spectrometry**

Authors: **Junier Marrero Gutiérrez, João Pedro G. Cirino, Danilo Cardoso de Oliveira, Nicole Marino Granado, Alex Aparecido Rosini Silva and Andreia de Melo Porcari**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Effect of short-term weathering on the molecular-level chemical composition of crude oils in contact with aquatic environments**

Authors: **Jhonattas de Carvalho Carregosa, Julian Eduardo Ballen Castiblanco, Tarcísio Martins Santos, Jandyson Machado Santos and Alberto Wisniewski Jr**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **ELECTROSPRAY ORBITRAP MASS SPECTROMETRY COMBINED WITH MULTIVARIATE ANALYSIS TO EVALUATE ULTRA-LOW SULFUR DIESEL STABILITY**

Authors: **Deborah Victoria Alves de Aguiar, Jussara Valente Roque, Leomir Aires Silva de Lima, IRIS MEDEIROS JUNIOR, Helineia Oliveira Gomes, Vitor Mendes de Oliveira, Luiz Henrique Keng Queiroz Júnior and Boniek Gontijo Vaz**

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# CERTIFICATE

The communication entitled **Elemental biliary analyses in two endangered rays, the Brazilian Guitarfish and Rio Skate, from Southeastern Brazil**

Authors: **Regina Fonsêca de Almeida, Amanda Pontes Lopes, João Victor Meirelles Leite, Marcelo Vianna, Tatiana Dillenburg Saint Pierre and Rachel Ann Hauser-Davis**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Endocannabinoid system impact on the proteomic profile of neural cells: implications in schizophrenia**

Authors: **Giuliana da Silva Zuccoli, Livia Ramos da Silva, Valeria de Almeida, Victor Corasolla Carregari, Antonio Waldo Zuardi, JAIME EDUARDO CECILIO HALLAK, José Alexandre de Souza Crippa and Daniel Martins-de-Souza**

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# CERTIFICATE

The communication entitled **Ensuring the analytical confidence of FT-ICR MS data in petroleomics**

Authors: **Jussara Valente Roque, Danielle Mitze Muller Franco, Taynara Rodrigues Covas, Lidya Cardozo da Silva, Luiz Henrique Keng Queiroz Júnior and Boniek Gontijo Vaz**

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# CERTIFICATE

The communication entitled **ESI-MS as a tool for understanding the performance of Z- and E-synapinic acids as MALDI matrices at molecular level: Study of complexes with carbohydrates.**

Authors: **Rosa ERRA BALSELLS, Tobias SCHMIDT DE LEON, MARIA LAURA SALUM, MARIA EUGENIA MONGE, Yasuyuki Matsushita and Kazuhiko Fukushima**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluating magnetic nanoparticles as sorbents to dispersive solid phase extraction (dSPE) in the detection of cannabinoids by LC-MS/MS.**

Authors: **PATRICIA DE SOUZA SCHWARZ, Sarah Eller and Tiago Franco de Oliveira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of apolipoprotein expression profile during experimental infection by *Schistosoma mansoni* in the BALB/c mouse**

**Authors: Lara Geralda Magela dos Santos Vieira, Gustavo Gonçalves Silva, Camilo Elber Vital and William de Castro Borges**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of blood serum metabolite extraction protocols for optimization of LC-MS/MS analysis aiming at biomarker discovery**

Authors: **Mariana Silveira Marques, Patrick Ferreira, Thales F. D. Pereira and Alessandra Sussulini**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of cortisol in dogs by liquid chromatography coupled to mass spectrometry**

Authors: **Bruna Brito, Gabriel Reis Alves Carneiro, Andressa Cristina dos Santos Marques, Rafael Pessoa Campello Queiroz, Henrique Marcelo Gualberto Pereira and Monica Costa Padilha**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of exposure of polybrominated diphenyl ethers in puerperal women to in Rio de Janeiro city**

Authors: **Julio Cesar Simões Rosa, Sergio Rabello Alves, Ana Cristina Simões Rosa, Eline Gonçalves Simões, Thelma Pavesi, Vanessa Emídio Dabkiewicz and Tatyane Pereira dos Santos**

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# CERTIFICATE

The communication entitled **Evaluation of filtration agents efficiency in drinking water by Mass Spectrometry methods**

Authors: **Gabriel Matias da Silva, Gustavo Guerreiro Candido Soares, Ana Isabela Pianowski Salussoglia, Jose Mauricio Rosolen and Luiz Alberto Beraldo de Moraes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of the stability of pyrethroid and anilinopyrimidine pesticides in wine using liquid chromatography coupled to tandem mass spectrometry**

Authors: **Ana Paula Ferreira de Oliveira, José Ailton Gonçalves and Isabela da Costa César**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of the use of dried urine microsampling for application in clinical metabolomics**

Authors: **Marina Amaral Alves, Yasmin Pestana Souza, Hélio Fernandes da Rocha, Fernanda Bertão Scalco and Rafael Garrett**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of two statements methods by TD-GC-MS/TOF to BVOCs concentrations above the Amazon canopy**

Authors: **Beatriz Soto Rovelo, CAROLINE KAKO OSTERMANN, Jonathan Williams, BRUNO TAPPIZ, Nora Zannoni, Alex Guenther and Oscar Vega-Bustillos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Evaluation of vector control workers in Rio de Janeiro State for organochlorine pesticides in blood plasma by CG-MS/MS.**

Authors: **Heldis Beloni de Oliveira, Tatyane Pereira dos Santos, Ariane Leites Larentis, Leandro Vargas Barreto de Carvalho, Ana Paula das Neves Silva, Jordana Araújo Gonçalves, Eline Gonçalves Simões, Sergio Rabello Alves and Ana Cristina Simões Rosa**

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# CERTIFICATE

The communication entitled **Evaluation of yellow fever influence on patient's protein profile by Trapped Ion Mobility Mass Spectrometry**

Authors: **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 and Matthew Willetts**

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# CERTIFICATE

The communication entitled **Expanding Urinary Metabolite Annotation through Integrated Mass Spectral Similarity Networking**

Authors: **Fausto Carnevale Neto and Daniel Raftery**

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# CERTIFICATE

The communication entitled **Exploring Saliva Metabolomics to Investigate Biomarkers for Wilson Disease**

Authors: **Julia Lima Ribeiro Ferro, Thais de Assis Lopes, Juliana Magalhães de Oliveira, Alex Castro, Juliana Goldbaum Crescente, Eduardo Luiz Rachid Cançado and Regina Vincenzi Oliveira**

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# CERTIFICATE

The communication entitled **Exploring the Oxidative Stress Implications on Cardiac Cells: a Multiplatform Metabolomics Study**

Authors: **Alan Gonçalves Amaral, Monica Força Lima, Isabela Aparecida Moretto, Flávia da Silva Zandonadi, Hans Rolando Zamora Obando, Francisco Javier Rupérez, Coral Barbas, Regina Vincenzi Oliveira, Aline Mara dos Santos and Ana Valéria Colnaghi Simionato**

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# CERTIFICATE

The communication entitled **Exploring the phenolic diversity of seven cereals and their coproducts by MS-based metabolomics**

Authors: **Luciana Ribeiro da Silva Lima, Millena C. Barros Santos, Álvaro Fernández Ochoa and Mariana Simões Larraz Ferreira**

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# CERTIFICATE

The communication entitled **Exploring the proteomic profile of patients affected by different strains of SARS-CoV-2 in Amazonas**

Authors: **Ketlen Christine Ohse, Cláudia Patrícia Mendes de Araújo, Carolina Moresi Vieira, Sofia Angiole Cavalcante, Felipe Gomes Naveca, Fernanda Nascimento de Oliveira, Valéria Silva Santos, João Hugo Abdalla Santos, Michel Batista, Amanda Caroline Camillo de Andrade, Marlon D M Santos, Juliana de Saldanha da Gama Fischer, Paulo Costa Carvalho and Priscila Ferreira de Aquino**

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# CERTIFICATE

The communication entitled **First study of saponins from the roots of *Quillaja brasiliensis* by liquid chromatography electrospray ionisation ion trap mass spectrometry**

Authors: **Federico Wallace, Zohra Bennadji, Fernando Ferreira and Cristina Olivaro**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Fish oil supplementation during pregnancy reprograms maternal high-fat diet-induced liver endocannabinoid system changes in neonate rats**

Authors: **Larissa de Brito Fassarella, Camilla P. Dias-Rocha, Jessika Geisebel O. Neto, Mariana Macedo de Almeida, Gustavo Ramalho Cardoso dos Santos, Henrique Marcelo Gualberto Pereira, Carmen Cabanelas Pazos de Moura and Isis Hara Trevenzoli**

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# CERTIFICATE

The communication entitled **Forensic environmental geochemistry by petroleomics to investigate the frequent oil spills reaching the coast of Brazil since 2019**

Authors: **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 and Laercio Lopes Martins**

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The communication entitled **Fragmentation study of UGI-4CR compounds SARS-CoV-2 M<sup>pro</sup> inhibitor candidates**

Authors: **Gustavo Barbosa dos Reis and Diogo de Oliveira Silva**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS analysis of rosemary (*Salvia rosmarinus*) essential oil obtained by microwave-assisted hydrodistillation and steam distillation from plants cultivated in Santander (Colombia)**

Authors: **Brayann Yessid Martínez, Lady Johanna Sierra, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS analysis of the essential oils and their fractions, obtained from *Turnera diffusa* grown in Santander Colombia**

Authors: **Cesar Alberto Garcia Quintero, Lady Johanna Sierra, Elena E. Stashenko and Jairo René Martínez**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS and GC/FID study of the essential oil distilled from thyme cultivated in Santander, Colombia**

Authors: **Sebastián Sepúlveda Ortega, Karen J. Ramírez, Lady J. Sierra, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS and LC/MS study of essential oil and extracts isolated from geranium (*Pelargonium graveolens*)**

Authors: **Angie Katherine Romero Hernández, Lady Johanna Sierra, Elena E. Stashenko and Jairo René Martínez**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS and LC/MS study of the chemical composition of essentials oils and extracts isolated from *Hyptis colombiana* (Lamiaceae).**

Authors: **Sheila Bridget Beltrán Perez, Lady Johanna Sierra, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS chemical characterization of *Minthostachys mollis* (Lamiaceae) essential oil**

Authors: **Edwin Fernando Rugeles Garzón, Juan Camilo Henríquez Sanabria, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS study of *Steiractinia aspera* essential oils obtained from different crops in Santander (Colombia) by steam distillation**

Authors: **Valeria Bellón Monsalve, Juan Camilo Henríquez Sanabria, Johanna Catalina Rosero Rosero, Elena E. Stashenko and Jairo René Martínez**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **GC/MS study of essential oils distilled from different parts of *Piper aduncum* species**

Authors: **Darlyng Fernanda Poveda Carreño, Rogerio Alejandro Sebastian Saavedra Barrera, Elena E. Stashenko and Jairo René Martínez**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Geochemical forensic evaluation of samples from the oil spill on the coast of Pernambuco, Brazil occurred in 2019**

Authors: **Ignes Regina dos Santos, Isabelle Farias Silva de Lima, Rayane Maria do Nascimento, Jhonattas de Carvalho Carregosa, Alberto Wisniewski Jr., Alex Souza Moraes and Jandyson Machado Santos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Glycosylation links diabetes and cancer**

Authors: **Adriane R. Todeschini**

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# CERTIFICATE

The communication entitled **H/D Pooling of Benzoyl Derivatives: Improvement of quantitative analysis and lipidomic profiling using RP-UHPLC/MS**

Authors: **Ondrej Peterka, Robert Jirasko, Zuzana Vařková, Jakub Idkowiak and Michal Holcapek**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Halogenated POPs and relative emerging contaminants non-targeted quantitative screening by GC-APCI-HRMS Trapped Ion Mobility**

Authors: **fan yang, Yann Aminot, Catherine Munsch and Hugues PREUDHOMME**

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# CERTIFICATE

The communication entitled **Helium assisted Desorption and Ionization**

Authors: **Andre R Venter, Roshan Javanshad, Rajendra Panth, Tara Lynne Maser and Bincy Binny**

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# CERTIFICATE

The communication entitled **How Variations in Structural Lipids Impact Scalp Hair Curliness**

Authors: **Michelle Mukonyora, Henry Adeola and Nonhlanhla Khumalo**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Hyperglycemia leads to aberrant N-glycosylation in colon cancer cells by increasing the pool of activated monosaccharides**

Authors: **Hector Franco Barbosa Rhault Loponte, Isadora Araújo Oliveira, Bruno Costa Rodrigues, Rodrigo Nunes da Fonseca, Ronaldo Mohana-Borges, Frederico Alisson Silva, Wagner Barbosa Dias and Adriane R. Todeschini**

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The communication entitled **Hyperglycemic culture media is detrimental to oviductal epithelial cell submitted to *in vitro* system cultured**

Authors: **Patricia Kubo Fontes, Camila Bruna de Lima, Erika Cristina dos Santos, Célio Fernando Figueiredo Angolini and Marcella Pecora Milazzotto**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Identification of multi-omic molecular patterns using machine learning**

Authors: **Licia C. Silva-Costa, Victor Corasolla Carregari, Bradley Joseph Smith and Daniel Martins-de-Souza**

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The communication entitled **IDENTIFICATION OF PROTEINS INVOLVED IN ALUMINUM ACCUMULATION AND METABOLISM IN THE NATIVE CERRADO SPECIES *QUALEA DICHOTOMY* (VOCHYSIACEAE).**

Authors: **NATALIA CURY**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Identification of STK (PF3D7\_1423600) kinase substrates in *Plasmodium falciparum* through phosphoproteomics and bioinformatics reveals potential targets for parasite nutrient uptake**

Authors: **Julio Cesar Monteiro Junior, Lívia Rosa Fernandes, Arne Krüger, Franciarli da Silva Paz, Vinicius de Moraes Gomes, Lays Adrienne Mendonça Trajano Silva, Giuseppe Palmisano and Carsten Wrenger**

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The communication entitled **Imaging Mass Spectrometry of lipids in brains of the offspring of pregnant female mice infected with Zika virus and chronically exposed to saxitoxin**

Authors: **Tiago Gomes, Raissa Rilo Christoff, Patricia Pestana Garcez, Cristiana Santos de Macedo and Flavio Alves Lara**

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The communication entitled **Implications of spikes in Free Induction Decay (FID) in mass spectra of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry (FT-ICR MS)**

Authors: **Luiz Henrique Keng Queiroz Júnior, Taynara Rodrigues Covas, Danielle Mitze Muller Franco and Boniek Gontijo Vaz**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Influence of different extractor solvents on the migration studies of PCRPE packaging compounds: A GCMS Principal Component Analysis**

Authors: **LETÍCIA BONANCIO CERQUEIRA**

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The communication entitled **Influence of dry process on color, antioxidant activity and presence of pesticide residues detected by LC-MS/MS in pineapple crown flour**

Authors: **Talita Braga de Brito Nogueira, Ana Elizabeth Cavalcante Fai and Mariana Simões Larraz Ferreira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Insights to the differentiation of Banisteriopsis caapi varieties in ayahuasca samples using UHPLC-MS**

Authors: **Taynara Simão Matos, Alex Aparecido Rosini Silva, Flávia da Silva Zandonadi, Andreia de Melo Porcari and Alessandra Sussulini**

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# CERTIFICATE

The communication entitled **Integrating SERS and PS-MS on a single substrate for the identification and confirmation of psychotropic substances in alcoholic beverages**

Authors: **Marina Jurisch, Mariana Ramos Almeida and Rodinei Augusti**

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The communication entitled **Integrative proteomics and metabolomics analysis reveals novel Arginase-like function regulating lipids biosynthesis in microalgae**

Authors: **Láis Albuquerque Girdali, 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 and Flavia Vischi Winck**

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The communication entitled **Integrative transcriptomics and proteomics reveal regulatory factors involved in embryogenic competence acquisition during somatic embryogenesis of sugarcane**

Authors: **Vitor Batista Pinto, Lucas Rodrigues Xavier, Pedro Marcus Pereira Vidigal, Roberta Pena da Paschoa and Vanildo Silveira**

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# CERTIFICATE

The communication entitled **Interplay between UPR, protein glycosylation and ERAD**

Authors: **Vinicius de Moraes Gomes, Simon Mule, Deivid Martins Santos, Bruno Rafael Barboza, Livia Rosa Fernandes and Giuseppe Palmisano**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Isobaric labeling-based Quantitative Proteomics Interrogates Changes in *Aedes aegypti* proteins during *Wolbachia pipientis* and Zika Virus infection**

Authors: **Luís Felipe Costa Ramos, Michele Martins, Jimmy Rodriguez Murillo, Gilberto Barbosa Domont, Danielle Maria Perpétua de Oliveira, Fábio César Sousa Nogueira, Rafael Maciel-de-Freitas and Magno Junqueira**

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# CERTIFICATE

The communication entitled **Laser ablation electrospray ionization mass spectrometry imaging as a new tool for accessing patulin diffusion in mold-infected fruits**

Authors: **GESIANE DA SILVA LIMA, Gabriel Franco Santos, Ruver Rodrigues Feitosa Ramalho, Deborah Victoria Alves de Aguiar, Jussara Valente Roque, Lanaia Ítala Louzeiro Maciel, ROSINEIDE COSTA SIMAS, Igor Pereira and Boniek Gontijo Vaz**

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# CERTIFICATE

The communication entitled **Laser desorption ionization and collision-induced dissociation experiments for the characterization of island and archipelago-type asphaltenes**

Authors: **Lidya Cardozo da Silva, Jeferson Valencia Dávila, Felipe Pereira Fleming, Marianny Yajaira Combariza Montanez and Boniek Gontijo Vaz**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **LC-MS analysis of phenolic compounds from *Dianthus caryophyllus* spp. flowers and study of their antioxidant activity by HPLC-ABTS<sup>++</sup>**

Authors: **Lady Johanna Sierra, Jesica Julieth Mejía Medina, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **LC-MS Screening of potential inhibitors of proteases (3CL<sup>pro</sup> and PL<sup>pro</sup>) and spike protein of SARS-CoV-2 virus: bioprospecting five *Siparuna* species using chemometric tools**

Authors: **Diégina Araújo Fernandes, Brendo Araujo Gomes, Mariana Freire Campos, Larrisa Esteves carvalho Constant, Beatriz Albuquerque Custódio de Oliveira, Stephany da Silva Costa, Giovanna Barbosa Frensel, Suzana Guimarães Leitão, Diego Allonso and Gilda Guimarães Leitão**

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# CERTIFICATE

The communication entitled **LC-MS/MS proteomic tools to achieve the behavior of gluten proteins in raw, cooked and extruded wheat products**

Authors: **Thais de Oliveira Alves, Sabrina Maria Geisslitz, Katharina Anne Scherf, Cristina Yoshie Takeiti and Mariana Simões Larraz Ferreira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **LC-Orbitrap MS targeted analysis of urinary glycosaminoglycans combined with untargeted metabolomics for the investigation of mucopolysaccharidoses**

Authors: **Clarisse Lacerda Torres, Fernanda Bertão Scalco, Maria Lúcia Costa Oliveira and Rafael Garrett**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **LC/MS analysis of phenolic compounds from *Ocimum campechianum* (Lamiaceae) extracts**

Authors: **Juan Josafat Tarazona Fiallo, Cristian A. Oliveros, Jairo Rene Martinez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **LC/MS chemical characterization of the hydroethanolic extracts obtained from *Scutellaria* (Lamiaceae) plants and study of their antioxidant activity**

Authors: **Silvia Marcela Porras Triana, Lady Johanna Sierra, Elena E. Stashenko and Jairo René Martínez**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **LC/MS study of *Hypericum carinosum* (Hyperaceae) hydroethanolic extract, obtained from post-distilled plant material**

Authors: **Felix Camilo Muñoz, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **LC/MS study of *Lippia origanoides* (Verbenaceae) supercritical CO<sub>2</sub> extract and its fractions, obtained from post-distilled plant material**

Authors: **Silvia Juliana Muñoz, Felix Camilo Muñoz, Jairo René Martínez and Elena E. Stashenko**

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The communication entitled **LC/MS study of *Solanum crotonifolium* (Solanaceae) extracts**

Authors: **Laura Valentina Duarte Velandia, Jesica Julieth Mejía Medina, Jairo René Martínez and Elena E. Stashenko**

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The communication entitled **LC/MS study of ergoline alkaloids isolated from *Argyrea nervosa* (Convolvulaceae) seeds**

Authors: **Hector Duvan Uribe Vargas**

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# CERTIFICATE

The communication entitled **Low-temperature plasma mass spectrometry (LTP-MS) coupled to a temperature-controlled heated sample holder for the analysis of gunpowders (GPs)**

Authors: **Mariana Cristine Coelho Diniz, Luísa Guerra Rosa, Fabiana de Moura, Matheus Campos Quintão, Yuri Machado, Rogério Araújo Lordeiro, Rodinei Augusti and Mariana Ramos Almeida**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **LSD quantification and identification of metabolites in *C. elegans* by Ultra-High Performance Liquid Chromatography coupled with High Resolution Mass Spectrometry**

Authors: **Christiane Martins de Vasconcelos Silveira, Vanessa Farelo dos Santos, Isis Moraes Ornelas, Henrique Marcelo Gualberto Pereira and Magno Junqueira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **MALDI-TOF MS and machine learning for the analysis of molecular patterns for prognosis of COVID-19**

Authors: **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 and Giuseppe Palmisano**

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# CERTIFICATE

The communication entitled **Mapping metabolites and microbes on ascidians to investigate symbiotic relationships**

Authors: **Anelize Bauermeister, Luciana Costa Furtado, Pablo Suarez, Eduarda Antunes Moreira, Andres Maurício Caraballo Rodriguez, Helena Mannocho Russo, Tito Lotufo, Francisca Andréa da Silva Oliveira, Norberto Peporine Lopes, Alejandra Prieto Davó, Pieter Dorrestein and Leticia Veras Costa-Lotufo**

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# CERTIFICATE

The communication entitled **Mass spectrometry and Chemical ecology laboratory - MS-CELL**

Authors: **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 and Elaine de Moura Macedo1**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Mass Spectrometry and Machine Learning in Compound Identification - The Case of SARS-CoV-2**

Authors: **Leonardo S. Santos, Fabiane Manke Nachtigall, Alfredo Pereira and Oleksandra S. Trofymchuk**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Mass spectrometry approaches applied to the characterization the oligomeric and oxidation state of the anticancer lunasin peptide**

Authors: **Stephanny Miranda Alves de Souza, Dário Eluan Kalume, Luis Mauricio Trambaioli da Rocha e Lima and Theo Luiz Ferraz de Souza**

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# CERTIFICATE

The communication entitled **Mass Spectrometry as a Quality Verification Tool in Automotive Lubricant Oils**

Authors: **Caroline Pais de Carvalho, Adriano Reis José da Silva, ROSINEIDE COSTA SIMAS and MARCOS NOGUEIRA EBERLIN**

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# CERTIFICATE

The communication entitled **Mass spectrometry as a taxonomy tool. Differentiation of frog species using their peptidomes**

Authors: **Tatiana Samgina, Irina Vasileva, Polonca Trebse and Albert Lebedev**

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# CERTIFICATE

The communication entitled **Mass spectrometry in environmental studies in the Russian Arctic**

Authors: **Dmitrii M. Mazur, Latkin Tomas, Artaev Vyatcheslav, Nikolai Ul'yanovskii, Dmitrii Kosyakov and Albert Lebedev**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Mechanisms of disinfection by-products formation in water treatment**

Authors: **Dmitrii M. Mazur, Artaev Vyatcheslav, Nikolai Ul'yanovskii, Dmitriy S. Kosyakov and Albert Lebedev**

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# CERTIFICATE

The communication entitled **Menopause modifies the effect of depression on plasma lipids**

Authors: **Adriana Pereira de Souza, Maria Fernanda Naufel, Amanda Paula Pedroso, Valter Tadeu Boldarine, Helena Hachul, Lila Missae Oyama, Eliane Beraldi Ribeiro, Edson Guimarães Lo Turco and Monica Marques Telles**

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The communication entitled **MetaboHUB versus DEsCriBe: a broad investigation of phytochemical diversity in leaves and roots of *Brassica napus***

Authors: **Millena C. Barros Santos, Cédric Cassan, Sylvain Prigent, Josep Valls, Sophie Colombie, Yves Gibon, Alain Bouchereau, Antoine Gravot and Pierre PETRIACQ**

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The communication entitled **Metabolic alterations caused by Gestational Diabetes Mellitus in the Rectus Abdominal Muscle in Gestational Diabetic-induced Myopathy**

Authors: **FERNANDA CRISTINA BERGAMO ALVES, Rafael Guilen de OLiveira, David Rafael Abreu Reys, Gabriela Garcia, Carolina Neiva Frota de Carvalho, Angelica Mercia Pascon Barbosa and Marilza Vieira Cunha Rudge**

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# CERTIFICATE

The communication entitled **Metabolic alterations in FABP4-deleted murine macrophages infected by *Leishmania* spp**

Authors: **Andre Luiz Melo Camelo, Mariana Borges Costa Brioschi, Aline Cristina Dias, Ayra Mahalla de Souza, Hans Rolando Zamora Obando, Danilo Ciccone Miguel and Ana Valéria Colnaghi Simionato**

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The communication entitled **Metabolic effect of drought stress on *Elaeis guineensis* leaves using UHPLC-MS and multivariate analysis**

Authors: **Jorge Candido Rodrigues Neto, Leticia Rios Vieira, Tallyta Santos Teixeira, José Antônio de Aquino Ribeiro, Manoel Teixeira Souza Júnior and Patricia Verardi Abdelnur**

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The communication entitled **Metabolic fingerprinting applied to unravel the impact of germination on the phenolic profile of *Sorghum bicolor***

Authors: **Carolina Thomaz dos Santos D'Almeida, Lynda Abdelbost, Marie-Hélène Morel, L.C. Cameron, Hamza Mameri and Mariana Simões Larraz Ferreira**

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The communication entitled **Metabolite Regimen in Chronic Chagasic Cardiomyopathy and Idiopathic Dilated Cardiomyopathy: new insights into the molecular pathogenesis of advanced heart failure**

Authors: **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 and Aline Maria Araújo Martins**

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The communication entitled **METABOLOMIC ANALYSIS OF GONADS AND LIVER OF FISH EXPOSED TO EFFLUENT OF PULP AND PAPER MILLS.**

Authors: **Carlos H L Soares and Ivana Eunice Baptista**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Metabolomic and Transcriptomic integrated analysis of Wilms Tumour**

Authors: **Pedro Henrique Godoy Sanches, Bruna Maria de Sá Pereira, Álex Aparecido Rosini Silva, Danilo Cardoso de Oliveira, Beatriz de Camargo, Mariana Maschietto and Andreia de Melo Porcari**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Metabolomic Characterization of Agronomic Interesting *Bacillus* Strains**

Authors: **Laís Castro de Carvalho, Fernanda Silva Ribeiro, Isabella Takahashi Kitano, João Vitor Butzge and Célio Fernando Figueiredo Angolini**

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The communication entitled **Metabolomics applied to the study of anxiety**

Authors: **Camila Maiara Rocha Teles and Alessandra Sussulini**

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# CERTIFICATE

The communication entitled **Method development and validation to identify and quantify Vanillylmandelic acid (VMA), Homovanillic acid (HVA), and 5-hydroxyindoleacetic acid (5-HIA), biogenic amines related to carcinoid tumors and neuroblastomas, by LC-MS/MS.**

Authors: **Luiz Carlos Fialho Junior, Breno Frederico Pereira Paulo, Vanessa Gonçalves Milagres and DANIELLE ALVES GOMES ZAULI**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Microwave-assisted digestion for cobalt quantification as diethyldithiocarbamate derivatives in human urine by LC-MS: an application in doping control**

Authors: **Vanessa Farelo dos Santos, Gabriel Reis Alves Carneiro, Bernardo Ferreira Braz, Ricardo Erthal Santelli, Sérgio de Paula Machado and Henrique Marcelo Gualberto Pereira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Miniaturized extraction method for the determination of pesticide residues in human plasma using GC-Q-Orbitrap.**

Authors: **Cleusa Fatima Zanchin, Marta Vargas Perez, Mireya Granados Povedano, Roberto Romero González, Antonia Garrido Frenich, Renato Zanella and Osmar Damian Prestes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Molecular characterization of Calu-3 cells from submerged to Air-liquid interface culture: an *in vitro* model for lung infections**

Authors: **Deivid Martins Santos, Simon Mule, Claudia Blanes Angeli, Antonio Moreira Marques Neto, Vinicius de Moraes Gomes, Janaina Macedo da Silva, Cláudio Romero Farias Marinho, Livia Rosa Fernandes and Giuseppe Palmisano**

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# CERTIFICATE

The communication entitled **Molecular evolution of the aquatic adaptations in marine mammals: an analytical study of the kidney proteomics-based mass spectrometry**

Authors: **Camila Morais Hime, Maurício Tavares, Raphaela Menezes de Oliveira, Salvatore Siciliano and Aline Maria Araújo Martins**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Molecular networking for annotation of new limonoids from the *Swietenia macrophylla* King leaves**

Authors: **José Diogo Evangelista Reis, Alice Rhelly Veloso Carvalho, Paulo Wender Portal Gomes, Paulo Roberto da Costa Sá, Sônia Pamplona, Abraão Muribeca, Consuelo Yumiko Yoshioka e Silva and Milton Nascimento da Silva**

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# CERTIFICATE

The communication entitled **Monoterpene indole alkaloids from *Psychotria densicostata* leaves by HPLC-DAD-ESI-MS/MS**

Authors: **Virginia Garcia Correia, Victor Freitas de Jesus, Jéssica Oliveira Costa, Rodolfo Souza Barboza, Mario Gomes, Ligia Maria Marino Valente and Marcelo Raul Romero Tappin**

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# CERTIFICATE

The communication entitled **Multiclass Analytical Method for Pesticide and Mycotoxin Analysis in Malt, Brewers' Spent Grain, and Beer: Development, Validation, and Application**

Authors: **nilsrael alves pires, Mauro Lucio Gonçalves De Oliveira, José Ailton Gonçalves and Adriana Ferreira Faria**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Multiomnic Approach in the Study of Virulence Factors**

Authors: **Mayara de Mattos Lacerda de Carvalho, Livia Carvalho Barbosa, Cedric Delpont, Pierre van Antwerpen, Paulo Mascarello Bisch and Leticia Miranda Santos Lery**

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The communication entitled **Multiomics Pipeline Reveals Alpha-Ketoglutarate as a Countermeasure for Organophosphate Poisoning**

Authors: **Phillip M Mach**

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# CERTIFICATE

The communication entitled **Multiresidue analysis of pesticides in drinking water by solid phase extraction and gas chromatography with tandem mass spectrometry.**

Authors: **Ruan Victor Ferreira Soares and Lilian Mendonça Penna**

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# CERTIFICATE

The communication entitled **Multiresidues pesticides routine analysis in vegetable samples by UHPLC-MS/MS using Thermo Scientific Pesticide Explorer Solutions Database**

Authors: **Graziela Andrade, Claudia M. Barbosa, Julio C. C. Silva and Sérgio H. Monteiro**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Multivariate optimization of Disposable Pipette Extraction (DPX) procedure for drugs of abuse analysis in human breast milk**

Authors: **Wilson José Ramos Santos Junior, Bruno Ruiz Brandão da Costa and Bruno Spinosa De Martinis**

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The communication entitled **Mycotoxins Profiles in Wheat**

Authors: **Cinthia Pendás, Alejandra Rodriguez-Haralambides, Agustina Muela and Lucia Pareja**

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# CERTIFICATE

The communication entitled **Neuroprotective and anti-inflammatory biomarkers discovered by untargeted metabolomics: UPLC-ESI-QTOF/MS study bioprospecting psychedelic and bioactive plants from endangered biomes in Brazil**

Authors: **Albert Katchborian Neto, Wanderleya Toledo dos Santos, Michael Murgu, Ana Cláudia Chagas Ladvoat, Danielle Ferreira Dias, Marisi Gomes Soares and Daniela Aparecida Chagas-Paula**

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The communication entitled **News approaches for enhancing the detection of neurotransmitters using the Katritzky reaction by PSI-MS and DESI-imaging**

Authors: **Lanaia Ítala Louzeiro Maciel, Ruver Rodrigues Feitosa Ramalho, Raul Izidoro Ribeiro, Mauro Cunha Xavier Pinto, Igor Pereira and Boniek Gontijo Vaz**

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The communication entitled **Non-target screening of Emerging organic pollutants and trace elements in marine sediments from the Eastern Mediterranean Lebanese coast before the blast in 2020**

Authors: **MARIAM ZAYTER, Hugues PREUDHOMME and Celine Mahfouz**

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The communication entitled **Normalization of targeted proteomics data for determining the relative abundance of calpain variants in different evolutive forms of *T. cruzi***

Authors: **Marcelle Almeida Caminha, Giselle Villa Flor Brunoro, Marlon D M Santos, Paulo Costa Carvalho, Flávia Nader Motta, Jaime Santana, Richard Hemmi Valente and Rubem Figueiredo Sadok Menna-Barreto**

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The communication entitled **Novel Principle of Designing Isotope Ratio Magnet Mass-spectrometers.**

Authors: **Nikolay Gall, Ivan Gromov, Nikolay Blashenkov, Artem Diachenko, Olga Bekiaeva, Lidia Gall and Viacheslav Sachenko**

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The communication entitled **On-line HPLC-ABTS<sup>+</sup> screening and LC/MS analysis of hydroethanolic extract obtained from Achyrocline satureioides (Asteraceae) plants, collected in Santander, Colombia.**

Authors: **Sheylla Tatiana Reyes Atuesta, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Online SPE-LC-HRMS of native urine for screening of doping compounds**

Authors: **Gustavo Ramalho Cardoso dos Santos, Gabriel Reis Alves Carneiro and Henrique Marcelo Gualberto Pereira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Optimization of Methodologies for Analyses of Cell Proteomes**

Authors: **Francielle Aguiar Gomes, Graziella Eliza Ronsein and Mariana Pereira Massafra**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Optimization of serum sample derivatization process by Design of Experiments for GC-MS based metabolomics**

Authors: **Hans Rolando Zamora Obando, Victória de Paula Andrade, Andre Luiz Melo Camelo, Flávia Bernardo dos Santos, Aline Cristina Dias and Ana Valéria Colnaghi Simionato**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Optimizations on Lithium ion exchange separation and isotopic measurements**

Authors: **Juliana Ikebe Otomo, Máise 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 and Oscar Vega-Bustillos**

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# CERTIFICATE

The communication entitled **Oral squamous cell lipid differentiation in gingiva tissue by mass spectrometry**

Authors: **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 and Andrea Rodrigues Chaves**

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# CERTIFICATE

The communication entitled **Paper Spray Mass Spectrometry applied on lactose analysis of clarified butter samples**

Authors: **Túlio Miranda Sepulveda, Brenda Lee Simas Porto and Rodinei Augusti**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **PARALLEL VALIDATION OF A GREEN-SOLVENT EXTRACTION METHOD AND QUANTITATIVE ESTIMATION OF MULTI-MYCOTOXINS IN STAPLE CEREALS USING LC-MS/MS**

Authors: **Sefater Gbashi, Patrick Njobeh, Ntakadzeni Madala, Marthe De Boevre, Victor Kagot and Sarah De Saeger**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Penetration of thiabendazole in fruits by Laser Ablation Electropray Ionization (LAESI)**

Authors: **Gabriel Franco dos Santos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Performance of collagen-based matrices derived from Nile Tilapia Skin in a rat wound healing model: a proteomic approach**

Authors: **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 and José Luiz de Lima Filho**

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# CERTIFICATE

The communication entitled **Pesticide residues in honeybees by LC-MS/MS screening: Reported death incidents in honeybees in Brazil**

Authors: **Andrea Machado, Aroni Sattler and MARCOS NOGUEIRA EBERLIN**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Petroleomics to assess the temporal chemical modification of samples from the oil spill on the coast of Pernambuco in 2019**

Authors: **Isabelle Farias Silva de Lima, Iignes Regina dos Santos, Jhonattas de Carvalho Carregosa, Alberto Wisniewski Jr, Alex Souza Moraes and Jandyson Machado Santos**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **PHOTOREDUCTION AND PHOTOPHYSICAL CHARACTERIZATION OF HYDROXY-NITROBENZOIC ACIDS AS POTENTIAL UV MALDI MATRICES MALDI**

Authors: **Oscar Enrique Silva Rodriguez, Gabriela Petroselli, Hernán Bernardo Rodriguez and Rosa ERRA BALSELLS**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Physiological aspects and proteomic profile associated with the development and germination of seeds of *Paubrasilia echinata* Lam E. Gagnon, H. C. Lima & G. P. Lewis (Fabaceae)**

Authors: **Rosana Gobbi Vettorazzi, Tadeu dos Reis de Oliveira, Vanildo Silveira and Claudete Santa-Catarina**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Phytochemical profile and antiviral activity of ethanolic extract of *Costus arabicus* L. leaves**

Authors: **Alice Rhelly Veloso Carvalho, Ariane Coelho Ferraz, Marília Bueno da Silva Menegatto, Abraão de Jesus Barbosa Muribeca, Paulo Wender Portal Gomes, José Diogo Evangelista Reis, Sônia das Graças Santa R. Pamplona, Cintia Lopes de Brito Magalhães, Milton Nascimento da Silva and Consuelo Yumiko Yoshioka e Silva**

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# CERTIFICATE

The communication entitled **Pitfalls in steroid analysis by LC-MS/MS**

Authors: **Anna Sylvia Ferrari Marques, Atecla Nunciata Alves Lopes, Berenice Bilharinho de Mendonça and Helena Panteliou Lima Valassi**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Plasma metabolome predicts the response to neoadjuvant chemotherapy in women with breast cancer**

Authors: **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 and Andreia de Melo Porcari**

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# CERTIFICATE

The communication entitled **Plasma Metabolomic Profiling of Patients with Wilson Disease**

Authors: **Thais de Assis Lopes, Juliana Magalhães de Oliveira, Juliana Goldbaum Crescente, Eduardo Luiz Rachid Cançado and Regina Vincenzi Oliveira**

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# CERTIFICATE

The communication entitled **Plasma proteomic profile and immune response of patients with COVID-19**

Authors: **SAMILA NATIANE FERREIRA, Shana Priscila Coutinho Barroso, Jessica da Silva Oliveira, Carolina Lopes Silva Santos, Bruna Luísa Franco Fadel, Carolina Panis, Fábio César Sousa Nogueira, Cynthia Chester Cardoso and Luciana Pizzatti**

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# CERTIFICATE

The communication entitled **Plasma proteomic signature of Malaria infection during pregnancy reveals altered complement system activation**

Authors: **Verônica Feijoli Santiago, Jamille Gregório Dombrowski, Rebeca Kawahara, Livia 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 Ramirez, Martin Røssel Larsen, Cláudio Romero Farias Marinho and Giuseppe Palmisano**

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# CERTIFICATE

The communication entitled **Plasma proteomics study of children with multisystem inflammatory syndrome associated with COVID-19**

Authors: **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 and Gilberto B Domont**

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# CERTIFICATE

The communication entitled **Potential pancreatic anti-amyloid agents from Brazilian plants**

**Authors: Thamirys Silva da Fonseca, Mariana Freire Campos, Celimar S. Silva, Talita Pimenta do Nascimento, Aline Soares Silva, Fernanda Leitão, Rogélio Pereda-Miranda, Gilda Guimarães Leitão, Luís Maurício T. R. Lima and Suzana Guimarães Leitão**

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# CERTIFICATE

The communication entitled **Pre-validation of alternative method animal experimentation with precision cut liver slices by mass spectrometry**

Authors: **Carla Freitas, Thaís Rosa Marques dos Santos, Marize Campos Valadares, ROSINEIDE COSTA SIMAS and Eliana Martins Lima**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Prediction of potential inhibitors of 3CL<sup>pro</sup> and PL<sup>pro</sup> proteases and spike protein by LC-MS and chemometrics: bioprospecting *Lippia* species**

Authors: **Brendo Araujo Gomes, Thamirys Silva da Fonseca, Mariana Freire Campos, Larissa Esteves Carvalho Constant, Rayane da Cruz Albino, Beatriz Albuquerque Custódio de Oliveira, Stephany da Silva Costa, Giovanna Barbosa Frensel, Danilo Ribeiro de Oliveira, Gilda Guimarães Leitão, Diego Allonso and Suzana Guimarães Leitão**

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# CERTIFICATE

The communication entitled **Preliminary screening of Annonaceae species against *Leishmania* sp** by MS/MS Molecular Networking and *in vitro* assays

Authors: **Marcos Vinicius Toledo e Silva, Brendo Araujo Gomes, Fernanda de Lemos Fernandes de Assis, Thamirys Silva da Fonseca, Andreza Raposo Garcia, Renata Priscila Barros de Menezes, Igor de Almeida Rodrigues, Marcus Tullius Scotti and Suzana Guimarães Leitão**

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# CERTIFICATE

The communication entitled **Profiling of oligosaccharides and polysaccharides in alcoholic beverage using single quadrupole LC-MS**

Authors: **Luis Otávio Junqueira, Takanari Hattori, Natsuki Iwata, Hidetoshi Teraada and Yusuke Inohana**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Protein arginylation: A new key player in SARS-CoV-2 infection**

Authors: **Janaina Macedo da Silva, Livia 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 and Giuseppe Palmisano**

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# CERTIFICATE

The communication entitled **Protein phosphorylation networks drive the maintenance and expression of embryogenic competence in sugarcane callus by modulating transcriptional regulators and energy metabolism**

Authors: **Lucas Rodrigues Xavier, Vitor Batista Pinto, Felipe Astolpho Almeida, Claudete Santa-Catarina and Vanildo Silveira**

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# CERTIFICATE

The communication entitled **Protein Succinylation and Malonylation: Profiles in Schizophrenia and Antipsychotic Use**

Authors: **Bradley Joseph Smith and Daniel Martins-de-Souza**

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The communication entitled **Proteins and endogenous auxin contribute to the activation of meristematic-type cells during adventitious rooting initiation in micropropagated shoots of *Cedrela fissilis* Vell.**

Authors: **Yrexam Rodrigues de Souza Ribeiro, Victor Paulo Mesquita Aragão, Kariane Rodrigues de Sousa, Amanda Ferreira Macedo, Eny Iochevet Segal Floh, Vanildo Silveira and Claudete Santa-Catarina**

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# CERTIFICATE

The communication entitled **Proteolysis: an overseen protein post-translational modification and its impact on endogenous systems**

Authors: **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 and Thiago Verano-Braga**

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# CERTIFICATE

The communication entitled **Proteome changes of serum-derived extracellular vesicles in patients with congenital zika syndrome**

Authors: **Leticia Gomes de Pontes, Renata Harumi Cruza, Patrick da Silva, Thaís Regiani Cataldi and Antonio Condino-Neto**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Proteome-wide alterations in the epimastigote and metacyclic trypomastigotes stages of virulent and non-virulent *T cruzi* strains**

Authors: **Lays Adrienne Mendonça Trajano Silva, Deivid Martins Santos, Simon Mule, Walter Colli, Graziella Eliza Ronsein, Maria Julia Manso Alves and Giuseppe Palmisano**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Proteomic analysis of burn tissue regeneration upon treatment with biological dressing of Tilapia (*Oreochromis niloticus*) skin in comparison to treatment with silver sulfadiazine**

Authors: **Ivna Ferreira Gomes, Fernanda Soares Macedo, Laís Lacerda Brasil de Oliveira, Maria Gilnara Lima Bandeira, Guilherme Graziany Camelo De Carvalho, Maria Elisabete Amaral de Moraes and Carlos Roberto Kosky Paier**

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# CERTIFICATE

The communication entitled **Proteomic analysis of primary tumors and paired brain metastases in lung adenocarcinoma patients identifies survival-related protein candidates**

Authors: **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 and Melinda Rezeli**

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# CERTIFICATE

The communication entitled **Proteomic analysis reveals differences between populations of *Myrsine coriacea* (Primulaceae) subjected to common garden conditions**

Authors: **Roberta Pena da Paschoa, Vitor Batista Pinto, Mário Luís Garbin, Paulo César Cavatte, Tiago Oliveira Godinho, Lucas Rodrigues Xavier, Tatiana Tavares Carrijo and Vanildo Silveira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Proteomic analysis reveals the interaction of  $\beta$ -actin and non-muscle myosin II in the nucleus**

Authors: **María José González Armijos, Clara Couto Fernandez, Michele Angela Rodrigues and Dawidson Assis Gomes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Proteomic and pharmacological comparison between *Crotalus durissus cumanensis* and *Crotalus vegrandis* venoms reveals for the first time FXa-like activity in rattlesnake venom.**

Authors: **BETZABETH PEREIRA, Jhonny Figueroa, Raul Del valle Cedeño Ramos and Josmary Brazón**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Proteomic changes during developmental trajectory of human brain organoid and corpus callosum agenesis patient protein signature**

Authors: **Michele Rodrigues Martins, Livia Goto Silva, Fábio César Sousa Nogueira, Fernanda Tovar-Moll, Stevens Kastrup Rehen and Magno Junqueira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Proteomic characterization of patients who died with COVID-19 in Amazonas**

Authors: **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 and Priscila Ferreira de Aquino**

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# CERTIFICATE

The communication entitled **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.**

Authors: **Germano Aguiar Ferreira, Carolina Hassibe Thome, Clarice Izumi, Mariana Lopes Grassi, Guilherme Pauperio Lanfredi, Marcus Smolka, Vitor Marcel Faça and Francisco José Candido dos Reis**

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# CERTIFICATE

The communication entitled **Proteomic profile of platelets and extracellular vesicles reflect platelet hyper-reactivity and cell death in severe COVID-19**

Authors: **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 and Monique Ramos de Oliveira Trugilho**

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# CERTIFICATE

The communication entitled **Proteomic profiles analysis of plasma exosomes and white blood cells reveals news insights of Parkinson's Disease patients classified into Hoehn & Yahr clinical stages**

Authors: **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 and Luciana Pizzatti**

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# CERTIFICATE

The communication entitled **Proteomic profiling of Gestational Diabetic-induced Myopathy in rectus abdominis muscle of gestational diabetes mellitus women with pregnancy-specific urinary incontinence**

Authors: **FERNANDA CRISTINA BERGAMO ALVES, Rafael Guilen de Oliveira, Carolina Neiva Frota de Carvalho, David Rafael Abreu Reys, Gabriela Garcia, Angelica Mercia Pascon Barbosa and Marilza Vieira Cunha Rudge**

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# CERTIFICATE

The communication entitled **Proteomic profiling of Southwestern Colombian Bothrops venoms using micropillar array-based chromatography**

Authors: **Luis Miguel Muñoz Gómez, Paulo Costa Carvalho, Jimmy Alexander Guerrero Vargas, Richard Hemmi Valente and ANA GISELE DA COSTA NEVES FERREIRA**

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# CERTIFICATE

The communication entitled **Proteomics and free polyamine analyses in somatic embryos of *Passiflora edulis* Sims 'UENF Rio Dourado'**

Authors: **Kaliane Zaira Camacho Maximiano Cruz, Felipe Astolpho Almeida, Ellen Moura Vale, Nadia Botini, Rosana Gobbi Vettorazzi, Renan Carrari dos Santos, Claudete Santa-Catarina and Vanildo Silveira**

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# CERTIFICATE

The communication entitled **Proteomics of axenic and intracellular amastigote lifeforms of *Trypanosoma cruzi* in replicative and non-replicative conditions**

Authors: **Reynaldo Magalhães Melo, Agnelo Rodrigues Souza, Jaques Miranda Ferreira de Souza, Agenor de Castro Moreira dos Santos Júnior, Marcelo Valle de Sousa, Luis Henrique Ferreira do Vale, Wagner Fontes, Beatriz Dolabela de Lima, Consuelo Medeiros Rodrigues de Lima, Izabela Marques Dourado Bastos and Carlos André Ornelas Ricart**

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# CERTIFICATE

The communication entitled **Proteomics signature of leukocytes of Brazilian patients with Cartilage-Hair Hypoplasia**

Authors: **Maria Eduarda Gomes Ferreira Neves, Bruna Luísa Franco Fadel, Nicole Woldmar, Denise Pontes Cavalcanti, Têmis Maria Félix, Dafne Dain Gandelman Horovitz, Fábio César Sousa Nogueira, Juan Clinton Llerena Jr., Luciana Pizzatti and Sayonara Gonzalez**

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# CERTIFICATE

The communication entitled **PROVID-19: Exploring the proteomic overview of COVID-19 patients in Amazonas**

Authors: **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 and Paulo Costa Carvalho**

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# CERTIFICATE

The communication entitled **Quality evaluation of Amazonian *salvas de marajó* (Verbenaceae and Lamiaceae)**

Authors: **Rayane da Cruz Albino, Victor Paulo Ferreira, Anna Paola Trindade Rocha Pierucci, Suzana Guimarães Leitão and Danilo Ribeiro de Oliveira**

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The communication entitled **Quantification of high-density lipoprotein (HDL)-associated proteins in hospitalized and non-hospitalized COVID-19 patients**

Authors: **Douglas Ricardo de Souza Junior, Amanda Ribeiro Martins da Silva, Livia Rosa Fernandes, Giuseppe Palmisano and Graziella Eliza Ronsein**

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# CERTIFICATE

The communication entitled **Quantification of the components of the Renin Angiotensin System in the light/dark period**

Authors: **Júlia Rezende Ribeiro, André Gustavo de Oliveira, Robson Augusto Souza dos Santos and Thiago Verano-Braga**

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The communication entitled **Quantitation of 6 N-Nitrosamines in Metformin & 5 Sartan APIs as per the EDQM method Procedure C**

Authors: **Nitish Ramchandra Suryawanshi, Sanket Anand Chiplunkar, Dheeraj Handique, Prashant Hase, Durvesh Sawant, Aseem Wagle, Rahul Dwivedi, Satyendra Singh, Jitendra Kelkar / Pratap Rasam and Ana Caroline Martimiano**

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The communication entitled **Quantitation of Ethylene Oxide (EtO) and 2-Chloroethanol (2-CE) in sesame seeds by using dynamic headspace GC-MS/MS**

Authors: **Sanket Anand Chiplunkar, Aseem Wagle, Rahul Dwivedi, Durvesh Sawant, Dheeraj Handique, Prashant Hase, Nitish Ramchandra Suryawanshi, Satyendra Singh, Jitendra Kelkar / Pratap Rasam and Rodrigo Ossamu Saga Kitamura**

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The communication entitled **Quantitative Analysis of *Cannabis sativa* Oils from Brazilian Medicinal Cannabis Association using High-Resolution Mass Spectrometry**

Authors: **Luis Otávio Junqueira, Isabel Vitória Costa Fulchini, Joice Rodrigues dos Santos and Diogo de Oliveira Silva**

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# CERTIFICATE

The communication entitled **Quantitative Analysis of the Endogenous Steroid Profile in Plasma of Patients with Parkinson's Disease by GC-MS/MS**

Authors: **Jéssica Gorett Brito Fontes, Andressa Cristina dos Santos Marques, Bruna Brito, Bruna Luísa Franco Fadel, Nicole Woldmar, Gabriella Poralla, Mariana Figueiredo, Letícia Giacomini, Ana Rosso, Monica Costa Padilha and Luciana Pizzatti**

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The communication entitled **Rapid pharmacokinetic analysis of small drugs by mass spectrometry imaging combined with product ion analysis**

Authors: **Laudicéia Alves de Oliveira**

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# CERTIFICATE

The communication entitled **Repair mechanism of DNA ethenoadducts by singlet oxygen**

Authors: **Hulyana Brum, Ester Mazepa, Fernanda Manso Prado, Guilherme Lanzi Sasaki, Paolo Di Mascio, Marisa H. G. de Medeiros and Glaucia Regina Martinez**

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# CERTIFICATE

The communication entitled **Response surface methodology applied to LC-QToF mass spectrometer parameters optimization for untargeted metabolomics investigations**

Authors: **Olívia Brito de Oliveira Moreira and Marcone Augusto Leal de Oliveira**

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# CERTIFICATE

The communication entitled **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**

Authors: **Pimpirelli Jonco dos Santos, Luana Floriano, Érica Fernanda Gonçalves Gomes de Sá, Tomás Mariano Mac Loughlin, Pedro Cordeiro Estrela and Renato Zanella**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Sample preparation and LC-MS/MS for metabolomic analysis of plasma and leukocytes from patients with COVID-19**

Authors: **Paulo Emílio Pereira Barci, Yingying Zheng, Patricia Palmeira and Alvaro Santos-Neto**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **SandPaper Spray Mass Spectrometry (SPS-MS): a new technique for direct analysis of polishable matrix**

Authors: **Diego Magalhães Costa and Rodinei Augusti**

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The communication entitled **Screening of Peptide Libraries for the Receptor-Binding Domain (RBD) of SARS-CoV-2 Variants using a Single Quadrupole Mass Spectrometer**

Authors: **Jennifer C. Davis, Evelyn H. Wang, Christopher T. Gilles, Logan T. Miller, Vikki Johnson and Marcos Albieri Pudenzi**

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# CERTIFICATE

The communication entitled **Searching for metabolic changes during plant-herbivore interactions: The case of *Brassica* plants**

Authors: **Abigail Moreno Pedraza**

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# CERTIFICATE

The communication entitled **Sectioning protocol for molecular mapping by MALDI-IMS of açáí (*Euterpe oleracea* Mart.) seed**

Authors: **Gabriel Rocha Martins, Felipe Lopes Brum, Ronaldo Mohana-Borges and Ayla Sant'Ana da Silva**

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# CERTIFICATE

The communication entitled **Serum proteome depletion and enrichment methods in the context of *Schistosoma mansoni* infection in the murine model**

Authors: **Iara Araújo Ferreira, Lara Geralda Magela dos Santos Vieira, Gustavo Gonçalves Silva, Camilo Elber Vital and William de Castro Borges**

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# CERTIFICATE

The communication entitled **Shoot development *in vitro* is affected by alterations in hormones and protein profiles in *Cedrela fissilis* Vell. (Meliaceae) during long-term subculture**

Authors: **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 and Claudete Santa-Catarina**

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# CERTIFICATE

The communication entitled **Singlet molecular oxygen ( $^1\text{O}_2$ ) involved in protein aggregation: biological consequence, analysis and characterization by orbitrap-nLC?MS/MS**

Authors: **Emerson Finco Marques and Paolo Di Mascio**

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# CERTIFICATE

The communication entitled **Skin Secretion of *Phyllomedusa* species: Peptidomics and Metabolomics and Bioactive Potential**

Authors: **Geisa Paulino Caprini Evaristo, Joseph Albert Medeiros Evaristo, Bruna Fonseca Tavares, Fernando Loza Guariero, Elise Bitencourte de Laia, Gabriel Silva da Costa, Esdras Abimael Maia Mendonça, Sheila Barreto Guterres, Moisés Barbosa de Souza, Fábio César Sousa Nogueira and Fernando Zanchi**

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# CERTIFICATE

The communication entitled **Sodium Interference in Lithium Isotope Ratio Analysis by Inductively Coupled Plasma Mass Spectrometry**

Authors: **Mariana Novais Andrade, Juliana Ikebe Otomo, Maíse Pastore Gimenez, Letícia da Silva Nascimento, Henrique Bataglia do Nascimento, Paulo Henrique Barreto Leão, Priscila de Souza Cecílio, Vanderlei Sergio Bergamaschi, João Coutinho Ferreira and Oscar Vega-Bustillos**

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# CERTIFICATE

The communication entitled **Solanum crinitum Lam. (Solanaceae): comprehensive chemical characterization of alkaloids from unripe and ripe fruits**

Authors: **Marcos Venicius Nunes, Webster Fernando de Carvalho Junior, Ana Paula Aparecida Pereira and Célio Fernando Figueiredo Angolini**

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# CERTIFICATE

The communication entitled **Sourdough fermentation as strategy to decrease allergenic wheat fractions in dough bread: a proteomics approach**

Authors: **Mariana Pinheiro Costa Pimentel, Leidiane Andreia Acordi Menezes, Thais de Oliveira Alves, Talita Pimenta do Nascimento, Joseph Albert Medeiros Evaristo, Fábio César Sousa Nogueira, Mariana Simões Larráz Ferreira and Juliano De Dea Lindner**

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# CERTIFICATE

The communication entitled **Spatial detection of cyclic dimeric guanosine monophosphate in bacterial biofilm colonies using imaging mass spectrometry**

Authors: **Catherine S. McCaughey, Michael A. Trebino, Allyson McAtamney, Fitnat H. Yildiz and Laura M. Sanchez**

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# CERTIFICATE

The communication entitled **Spatial proteomics reveals subcellular reorganization in human keratinocytes exposed to UVA light**

Authors: **Hellen Valerio, Felipe Gustavo Ravagnani, Angela Paola Yaya Candela, Bruna Dias Carvalho da Costa, Graziella Eliza Ronsein and Paolo Di Mascio**

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# CERTIFICATE

The communication entitled **Speciation of chemical constituents in pyrolytic oil from cassava harvest residues by HESI and APPI-Orbitrap MS**

Authors: **Wenes Ramos da Silva, Polyana Santos Rabelo and Alberto Wisniewski Jr**

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The communication entitled **Speciation of Methyl Mercury and Mercury in Honey using High Performance Liquid Chromatography hyphenated with Inductively Coupled Plasma Mass Spectrometry**

Authors: **Giselaine Alves dos Santos**

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# CERTIFICATE

The communication entitled **STRUCTURAL ANNOTATION OF NAPHTHENIC ACIDS FROM PRODUCED WATER SAMPLES THROUGH MOLECULAR NETWORKING AND *IN SILICO* FRAGMENTATION TOOLS**

Authors: **Marcella Ferreira Rodrigues, NERILSON MARQUES LIMA, ROSINEIDE COSTA SIMAS, Gabriel Henry Morais Dufraayer, Rogério Mesquita de Carvalho, IRIS MEDEIROS JUNIOR, Gabriel Franco Santos and Boniek Gontijo Vaz**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Structural characterisation of phenolic compounds in *Quillaja brasiliensis* leaves by tandem mass spectrometry (DI-ESI-IT-MS<sup>n</sup> and LC-ESI-IT-MS<sup>2</sup>)**

Authors: **Federico Wallace, Cintia Rodriguez, Fernando Ferreira and Cristina Olivaro**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **STUDY OF CASTOR BEAN SEED DEVELOPMENT BY POST-TRANSLATIONAL MODIFICATIONS**

Authors: **Yara Martins da Silva, Wassali Valadares de Sousa, Francisco de Assis Paiva Campos, Peter Roepstorff, Gilberto Barbosa Domont and Fábio César Sousa Nogueira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Study of organic pollutants present in sludge generated in a Water Treatment Plant by comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry**

Authors: **Luciana Nascimento Rocha Mangelli, Tiago Schena, Felipe Cury Mazza and Carin von Muhlen**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Study of the chemical variation of *Coleus amboinicus* Lour. alcoholic extracts due to growing conditions**

Authors: **Gabriela Ferreira da Silva, Guilherme Perez Pinheiro and Alexandra Christine Helena Frankland Sawaya**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Study of the Composition of the Fractions of Macaúba Endocarp Bio Oil Obtained by the Prep-LC Technique Using GC-MS**

Authors: **Willian Pereira Gomes, Lídia Renata Zanão, Suellen Rodrigues Ramalho, Giselle de Carvalho, Gisele Marta Martins, Helio Merá de Assis, Jessica Carolina Medina Gallardo and Desiree Soares da Silva**

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# CERTIFICATE

The communication entitled **SYNTHESIS OF NEW ACRYLOITRLES DERIVED FROM AROYL-ACETONITRILES**

Authors: **Welisson Vilarindo de Oliveira, Tahira Souza Melo, Érika Demasceno, MANUEL SALUSTIANO ALMEIDA SAAVEDRA and Jan Carlo Morais Oliveira Bertassoni Delorenzi**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **The advances of Forensic Chemistry on the molecular investigation of new psychoactive substances**

Authors: **Gabriela Vanini Costa and Francisco Radler Aquino Neto**

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# CERTIFICATE

The communication entitled **The advantages of applying different ionization sources FT-ICR Mass Spectrometry in geochemical assessments**

Authors: **Danielle Mitze Muller Franco, Taynara Rodrigues Covas, Lidya Cardozo da Silva, Rosana Cardoso Lopes Pereira, Mario Duncan Rangel, ROSINEIDE COSTA SIMAS, Gabriel Henry Moraes Dufreyer, Talita Pinheiro Brito and Boniek Gontijo Vaz**

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# CERTIFICATE

The communication entitled **The enzymatic proteome found in the venom gland of *Actinopus* sp.**

Authors: **Dávila Regina Pacheco Silva, Frederico Francisco Fernandes, Camilo Elber Vital, Márcia Helena Borges and William de Castro Borges**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **THE USE OF MASSPEC PEN TO OBTAIN THE PROFILE OF CHEMICAL MARKERS IN WOOD**

Authors: **Adriano Reis José da Silva, Caroline Pais de Carvalho, Alicia Camacho dos Santos, Iasmim Lopes Lima, Livia Schiavinato Eberlin and MARCOS NOGUEIRA EBERLIN**

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# CERTIFICATE

The communication entitled **Tissue Lipidomic Profile In Adenocarcinoma Of The Rectal Before And After Neoadjuvant Therapy Using Mass Spectrometry Imaging**

Authors: **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 and Patrícia de Oliveira Carvalho**

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The communication entitled **TMT-based proteomic analysis reveals a distinctive response in COVID-19 patients throughout the time course of disease**

Authors: **Giuseppe Gianini F. Leite, Paula M. Peçanha-Pietrobon, Paulo R. Abrão Ferreira, Jaquelina Sonoe Ota Arakaki, Edecio Cunha-Neto, Alexandre Keiji Tashima and Reinaldo Salomao**

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The communication entitled **Toltrazuril and metabolites analysis in poultry muscles**

Authors: **Vanessa Gressler, Francisco Noé da Fonseca, Lana Flávia Baron, Karina Paese and Ana Paula Almeida Bastos**

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The communication entitled **Tools to Visualize Discrimination of Lacustrine Crude Oil from Different Brazilian Pre-salt Basins**

Authors: **Luan Felipe Campos Oliveira, Alessandra Sussulini and MARCOS NOGUEIRA EBERLIN**

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The communication entitled **Toxin signatures in the venom gland of *Actinopus*' trapdoor spider**

Authors: **Frederico Francisco Fernandes, Camilo Elber Vital, Marcia Helena Borges and William de Castro Borges**

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The communication entitled **Tracheal aspirate proteome reveals association of CD177 with mortality in severe COVID-19**

Authors: **Victor da Conceição David, Luana Rocha da Silva, Emily Caroline dos Santos Moraes, Samuel Mandacaru, Tiago Moreno Lopes Souza, Patrícia Torres Bozza and Monique Ramos de Oliveira Trugilho**

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The communication entitled **UHPLC-MS Analysis of *Kalanchoe* spp. Popularly Known as "Saião": In a Search for Further Evidence About Their Differences and Intraspecific Sources of Variation**

Authors: **Guilherme Perez Pinheiro and Alexandra Christine Helena Frankland Sawaya**

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The communication entitled **UHPLC-MS/MS method for plasma measurement of N-acetylcysteine and Glutathione for drug monitoring in Sjögren Syndrome**

Authors: **Léonard De Vinci Kanda Kupa, Marc Yves Chalom, Paschoalina Romano, Persio De Almeida Rezende Ebner, Nádia Emi Aikawa, Clóvis Artur Almeida da Silva, Eloisa Bonfa and Sandra Gofinet Pasoto**

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The communication entitled **UHPLC/ESI-Orbitrap-MS analysis of *Psidium sartorianum* (Myrtaceae) hydroethanolic extract obtained from post-distillation plant waste material.**

Authors: **Manuel Camilo Solano Merchán, Juan Camilo Henríquez Sanabria, Jairo René Martínez and Elena E. Stashenko**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Ultra-Short Transient Signal & Direct Analysis of Highly Interfered and Challenging Trace Element with the First Quadruple Quadrupole ICPMSMS**

Authors: **Soumya GUPTA, Pierre-Luc DUPONT, Patrick ESPLA, Hervé PINALY and Hugues PREUDHOMME**

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The communication entitled **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

Authors: **Cecília de Andrade Bhering, Ananda da Silva Antonio, Diego Rissi Carvalhosa, Francisco Radler Aquino Neto and Gabriela Vanini Costa**

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# CERTIFICATE

The communication entitled **Understanding nano-bio interactions through the biomolecular corona: the role of mass spectrometry**

Authors: **Valentina Castagnola, Clarissa Braccia, Nara Liessi, Luca Maragliano, Mattia Bramini, Ester Vazquez, Fabio Benfenati and Andrea Armirotti**

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The communication entitled **Unraveling differentially expressed proteins in tissues with precursor lesions of cervical cancer**

Authors: **Luana Quadros de Souza Leão, Sofia Angiole Cavalcante, Jonas Balan de Padua, Zeliene Araújo de Souza, Anderson Ferreira Gonçalves, Joseph Albert Medeiros Evaristo, Gabriel Reis Alves Carneiro, Fábio César Sousa Nogueira and Priscila Ferreira de Aquino**

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The communication entitled **Unravelling the immunomodulatory role of nitro-cLA and its relation to metabolic health indicators**

Authors: **Mariana Peter Pires Silva da Cruz, Hygor Marcos Ribeiro de Souza, Alexandre Torres, Benjamin Jenkins and Albert Koulman**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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The communication entitled **Untargeted Metabolomics Profiling of Plasma and Urine from Patients with Primary Biliary Cholangitis**

Authors: **Regina Vincenzi Oliveira, Juliana Magalhães de Oliveira, Thais de Assis Lopes, Alex Castro, Étore F. Signini, Juliana Goldbaum Crescente, Aparecida Maria Catai and Eduardo Luiz R. Cançado**

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The communication entitled **Untargeted metabolomics: Evaluation of the performance of athletes in 400-meter dash by GC-MS**

Authors: **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 and Ana Valéria Colnaghi Simionato**

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The communication entitled **Untargeted SPME-GC-MS to detect fraud in roasted and ground coffee**

Authors: **Cinthia de Carvalho Couto**

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The communication entitled **UPLC-ESI-Orbitrap-MS analysis for chemical annotation of *Ocotea diospyrifolia* metabolites**

Authors: **Matheus Fernandes Alves, Albert Katchborian Neto, Rosana Casoti, Danielle Ferreira Dias, Marisi Gomes Soares and Daniela Aparecida Chagas-Paula**

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The communication entitled **UPLC-HRMS-based metabolomic approach for the evaluation of variations in chemical composition of Isabel precoce grapes**

Authors: **Francisco Leomar da Silva, Davila Zampieri, Elenilson G. A. Filho and Lorena Mara Alexandre e Silva**

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The communication entitled **UPLC-MS\MS method development for LASFAE 036  
Pharmacokinetic evaluation**

Authors: **Filipe Soares Quirino da Silva, Débora Inácio Leite Firmino Marinho, Monica  
Macedo Bastos, Nubia Boechat and Carolina Cattapreta**

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The communication entitled **Urine and serum metabolomic study of patients suffering from deficient in ATP synthase, short-chain fatty acid acyl CoA dehydrogenase and their combinations**

Authors: **Dana Dobešová, Matúš Prídavok, Eliška Ivanovová, Barbora Piskláková, Aleš Kvasnička and David Friedecký**

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The communication entitled **Urine metabolites enable fast detection of covid-19 using mass spectrometry**

Authors: **Danilo Cardoso de Oliveira, Alexandre Varão Moura, Alex 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 and Andreia de Melo Porcari**

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The communication entitled **Urine untargeted metabolomics in COVID-19 patients**

Authors: **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 and Andreia de Melo Porcari**

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The communication entitled **Use of High Throughput Technology LDTD for Different Vitamins Analysis in 9 Seconds**

Authors: **Pierre Picard and Jean Lacoursiere**

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The communication entitled **Use of the MasSpec Pen as an alternative for rapid screening of COVID-19 in urine**

Authors: **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 and Marcos Nogueira Eberlin**

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# CERTIFICATE

The communication entitled **Validation of a bioanalytical method for determination of butylscopolamine by LC-MS**

Authors: **Felipe Monferdine Aggio, Silvana Aparecida Calafatti Carandina and Ana Valéria Colnaghi Simionato**

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The communication entitled **Validation of qualitative methods for pesticide screening in surface and underground water**

Authors: **Júlia Célia Lima Gomes, Adriana Nori de Macedo, Lucas Pinto da Silva, Marina Caneschi de Freitas, Mariana Ramos Almeida, Millena Christie Ferreira Avelar, Ricardo Mathias Orlando and Rodinei Augusti**

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The communication entitled **Visualization of Lanthanum Precipitates in Gastric Tissue by Laser Ablation- Inductively Coupled Plasma-Mass Spectrometry Imaging**

Authors: **Lucas Marinho Nóbrega de Assis, Shuichi Shimma and Koji Okuda**

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BrProt President





# CERTIFICATE

The communication entitled **Volatile organic compounds artificially emitted by dynamic releasers and investigated by Thermal Desorption-Gas Chromatography-Mass Spectrometry reproduces the emission-pattern from *Arabidopsis thaliana***

Authors: **Tatiana Aparecida Mulinari, Haroldo Xavier Linhares Volpe, Rejane Angélica Grigio Luvizotto, Nelson Arno Wulff, Michele Carmo-Sousa, Victor Pena Ribeiro, Jairo Kenupp Bastos, Leandro Peña and Rodrigo Facchini Magnani**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

**MARCOS N. EBERLIN**

BrMASS Executive President

**JOSÉ M. RIVEROS**

BrMASS Emeritus President

**GILBERTO B. DOMONT**

BrProt President



# CERTIFICATE

The communication entitled **Vortex-assisted liquid-liquid microextraction combined with liquid chromatography tandem mass spectrometry for simultaneous determination of cardiovascular drugs in human plasma**

Authors: **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 and Christian Fernandes**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Widely targeted metabolomics of 142 hydrophilic compounds in beer using liquid chromatography-single quadrupole mass spectrometer**

Authors: **Luísa Barrella Ambrosio**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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# CERTIFICATE

The communication entitled **Wiring the proteome of multiple sites gives insights into head and neck cancer biology.**

Authors: **Adriana F. Paes Leme**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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BrMASS Executive President

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**JOSÉ M. RIVEROS**

BrMASS Emeritus President

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BrProt President



# CERTIFICATE

The communication entitled **Zebrafish Water Tank model as a tool to evaluate phase I and II metabolites of Methyltestosterone**

Authors: **Beatriz Hoffmann de Souza, Marcio Vinicius da Silva Gomes, ISABELLE KARINE DA COSTA NUNES, Monica Costa Padilha and Henrique Marcelo Gualberto Pereira**

Has been presented as a poster at the III IBEROAMERICAN Conference on Mass Spectrometry held in Rio de Janeiro - RJ - Brazil, from December 10th to 15th, 2022

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