María Eugenia Monge, Ph.D.

Curriculum vitae

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PERSONAL DATA

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EDUCATIONAL BACKGROUND

12/2006 **Ph.D. Inorganic, Analytical and Physical Chemistry, University of Buenos Aires** (**UBA**), Argentina. Qualification: Outstanding. Advisor: Prof. Martín Negri. Title: "*Obtención y reconocimiento de huellas digitales de sistemas multicomponentes mediante narices electrónicas. Aplicación a la detección de esencias en geles de pectina*."

12/2001 Graduated in Chemical Sciences (*Licenciada*), UBA, Argentina.
Over-all grade average: 9.0/10.

RESEARCH EXPERIENCE

11/2019 - present: Research staff (**Independent Investigator**) **of CONICET** (National Research Council of Argentina). **Principal Investigator** at CIBION (Center for Bionanoscience Research). Research Field: Mass spectrometry techniques applied for biomarker discovery and early disease detection, with special emphasis on untargeted metabolomics-based diagnostics. Identification and quantitation of analytes in complex samples.

2015-present: Scientific Officer of the Mass Spectrometry Facility at CIBION. The Mass Spectrometry laboratory is equipped with a UPLC Acquity I-class system coupled to a Xevo G2S Q-TOF mass spectrometer (Waters Corp.) and an Alliance HPLC system coupled to a PDA detector and a single quadrupole SQD2 mass spectrometer (Waters Corp.) and provides services to the Argentine Industry and the Scientific Community.

08/2014-10/2019: Research staff (**Associate Investigator**) **of CONICET** (National Research Council of Argentina). **Principal Investigator** at CIBION (Center for Bionanoscience Research).

06/2019-07/2019: Visiting Researcher at the research group of Dr. Christian George at IRCELYON-CNRS, France. Mass spectrometry based-seaomics.

01/2014-07/2014: Postdoctoral fellowship of **CONICET** at CIBION. Mass spectrometry techniques applied for biomarker discovery and early disease detection, with special emphasis on untargeted metabolomics-based diagnostics. Identification and quantitation of analytes in complex samples. Advisor: Prof. Pedro F. Aramendía.

02/2012-01/2014: Research Scientist I at **Georgia Institute of Technology**, Atlanta, **USA**. Research field: mass spectrometry with a strong focus on metabolomics, quantitative method development for biological samples, complex sample analysis, and pharmaceutical analysis. Advisor: Prof. Facundo M. Fernández

09/2008 –12/2011: **Post-doctoral** fellow at **IRCELYON** (***Centre National de la Recherche Scientifique***) in Lyon, **France**. Research field: Effect of light on heterogeneous reactions between atmospheric trace gases and different substrates and photoinduced transformations of atmospheric aerosol particles. Advisor: Dr. Christian George.

2008: Postdoctoral Fellow of **CONICET**. Research field: "Development of potentiometric sensors for detection of pollutants in water combining electronic noses and electronic tongue". Advisors: Dr. Martín Negri and Dr. Estela Andrade. Place of work: INQUIMAE, **Argentina**.

2007: Three months stance as a visiting researcher at the Biophysical Institute of Palermo, ***Consiglio Nazionale delle Ricerche (CNR)***, **Italy** to work in the European project: *"Realizzazione di un Centro regionale per il Controllo de Qualità di Oli Vergini d'Oliva"* Advisor: Dr. Pier Luigi San Biagio.

2006: Two months staying at the **University of Antwerp**, **Belgium** funded by an Alfa project of the European Union. Research field: Development of ion selective electrodes (ISE) based on PVC membranes with ionophores to be used in Argentina as potentiometric sensors. Advisor: Prof. Dr. Luc Nagels.

2004: Three months stance at the Biophysical Institute of Palermo, ***CNR***, **Italy**. Research field: Rheological studies on pectin gels. Advisor: Dr. Donatella Bulone.

04/2004-03/2008: **Postgraduate Fellowship** of **CONICET**. Research field: "Encapsulation of volatile compounds in gels and analysis of their release with electronic noses. Preparation and rheological characterization of gels". Place of work: INQUIMAE, DQIAQF, UBA, Argentina. Advisor: Prof. Martín Negri.

2002: Visiting graduate student at the University of Antwerp, **Belgium**. Research field: Development of potentiometric sensors. **Travel grant** from the of the Argentine National Agency of Scientific and Technological Promotion (**ANPCyT**). Advisor: Prof. Dr. Luc Nagels.

05/2002-04/2003: Postgraduate Fellowship of **ANPCyT**. Research field: "Electronic noses for the study of flavours released from microheterogeneous means". Place of work: INQUIMAE, DQIAQF, UBA, Argentina. Advisor: Dr. Martín Negri.

04/2000-09/2001: Undergraduate UBA Scholarship. Research field: "Study of the photochemical behaviour of organic substances naturally or artificially exposed to UV radiation – organic photochemistry – environmental photochemistry. Analytical

applications of the organic photochemistry". Department of Organic Chemistry. School of Sciences, UBA, Argentina. Advisor: Dr. Rosa Erra-Balsells.

SCIENTIFIC PUBLICATIONS (Total: 50)

1. G. Riquelme, E. E. Bortolotto, M. Dombald, M. E. Monge*, "Model-driven data curation pipeline for LC-MS-based untargeted metabolomics" *Metabolomics* (**2023**), *just accepted*. (***corresponding author**)
2. M. Manzi, N. Zabalegui, and M. E. Monge*, "Postoperative Metabolic Phenoreversion in Clear Cell Renal Cell Carcinoma" ***Journal of Proteome Research*** (**2023**), 22, 1, 1–15. https://doi.org/10.1021/acs.jproteome.2c00293 (***corresponding author**)
3. T. Schmidt De León, M. L. Salum, Y. Matsushita, K. Fukushima, M. E. Monge,* and R. Erra-Balsells*, "ESI-MS reveals preferential complex formation of carbohydrates with Z sinapinic acid compared with the E-isomer" ***New Journal of Chemistry*** (**2022**) 46, 18563. DOI: 10.1039/D2NJ02789E. (***corresponding author**)
4. C. Umansky, A. E. Morellato, M. Rieckher, M. A. Scheidegger, M. R. Martinefski, G. A. Fernández, O. Pak, K. Kolesnikova, H. Reingruber, M. Bollini, G. P. Crossan, N. Sommer, M. E. Monge, B. Schumacher and L. B. Pontel, "Endogenous formaldehyde scavenges cellular glutathione resulting in redox disruption and cytotoxicity" ***Nature Communications*** (**2022**) 13:745. DOI: 10.1038/s41467-022-28242-7.
5. S. Tomaz, D. Wang, N. Zabalegui, D. Li, H. Lamkaddam, F. Bachmeier, A. Vogel, M. E. Monge, S. Perrier1, U. Baltensperger, C. George, M. Rissanen, M. Ehn, I. El Haddad, M. Riva, "Structures and reactivity of peroxy radicals and dimeric products revealed by online tandem mass spectrometry" ***Nature Communications*** (**2021**) 12:300 DOI:10.1038/s41467-020-20532-2.
6. M. Manzi, M. Palazzo, M. E. Knott, P. Beauseroy, P. Yankilevich, M. I. Giménez, M. E. Monge*, "Coupled Mass Spectrometry-based Lipidomics Machine Learning Approach for Early Detection of clear cell Renal Cell Carcinoma", ***Journal of Proteome Research*** 20 (**2021**) 841-857. DOI: 10.1021/acs.jproteome.0c00663. (***corresponding author**)
7. M. R. Martinefski, B. Elguero, M. E. Knott, D. Gonilski, L. Tedesco, J. M. Gurevich Messina, C. Pollak, E. Arzt, and M. E. Monge* "Mass Spectrometry-based Metabolic Fingerprinting Contributes to Unveil the Role of RSUME in Renal Cell Carcinoma Cell Metabolism" ***Journal of Proteome Research*** 20 (**2021**) 786-803. DOI: 10.1021/acs.jproteome.0c00655. (***corresponding author**)
8. G. Riquelme, N. Zabalegui, P. Marchi, C. M. Jones and M. E. Monge* "A Python-Based Pipeline for Preprocessing LC–MS Data for Untargeted Metabolomics Workflows" ***Metabolites*** 10 (**2020**) 416. DOI:10.3390/metabo10100416. (***corresponding author**)
9. A. M. Evans, C. O'Donovan, M. Playdon, C. Beecher, R. D. Beger, J. A. Bowden, · D. Broadhurst, C. B. Clish, S. Dasari, W. B. Dunn, J. L. Griffin, T. Hartung, P.- C. Hsu, T. Huan, J. Jans, C. M. Jones, M. Kachman, A. Kleensang, M. R. Lewis, M. E. Monge, J. D. Mosley, E. Taylor, F. Tayyari, G. Theodoridis, F. Torta, B. K. Ubhi, D. Vuckovic, on behalf of the Metabolomics Quality Assurance, Quality Control Consortium (mQACC), "Dissemination and analysis of the quality assurance (QA)

and quality control (QC) practices of LC–MS based untargeted metabolomics practitioners" ***Metabolomics*** 16 (**2020**) 113. DOI: 10.1007/s11306-020-01728-5

10. N. Zabalegui, M. Manzi, A. Depoorter, N. Hayeck, M. Roveretto, C. Li, M. van Pinxteren, H. Herrmann, C. George, and M. E. Monge*, "Seawater Analysis by Ambient Mass-Spectrometry-Based Seaomics" ***Atmospheric Chemistry and Physics*** *20* (**2020**) 6243–6257. DOI: 10.5194/acp-20-6243-2020. (***corresponding author**)

11. M. van Pinxteren, K. Wadinga Fomba, N. Triesch, C. Stolle, O. Wurl, E. Bahlmann, X. Gong, J. Voigtländer, H. Wex, T.-B. Robinson, S. Barthel, S. Zeppenfeld, E. H. Hoffmann, M. Roveretto, C. Li, B. Grosselin, V. Daële, F. Senf, D. van Pinxteren, M. Manzi, N. Zabalegui, S. Frka, B. Gašparović, R. Pereira, T. Li, L. Wen, J. Li, C. Zhu, H. Chen, J. Chen, B. Fiedler, W. von Tümpling, K. A. Read, S. Punjabi, A. C. C. Lewis, J. R. Hopkins, L. J. Carpenter, I. Peeken, T. Rixen, D. Schulz-Bull, M. E. Monge, A. Mellouki, C. George, F. Stratmann, and H. Herrmann, "Marine organic matter in the remote environment of the Cape Verde Islands – An introduction and overview to the MarParCloud campaign" ***Atmospheric Chemistry and Physics*** *20* (**2020**), 6921-6951. DOI: 10.5194/acp-20-6921-2020.

12. M. A. Seleem, N. Rodrigues de Almeida, Y. Singh Chhonker, D. J. Murry, Z. da Rosa Guterres, A. M. Blocker, S. Kuwabara, D. J. Fisher, E. S. Leal, M. R. Martinefski, M. Bollini, M. E. Monge, S. P. Ouellette, M. Conda-Sheridan, "Synthesis and Antichlamydial Activity of Molecules Based on Dysregulators of Cylindrical Proteases" ***Journal of Medicinal Chemistry*** *63* (**2020**) 4370-4387. DOI: 10.1021/acs.jmedchem.0c00371.

13. M. Manzi, G. Riquelme, N. Zabalegui and M. E. Monge*, "Improving Diagnosis of Genitourinary Cancers: Biomarker Discovery Strategies through Mass Spectrometry-based Metabolomics" ***Journal of Pharmaceutical and Biomedical Analysis*** *178* (**2020**) 112905. DOI: 10.1016/j.jpba.2019.112905. (***corresponding author**)

14. X. Zang, M. E. Monge, D. Gaul, N. McCarty, A. Stecenko, F. M. Fernández, "Early Detection of Cystic Fibrosis Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics"***, Journal of Proteome Research*** *19* (**2020**) 144-152. DOI: 10.1021/acs.jproteome.9b00443

15. E. S. Leal, M. N. S. Adler, G. A. Fernandez, L. G. Gebhard, L. Battini, M. G. Aucar, M. Videla, M. E. Monge, A. Hernández de los Ríos, J. A. Acosta Dávila, M. L. Morell, S. M. Cordo, C. C. García, A. V. Gamarnik, C. N. Cavasotto, and M. Bollini. "De novo design approaches targeting an envelope protein pocket to identify small molecules against dengue virus", ***European Journal of Medicinal Chemistry*** *182* (**2019**) 111628. DOI: 10.1016/j.ejmech.2019.111628 .

16. X. Zang, M. E. Monge*, F.M. Fernández*, "Mass Spectrometry-Based Non-targeted Metabolic Profiling for Disease Detection: Recent Developments" ***Trends in Analytical Chemistry*** *118* (**2019**) 158-169 (***corresponding authors**) DOI: 10.1016/j.trac.2019.05.030.

17. M. E. Monge, J. N. Dodds, E. S. Baker, A. S. Edison, F. M. Fernández, "Challenges in Identifying the Dark Molecules of Life" ***Annual Review of Analytical Chemistry*** *12* (**2019**) 177–99. DOI: 10.1146/annurev-anchem-061318-114959.

18. C. S. Clendinen, D. A. Gaul, M. E. Monge, R. S. Arnold, A. S. Edison, J. A. Petros, F. M. Fernández "Preoperative Metabolic Signatures of Prostate Cancer Recurrence

Following Radical Prostatectomy" ***Journal of Proteome Research*** *18* (**2019**) 1316–1327. DOI: 10.1021/acs.jproteome.8b00926.

19. X. Zang, M. E. Monge, D. A. Gaul, and F. M. Fernández, "Flow Injection-Traveling Wave Ion Mobility-Mass Spectrometry for Rapid Prostate Cancer Metabolomics", ***Analytical Chemistry*** *90* (**2018**) 13767-13774. DOI: 10.1021/acs.analchem.8b04259.
20. M. E. Knott, M. Manzi, N. Zabalegui, M. O. Salazar, L. I. Puricelli, M. E. Monge*, "Metabolic Footprinting of a Clear Cell Renal Cell Carcinoma in vitro Model for Human Kidney Cancer Detection", ***Journal of Proteome Research*** *17* (**2018**) 3877–3888. DOI: 10.1021/acs.jproteome.8b00538 (***corresponding author**).
21. D. Fidalgo, M. E. Monge, O. Varela and A. Kolender, "Synthesis, Secondary Structure and Anion Binding of Acyclic Carbohydrate-derived Oligo(amide-triazole)s", European ***Journal of Organic Chemistry*** *2018* (**2018**) 6787–6799. DOI: 10.1002/ejoc.201801320.
22. C. S. Clendinen, M. E. Monge* and F. M. Fernández*, "Ambient Mass Spectrometry in Metabolomics", ***Analyst*** *142* (**2017**) 3101-3117. DOI: 10.1039/C7AN00700K (***corresponding authors**).
23. X. Zang, J. J. Pérez, C. M. Jones, M. E. Monge, N. A. McCarty, A. A. Stecenko, F. M. Fernández, "Comparison of Ambient and Atmospheric Pressure Ion Sources for Cystic Fibrosis Exhaled Breath Condensate Ion Mobility-Mass Spectrometry Metabolomics", ***Journal of The American Society for Mass Spectrometry*** *28* (**2017**) 1489-1496. DOI: 10.1007/s13361-017-1660-9.
24. X. Zang, M. E. Monge, N. A. McCarty, A. A. Stecenko, F. M. Fernández, "Feasibility of Early Detection of Cystic Fibrosis Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics: A Pilot Study", ***Journal of Proteome Research*** *16* (**2016**) 550-558. DOI: 10.1021/acs.jproteome.6b00675.
25. C. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomic Serum Profiling Detects Early-Stage High-Grade Serous Ovarian Cancer in a Mouse Model" ***Journal of Proteome Research*** *14* (**2015**) 917-927. DOI: 10.1021/pr5009948.
26. P. N. Newton, P. Tabernero, P. Dwivedi, M. J. Culzoni, M. E. Monge, I. Swamidoss, D. Mildenhall, M. D. Green, R. Jähnke, M. dos Santos de Oliveira, J. Simao, N. J White, F. M. Fernández, "Falsified medicines in Africa and public health – 'No Action–Talk Only'" ***The Lancet Global Health*** *2* (**2014**) e509-e510. DOI: 10.1016/S2214-109X(14)70279-7.
27. A. Kaylor, P. Dwivedi, J. J. Pittman, M. E. Monge, G. Cheng, S. Li, F. M. Fernández, "Plasma-Spray Ionization (PLASI): A Multimodal Atmospheric Pressure Ion Source for Liquid Stream Analysis" ***Journal of The American Society for Mass Spectrometry*** *25* (**2014**) 1788-1793. DOI: 10.1007/s13361-014-0948-2.
28. X. Zang, C. M. Jones, T. Q. Long, M. E. Monge, M. Zhou, L. D. Walker, R. Mezencev, A. Gray, J. F. McDonald, and F. M. Fernández, "Feasibility of Detecting Prostate Cancer by Ultraperformance Liquid Chromatography−Mass Spectrometry Serum Metabolomics" ***Journal of Proteome Research*** *13* (**2014**) 3444–3454. DOI: 10.1021/pr500409q.
29. M. E. Monge, P. Dwivedi, M. Zhou, M. Payne, C. Harris, B. House, Y. Juggins, P. Cizmarik, P. N. Newton, F. M. Fernández, D. Jenkins, "A Tiered Analytical Approach

for Investigating Poor Quality Emergency Contraceptives" ***PLoS ONE*** *9* (**2014**) (4):e95353. DOI:10.1371/journal.pone.0095353.

30. R. V. Bennett, E. M. Morzan, J. O. Huckaby, M. E. Monge, H. I. Christensen, F. M. Fernández, "Robotic Plasma Probe Ionization Mass Spectrometry (RoPPI-MS) of Non-Planar Surfaces" ***Analyst*** *139* (**2014**) 2658-2662. DOI: 10.1039/c4an00277f. *Journal Cover*.
31. M. E. Monge, J. J. Pérez, P. Dwivedi, M. Zhou, N. A. McCarty, A. A. Stecenko, F. M. Fernández, "Ion Mobility and Liquid Chromatography-Mass Spectrometry Strategies for Exhaled Breath Condensate Glucose Quantitation in Cystic Fibrosis Studies" ***Rapid Communications in Mass Spectrometry*** *27* (**2013**) 2263-2271. DOI: 10.1002/rcm.6683.
32. M. E. Monge, G.A. Harris, P. Dwivedi, F. M. Fernández, "Mass Spectrometry-Recent Advances in Direct Open Air Surface Sampling/Ionization" ***Chemical Reviews*** *113* (**2013**) 2269-2308. DOI: 10.1021/cr300309q. *Journal Cover*.
33. M. E. Monge, T. Rosenørn, O. Favez, M. Müller, G. Adler, A. A.Riziq, Y. Rudich, C. George, B. D'Anna, "Alternative pathway for atmospheric particles growth" ***Proceedings of the National Academy of Sciences of the United States of America*** *109* (**2012**) 6840-6844. DOI: 10.1073/pnas.1120593109. *Featured article in PNAS*.
34. M. Amenta, M. E. Monge, L. Lizarraga, D. Giacomazza, V. Guarrasi, P. L. San Biagio, D. Bulone, "Multivariate Data Analysis of Thermally Treated Sicilian Extravirgin Olive Oils. Coupling of Electronic Nose, Gas Chromatography-mass Spectrometry and Rheology Techniques" ***The Open Food Science Journal*** *6* (**2012**) 24-32. DOI: 10.2174/1874256401206010024.
35. V. Zelenay, M. E. Monge, B. D'Anna, C. George, S.A. Styler, T. Huthwelker, M. Ammann, "Increased steady state uptake of ozone on soot due to UV/Vis radiation" ***Journal of Geophysical Research – Atmospheres*** *116* (**2011**) D11301. DOI: 10.1029/2010JD015500.
36. C. Baduel, M.E. Monge, D. Voisin, J.L. Jaffrezo, C. George, I. El Haddad, N. Marchand, B. D'Anna, "Oxidation of Atmospheric Humic Like Substances by Ozone: A Kinetic and Structural Analysis Approach" ***Environmental Science & Technology*** *45* (**2011**) 5238-5244. DOI: 10.1021/es200587z.
37. R. Ammar, M.E. Monge, C. George, B. D'Anna, "Photoenhanced NO_2 loss on simulated urban grime" ***ChemPhysChem*** *11* (**2010**) 3956-3961. DOI: 10.1002/cphc.201000540.
38. M.E. Monge, C. George, B. D'Anna, J.F. Doussin, A. Jammoul, J. Wang, G. Eyglunent, G. Solignac, V. Daele, A. Mellouki, "Ozone Formation from Illuminated Titanium Dioxide Surfaces" ***Journal of the American Chemical Society*** *132* (**2010**) 8234-8235. DOI: 10.1021/ja1018755.
39. M.E. Monge, B. D'Anna and C. George, **"**Nitrogen dioxide removal and nitrous acid formation on titanium oxide surfaces—an air quality remediation process?" ***Physical Chemistry Chemical Physics*** *12* (**2010**) 8991-8998. DOI: 10.1039/b925785c.
40. M.E. Monge, B. D'Anna, L. Mazri, A. Giroir-Fendler, M. Ammann, D.J. Donaldson, and C. George, "Light changes the atmospheric reactivity of soot" ***Proceedings of the National Academy of Sciences of the United States of America*** *107* (**2010**) 6605-6609. DOI: 10.1073/pnas.0908341107.

41. S.D. Rodriguez, M.E. Monge, A.C. Olivieri, R.M. Negri and D.L. Bernik, **"**Time dependence of the aroma pattern emitted by an encapsulated essence studied by means of electronic noses and chemometric analysis" ***Food Research International*** *43* (**2010**) 797-804. DOI:10.1016/j.foodres.2009.11.022.
42. G. Bazylak, M.E. Monge, J. Everaert, L.J. Nagels, "Hydrophobicity-aided potentiometric detection of catecholamines, beta-agonists, and beta-blockers in a mixed-solvent capillary electrophoresis system", ***Journal of Separation Science*** 32, 135 – 146 (**2009**). DOI 10.1002/jssc.200800450.
43. M.E. Monge, R.M. Negri, D. Giacomazza and D. Bulone, "Correlation between Rheological properties and limonene release in pectin gels using an electronic nose" ***Food Hydrocolloids*** *22* (**2008**) 916-924. DOI:10.1016/j.foodhyd.2007.05.004.
44. M.E. Monge, R.M. Negri, A.A. Kolender and R. Erra-Balsells, "Structural characterization of native high-methoxylated pectin using NMR spectroscopy and UV-Maldi-TOF mass spectrometry. Comparative use of 2,5-dihydroxybenzoic acid and nor-harmane as UV-Maldi matrices" ***Rapid Communications in Mass Spectrometry*** *21* (**2007**) 2638-2646. DOI: 10.1002/rcm.3121.
45. L.J. Nagels, J. Everaert, B. Vissers, J. Sekula, H. Bohets, M. Monge, K. Peeters, N. Vervoort, K. Sadowska, D. Koziowska, M. Brewster, K. Vanhoutte, **"**Molecular interaction sensors: A new type of detector for separation methods" ***LC-GC Europe*** *20* (**2007**) 558-566.
46. D. L. Bernik, D. Zubiri, M.E. Monge and R.M. Negri, "New kinetic model of drug release from swollen gels under non-sink conditions" ***Colloids and Surfaces A: Physicochemical and Engineering Aspects*** *273* (**2006**) 165-173. DOI: 10.1016/j.colsurfa.2005.08.018.
47. M. E. Monge, D. Bulone, D. Giacomazza, R.M. Negri and D.L. Bernik, "Electronic Nose screening of limonene release from multicomponent essential oils encapsulated in pectin gels" ***Combinatorial Chemistry & High Throughput Screening*** *7* (**2004**) 337-344. DOI: 10.2174/1386207043328689. *Journal Cover*.
48. M.E. Monge, D. Bulone, D. Giacomazza, D.L. Bernik and R. Martín Negri, "Detection of Flavor Release from Pectin Gels using Electronic Noses" ***Sensors & Actuators*** *B 101* (**2004**) 28-38. DOI:10.1016/j.snb.2004.02.019.
49. G. Bazylak, L.J. Nagels, M.E. Monge, "Macrocycle versus podant-type neutral ionophore in potentiometric detection of mucolytic agents following separation by various HPLC modes" ***Chromatographia*** *57* (**2003**) 757-765. DOI: 10.1007/BF02491762.
50. M.E. Monge, S.M. Bonesi and R. Erra-Balsells, "Synthesis and isolation of iodocarbazoles. Direct iodination reaction of N-substituted carbazoles" ***Journal of Heterocyclic Chemistry*** *39,* 1 (**2002**) 933-941. DOI: 10.1002/jhet.5570390513.

BOOK CHAPTERS

1. María Eugenia Monge*, Manuela R. Martinefski, Mariela Bollini, Lucas B. Pontel*, "UHPLC-HRMS-based analysis of S-hydroxymethyl-glutathione, GSH and GSSG in human cells", accepted in Methods in Molecular Biology, Springer Nature. (***corresponding authors**).

2. Christina Jones, María Eugenia Monge, Facundo M. Fernández. "Metabolite Profiling by Direct Analysis in Real Time Mass Spectrometry." In *Mass Spectrometry in Metabolomics: Methods and Protocols,* Series Methods in Molecular Biology, Vol. 1198, p 275-289. Editor: Daniel Raftery, Humana Press USA, Springer publishing group, NY, **2014**. ISBN 978-1-4939-1258-2.
3. María Eugenia Monge and Facundo M. Fernández. An Introduction to Ambient Ionization Mass Spectrometry. In *Ambient Ionization Mass Spectrometry.* Chapter 1, P 1-22. Series New Developments in Mass Spectrometry. Editors: Marek A. Domin and Robert B. Cody, The Royal Society of Chemistry, RSC Publishing, Cambridge, **2014**. ISBN**:** 978-1-84973-926-9.

PROCEEDINGS

1. M.E. Monge, B. D'Anna, C. George, "Photoenhanced uptake of NO_2 on soot" Geochimica et Cosmochimica Acta, 19th Annual VM Goldschmidt Conference, Davos, Switzerland, June 21-26, 2009.
2. M.E. Monge, L. Nagels, E.M. Andrade and R.M. Negri, "A novel design of potentiometric sensors for metal ions detection", 2nd international conference on the Electrochemical Promotion of Catalysis and its Applications (EPOCAP), Oléron Island, France, September 29th - October 3rd, 2008.
3. M. Langenheim, M. Lovino, M.E. Monge, D. Mizrahi, R.M. Negri: "Trends Towards An Electronic Nose-Electronic Tongue Fusion Applied to Discrimination of Wines". 1º Workshop: "Interdisciplinary aspects of Human-Machine Co-existence and Co-operation". Czech-Argentine Biennale Workshop "e – Golems", Prague, The Czech Republic, July 3-5, 2005.

RESEARCH GRANTS

- **2022-2024: Principal Investigator of the Project PICT-2020-SERIEA-01019 "**Metabolómica por Espectrometría de Masas para el Descubrimiento de Potenciales Biomarcadores de Pronóstico de Dengue y la Evaluación de Candidatos a Antivirales". ANPCYT funding, IF-2022-13675582-APN-DNFONCYT#ANPIDTYI
- **2021-2023**: **Principal Investigator of the Project** "Cuantificación de esteroides por espectrometría de masas como método diagnóstico de enfermedades pediátricas" para dar respuesta al Hospital de Pediatría S.A.M.I.C "Prof. Dr. Juan P. Garrahan", Funding: "ImpaCT.AR Ciencia y Tecnología" program. Collaborative Project with CEDIE and Hospital de Niños Dr. Ricardo Gutiérrez.
- **2021-2023**: **Principal co-Investigator of Project PIP 11220200102904CO** "Desarrollo de fármacos inhibidores de la entrada del virus del dengue, estudios fisicoquímicos y farmacocinéticos in vitro." Funding: CONICET. RESOL-2021-1639-APN-DIR#CONICET. Principal Investigator: Dra. Mariela Bollini.
- **2019-2021: Principal Investigator of the Project PICT-2018-02137** entitled "Metabolómica por Espectrometría de Masas para el Descubrimiento de Nuevos Biomarcadores en Cáncer". ANPCYT funding.
- **2019**: **CABBIO course coordinator**: "Health and Agro Metabolomics Applications using Mass Spectrometry and Nuclear Magnetic Resonance", Funding provided by Centro Argentino-Brasileño de Biotecnología, Ministry of Science, Technology and Productive Innovation, Argentina.

- **2017**: **CABBIO course coordinator**: "Biological Applications in Metabolomics using Mass Spectrometry and Nuclear Magnetic Resonance", CIBION, October 23rd- November 3rd, 2017. Funding provided by Centro Argentino-Brasileño de Biotecnología, Ministry of Science, Technology and Productive Innovation.
- **2017**: **Teaching Project E-C9**: "Untargeted metabolomics using Mass Spectrometry and Nuclear Magnetic Resonance analytical platforms", CIBION, July 3-8 2017. Funding provided by the National Mass Spectrometry System, Ministry of Science, Technology and Productive Innovation.
- **2016**: **Principal Investigator of the Project E-AC12**. Acquisition of a DART ionization source (IonSence Inc.) for ambient mass spectrometry-based metabolomics studies for disease diagnosis.
- **2016-2020**: **Principal Investigator from CIBION-CONICET** in the European network entitled "**MARSU**", acronym of MARine atmospheric Science Unravelled: Analytical and mass spectrometric techniques development and application from a Marie Skłodowska-Curie action of the program **Research and Innovation Staff Exchange (RISE), Horizon 2020, H2020-MSCA-RISE-2015**. **Grant Agreement No. 690958.**
- **2015-2018**: **Principal Investigator of the Project PRH-2013-0017 PICT-2015-0022**, entitled "Metabolic Profiling for cancer biomarker discovery using mass spectrometry." ANPCYT funding.
- **2015-2019**: **Responsible Investigator of the Project PICT-2014-3634**. "Study of RSUME role in the dynamics of HIF-VHL complex in response to hypoxia and cell metabolism by metabolomics and fluorescence o individual molecules" ANPCYT funding.

Participation as collaborator

- **2021-2024**: **Project** "Desarrollo de una nueva molécula de origen sintético como agente antiviral frente al virus de chikungunya: Ensayos preclínicos in vitro e in vivo." UNSAM-CONICET. (PE PPM L2B 0002/21). Funding: Agencia Nacional de Promoción de la Investigación, el Desarrollo Tecnológico y la Innovación. EX 2021-80634637-APN-DNFONARSEC#ANPIDTYI. Principal Investigator: Dr. Mariela Bollini, Technical Director: Dr. Diego E. Álvarez.
- **2022-2024**: Project PICT-2020-serieA-00089: "Desarrollo de nuevas metodologías analíticas para la determinación de marcadores de estrés oxidativo en matrices biológicas no convencionales mediante un abordaje de metabolómica dirigida por espectrometría de masas." Principal Investigator: Dr. Manuela Martinefski. ANPCYT funding.
- **2022-2024**: Project PICT-2020-SERIEA-00079: "Estudios de Farmacocinética y Farmacodinamia de novedosos candidatos moleculares para el tratamiento del hepatocarcinoma celular por Espectrometría de Masas." Principal Investigator: Dr. Malena Manzi. ANPCYT funding.
- **2021-2023**: Collaborator in the project PICT-2019-2019-01554: "Reprogramación inmunometabólica de macrófagos en la interacción con células trofoblásticas." Principal Investigator: Dr. Claudia Perez Leiros. ANPCYT funding.
- **2017-2020:** Collaborator in the project PRH-2014-0023: "Perfiles metabólicos para el descubrimiento de nuevos biomarcadores en cáncer utilizando resonancia magnética nuclear." Principal Investigator: Dr. Pablo A. Hoijemberg.

- **2017-2019:** Collaborator in the project PICT-2016-3801 Perfiles metabólicos para el descubrimiento de biomarcadores de cáncer de mama utilizando resonancia magnética nuclear." Principal Investigator: Dr. Pablo A. Hoijemberg.
- **2017**: Project PME "Resonancia Magnética Nuclear aplicada al análisis metabolómico de fluidos y tejidos biológicos, y materiales duros y blandos." Principal Investigator: Dr. Pablo A. Hoijemberg.
- **2017-2022:** Project PUE 055 awarded to CIBION "Métodos de análisis de alto desempeño en bio- y nanociencias." Principal Investigator: Dr. Pedro F. Aramendía.

Scientific Projects in which I have participated before my job at CIBION-CONICET:

2013: Emory University Pediatric Research Center Pilot Project: "Metabolomic Investigation of Molecular and Physiologic Mechanisms of Accelerated Lung Decline in CFRD." PI: Facundo M. Fernández.
2012: National Science Foundation: "Career: Research and Education in Ambient Mass Spectrometry with Applications in Counterfeit Drug Detection." PI: Facundo M. Fernández.
2011: PEGASOS FP7-ENV-2010-265148 "Pan-European Gas-AeroSOls-climate interaction Study". European Commission funding. The project involves 26 institutions from 15 countries. PI: Spyros Pandis, Co-PI: Christian George.
2009-2011: LIFE08 ENV/F/000487 PhotoPaq. "Demonstration of Photocatalytic Remediation Processes on Air Quality." European Commission funding. PI: Christian George.
2009-2011: PhotoDust. Agence Nationale de la Recherche: "Propriétés photocatalytiques des aérosols minéraux." PI: Christian George.
2008-2011: NEORAD. Agence Nationale de la Recherche: "Nouvelles sources hétérogènes de radicaux atmosphériques." PI: Jean-Francois Doussin, Co-PI: Christian George.
2008-2010: FP6-SUSTDEV. "EUCAARI: European Integrated Project on Aerosol, Cloud, Climate and Air Quality Interaction." The project involves 48 institutions from 25 countries. European Commission funding. PI: Markku Kulmala, co-PI: Christian George.
2007-2009: PHOTOBAT. Funding from PRIMEQUAL "Photochimie du bâti : sources et puits de polluants oxydants." PI: Christian George.
2007: "Realizzazione di un Centro regionale per il Controllo de Qualità di Oli Vergini d'Oliva." Funding from *Regione Sicilia* (Italia). PI: Pier Luigi San Biagio.
2005-2007: CONICET PIP 6382: "Diseño de matrices implantables de liberación controlada de fármacos y caracterización de la cinética de liberación mediante lenguas electrónicas y sistemas de análisis en flujo". PI: R. Martín Negri.
2004-2007: UBACYTX267: "Narices y Lenguas Electrónicas. Aplicación al estudio de la liberación de sistemas multicomponentes encapsulados en matrices." PI: R. Martín Negri.
08-10/2006: MEDIS Alfa II-0547-FCD Alfa Program from European Commission. PI: R. Martín Negri.
04/2000-09/2001: UBACyT TW34: "Estudio del comportamiento fotoquímico de sustancias orgánicas naturalmente o artificialmente expuestas a radiación UV- fotoquímica orgánica- fotoquímica ambiental. Aplicaciones analíticas de la fotoquímica orgánica". PI: Dra. Rosa Erra-Balsells.

TECHNOLOGY TRANSFER PROJECTS

05/2021: **Principal investigator in the Material Transfer Agreement** (MTA) between CONICET and **Restek Corp**. DI-2021-85-APN-GVT#CONICET.

2019: **Principal investigator in the technical agreement between** CONICET and Pampa Energy Foundation. IF-2019-01041269-APN-GVT#CONICET.

TEACHING EXPERIENCE

- **11/2022:** Workshop entitled "QA & QC en metabolómica", IV LAMPS Meeting, November 2-4, 2022, Cartagena, Colombia.
- **07/2022:** "Metabolómica por Espectrometría de Masas" winter course: "Tópicos en Espectrometría de Masa", Departamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, CABA, Argentina. Invited Professor.
- **03/2022:** "Metabolómica por espectrometría de masas: "Fundamentos, diseño experimental y herramientas de procesamiento de datos." Metabolomics course coordinated by MetCore and Universidad de los Andes in Bogotá, Colombia. Invited profesor *ad honorem.*
- **11/2021:** "Metabolómica No dirigida por Espectrometría de Masas: Aplicaciones en Carcinoma Celular Renal" virtual course: "I Curso Internacional de Metabolómica con Aplicación en Clínica, Tecnológico de Monterrey, Mexico. Invited professor *ad honorem.*
- **07/2021:** "Metabolómica por Espectrometría de Masas" virtual course: "Tópicos en Espectrometría de Masa", Departamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, CABA, Argentina. Invited professor a*d honorem*.
- **08/2020:** "Metabolómica por Espectrometría de Masas" en el curso virtual: "Tópicos en Espectrometría de Masa", Departamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, CABA, Argentina. Invited professor a*d honorem*.
- **09/2019**: Co-coordinator of CABBIO course entitled: "Metabolómica por espectrometría de masas y resonancia magnética nuclear aplicada a la salud y al sector agropecuario", CIBION, September 23 – October4, 2019.
- **08/2019**: I MetCore Metabolomics School "Fundamentals and applications of mass spectrometry-based metabolomics", Invited Speaker, Universidad de los Andes, Bogotá, Colombia.
- **04/2019**: "Metabolómica por Espectrometría de Masas" Química Biológica Superior, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Invited Professor.
- **08/2018:** "Introducción a la espectrometría de masas acoplada a cromatografía líquida", Sociedad Argentina de Farmacia y Bioquímica Industrial (SAFYBI), CABA, Argentina.
- **07/2018:** "Metabolómica por Espectrometría de Masas" winter course: "Tópicos en Espectrometría de Masa", Departamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, CABA, Argentina. Invited Professor.

- **10/2017**: Coordinator of the CABBIO course entitled "Biological Applications in Metabolomics using Mass Spectrometry and Nuclear Magnetic Resonance", CIBION, Argentina, October 23rd- November 3rd, 2017.
- **07/2017:** Coordinator of the postgraduate course entitled "Untargeted metabolomics using Mass Spectrometry and Nuclear Magnetic Resonance analytical platforms", CIBION, Argentina, July 3-8 2017.Teaching team: Dr. Arthur S. Edison (University of Georgia), Dr. Facundo M. Fernández (Georgia Institute of Techonology), Dr. Pablo A. Hoijemberg (CIBION), Dr. María Eugenia Monge (CIBION).
- **12/2016**: "Initial Training Course in Metabolomics, Nuclear Magnetic Rsonance Spectroscopy and Mass Spectrometry in Human Health", Fundación Instituto Leloir, Ciudad de Buenos Aires, Argentina. Invited Professor.
- **10/2016**: "Mass spectrometry applications to clinical studies" Universidad Nacional de Córdoba, Argentina. Invited Professor.
- **07/2016**:"Liquid Chromatography-High Resolution Mass Spectrometry-based Metabolomics for Disease Diagnosis" Postgraduate course, Science Department, National University of Luján, Buenos Aires, Argentina. Invited Professor.
- **05/2016**: "Mass Spectrometry-based Untargeted Metabolomics for Disease Diagnosis", CABBIO Course, Thomson Mass Spectrometry Laboratory, Campinas, Brazil. Invited Professor.
- **2004-2008**: Part time Teacher assistant of General Chemistry, Inorganic Chemistry and instrumental Analysis in the Inorganic, Analytical and Physical Chemistry Department. School of Sciences, UBA.
- **2003**: Full time Teacher assistant of General Chemistry in the Inorganic, Analytical and Physical Chemistry Department. School of Sciences, UBA.
- **1999-2001**: Teacher assistant of Analytical Chemistry and General Chemistry in the Inorganic, Analytical and Physical Chemistry Department as an undergraduate student. School of Sciences, UBA.

MENTORING

Research staff I currently supervise:
January 2019-present: Dr. Manuela Romina Martinefski, Research Staff CONICET at UBA.
November 2019-present: Dr. Malena Manzi, Research Staff CONICET at INTI.

Graduate students for whom I currently serve as advisor:
April 2017-present: Nicolás Zabalegui, doctoral fellow of CONICET, University of Buenos Aires, Buenos Aires, Argentina.
April 2021-present: Maximilian A. Rey, doctoral fellow of CONICET, University of Buenos Aires, Buenos Aires, Argentina

Graduate students for whom I currently serve as co-advisor:
April 2017-present: Gabriel Riquelme, doctoral fellow of CONICET, University of Buenos Aires, Buenos Aires, Argentina.

Technical Staff I currently supervise:
April 2017-present: Dr. Mariela Videla, Technical staff CONICET. She collaborates in offering mass spectrometry services to the national industry and the scientific community.

August 2020-present: Mariela A. García, Technical staff CONICET. She collaborates in offering mass spectrometry services to the national industry and the scientific community.

Postdoctoral fellows I currently supervise:
December 2022-present: Dr. Christoph Bueschl, Research fellow from The Austrian Academy of Sciences' Joint Excellence in Science and Humanities (JESH) programme.

Graduate students for whom I served as co-advisor:
April 2015-July 2018: Xiaoling Zang, Georgia Institute of Technology, Atlanta, Georgia, USA. Advisor: Prof. Facundo M. Fernández.

Research staff previously supervised:
August-December 2016: Dr. Mario Salazar, Research staff CONICET at IIDEFAR Rosario, Santa Fe, Argentina. He was trained in UPLC-QTOF-MS-based untargeted metabolomics method.

Postdoctoral fellows previously supervised:
April 2019-January 2019: Dr. Manuela Romina Martinefski, postdoctoral fellow of CONICET.
April 2017-October 2019: Dr. Malena Manzi, postdoctoral fellow of CONICET.
April 2016-August 2019: Dr. María Elena Knott, postdoctoral fellow of CONICET.
September 2018-March 2019: Dr. Manuela Romina Martinefski, postdoctoral fellow of National Research Cancer Institute.
August 2016-March 2017: Dr. Malena Manzi, postdoctoral fellow of National Research Cancer Institute.
April 2017-February 2019: Dr. Juan Manuel Gurevich Messina, postdoctoral fellow of CONICET.
August-October 2015: Dr. Pablo A. Hoijemberg, now CONICET Research staff.

Students and research staff who have performed stances in my group:
October-November 2019: Dr. Antoinette Boreave, IRCELYON, France.
June-July 2018: Dr. Nathalie Hayeck, IRCELYON, France.
June-July 2018: Antoine Depoorter, IRCELYON, France.
August-December 2016: Daniela Putrino, University of Buenos Aires, Argentina.
February-March 2015: Kate Mill, University of Toronto, Canada.

REVIEWING ACTIVITIES

2022-present: Reviewer of CONICET Fellowship applications.
08/2022: Reviewer of PICT projects financed by the Argentine Agency I+D+i (Agencia Nacional de Promoción de la Investigación, el Desarrollo Tecnológico y la Innovación) through FONCyT (Fondo para la Investigación Científica y Tecnológica).
06/2022: Reviewer of oral and poster abstracts for the 18th Annual Conference of the Metabolomics Society, 19-23 June 2022, Valencia, Spain.
05/2022: Reviewer of Research Projects for Assistant and Associate CONICET research staff 2022-2023.
12/2021: Reviewer of New Research Staff of CONICET.

07/2021: Thesis committee member of the PhD student Nancy Paola Duarte Delgado, Pontificia Universidad Javeriana, Colombia.
Since 2020: Editorial Board Member of GIGAbyte journal.
09/2020: I+D Project CSIC, Universidad de la República (UdelaR), Uruguay.
04/2020: Reviewer of Promotions from CONICET Research Staff.
03/2020: Peer evaluator for the call of research proposals in the frame of Frontier Science 2019, CONACYT, Mexico.
02/2019-present: Guest Editor of the Special Issue entitled "Mass Spectrometry-Based Metabolomics: Challenges and Applications" in ***Metabolites*** (MDPI).
11/2019: Reviewer of Agencia Nacional de Investigación e Innovación (ANII) of Oriental Republic of Uruguay. Program for Acquisition of Instrumentation (PEC_ 3).
11/2018: Courses for Latin America and Caribean from United Nations University (UNU-BIOLAC).
08/2018: I+D Project CSIC, Universidad de la República (UdelaR), Uruguay.
06/2018: Reviewer of New Research Staff of CONICET.
07/2017: Reviewer of New Research Staff of CONICET.
06/2017: Reviewer of New Research Staff of CONICET.
04/2017: Reviewer of Postdoctoral Fellowships funded by National Agency of Research and Innovation (ANII) of Oriental Republic of Uruguay. (SNB 2016) Fondo Profesor Dr. Roberto Caldeyro Barcia.

PROVISIONAL PATENT APPLICATIONS

"Mass Spectrometry metabolic profiles as a diagnostic for prostate cancer", **provisional patent** submitted 05/23/2014. GTRC ID 6138. USPTO serial number 62/002,728. Inventors: Facundo M. Fernández, John McDonald, Alex Gray, Christina Jones, Xiaoling Zang, María Eugenia Monge (contribution: 20%).

JOURNAL PEER REVIEWING

- *Nature Chemistry (Springer Nature)*
- *Science Signaling (AAAS)*
- *iScience (Cell Press)*
- *EBioMedicine (The Lancet)*
- *Journal of Proteome Research (ACS)*
- *ACS Omega (ACS)*
- *Molecular Omics (RSC)*
- *Cancers (MDPI)*
- *Molecules (MDPI)*
- *Talanta (Elsevier)*
- *New Phytologist (Wiley)*
- *Journal of Chromatography B (Elsevier)*
- *Journal of the American Society for Mass Spectrometry (ACS)*
- *Metabolomics (Springer)*
- *Analytical Methods (RSC)*
- *The Analyst (RSC)*
- *Analytical Chemistry (ACS)*
- *Analytica Chimica Acta (Elsevier)*

- *Cancer Management and Research (Dove Medical Press)*
- *Carbohydrate Polymers (Elsevier)*
- *Metabolites (MDPI)*
- *Journal of Proteomics (Elsevier)*
- *Journal of Pharmaceutical and Biomedical Analysis (Elsevier)*
-*Translational Psychiatry (Springer Nature)*
- *PLOS ONE*
- *RSC Advances (RSC)*
- *Environmental Science & Technology (ACS)*
- *Science of the Total Environment (Elsevier)*
- *Molecular BioSystems (RSC)*
- *Journal of the Air & Waste Management Association.*
- *Journal of Dietary Supplements*
- *Hormone Molecular Biology and Clinical Investigation*
- *Journal of Applied Physiology*
- *International Journal of Environmental Research and Public Health*

HONORS, AWARDS, AND RECOGNITIONS

2022 **Vice-President of the Argentine Mass Spectrometry Society**

2022 **Best Poster award** in Basic Research to the work entitled "Reversión Metabólica postquirúrgica en pacientes con carcinoma cellular renal de células claras", M. Manzi, N. Zabalegui, M.E. Monge, XXV Jornadas Multidisciplinarias de Oncología, October 13-14, 2022, Buenos Aires, Argentina.

2022 **Awarded Poster** entitled "Deasorrollo y validación de un método por LC-APCI-MS/MS para la cuantificación simultánea de 8 esteroides séricos de relevancia en endocrinología pediátrica", M.R. Martinefski, V. Ambao, M.E. Rodriguez, M.G. Ballerini, R. Rey, M.E. Monge, M. G. Ropelato, IV Argentine Mass Spectrometry Conference, San Luis, Argentina, October 26-28, 2022.

2022 **Elected member** of the **Board of Directors** of the **Metabolomics Society** since October 2022 for a 2-year period.

2022 **"The Metabolomics Society Medal"** as a recognition from the Board of Directors of the Metabolomics Society of the Metabolomics Society as a recognition of excellence in the career.

2022 **"Females in Mass Spectrometry Empowerment Award"** as a recognition of dedication to mass spectrometry research and applications.

2022 **Invited Participant** of the Dagstuhl Seminar entitled "Computational Metabolomics: from spectra to knowledge", Dagsthul, Germany, 1-6 May 2022. https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=22181

2021 **Two** publications selected for the virtual issue of the American Chemical Society (https://doi.org/10.1021/acs.analchem.8b04259, https://doi.org/10.1021/acs.jproteome.8b00538) authored by Latin American researchers from 2018 to 2021, and entitled "Scents and Flavors of Mass Spectrometry in Latin America" (https://pubs.acs.org/page/vi/mass-spectrometry-latin-america).

2019 **Awarded Poster** entitled "Estudio metabolómico no dirigido para el análisis de la influencia de RSUME en los perfiles metabólicos de tumores von Hippel-Lindaudependientes", M.R. Martinefski, M.E. Knotta, J.M. Gurevich Messina, L. Tedesco, B. Elguero, D. Golniski, C. Pollak, E. Arzt, M.E. Monge, 10th Argentine

Analytical Chemistry Conference, Santa Rosa, La Pampa, September 17-20, 2019. Poster award in the Analytical Chemistry Applications Section of the Conference.

2019 **Best Flash-Poster presentation** to the work entitled Mass Spectrometry-based non-targeted lipidomics study for biomarker discovery in clear cell renal cell carcinoma, M. Manzi, M. Palazzo, M. E. Knott, N. Zabalegui, P. Beauseroy, P. Yankilevich, M. I. Giménez, M. E. Monge, 4th International Mass Spectrometry School, Sitges, Spain, September 15-20, 2019.

2018 Accésit 2 **Poster Award** for Basic Research to the work entitled "Tecnología metabolómica aplicada al estudio de la interacción de RSUME con la proteína von Hippel-Lindau en un modelo in vitro de células de Carcinoma Renal humanas", J. M. Gurevich Messina, M. E. Knott, L. Tedesco, B. Elguero, C. Pollak, E. Arzt, M. E. Monge. XXXIII Jornadas Multidisciplinarias del Instituto de Oncología Ángel H. Roffo, Ciudad de Buenos Aires, 3-4 de octubre de 2018.

2016 **ACS Pittcon Travel Grant** to attend the 2017 Pittsburg Conference on Analytical Chemistry & Applied Spectroscopy (Pittcon), Chicago, Illinois, USA, March 5-9, 2017. **American Chemical Society (ACS) Committee on International Activities and ACS Office of International Activities**.

2013 **Awarded Poster** entitled "Metabolomics of Disease Progression in an Ovarian Cancer Dicer-Pten Double Knockout Mouse Model." C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández. Georgia Tech Research and Innovation Conference, Atlanta, USA, February 2nd, 2013.

2009 **ACCENT-Goldschmidt Young Scientist Travel Award** (ACCENT *Aerosols Joint Research Programme*) to attend the Goldschmidt Conference 2009: Challenges to Our Volatile Planet, Davos, Switzerland.

2007 **Best Poster** in the section "Pysical chemistry applied to the analysis and technology" entitled "Desarrollo de sensores potenciométricos para la detección de iones metálicos en agua". María Eugenia Monge, Yamili Toum, Luc Nagels, Estela Andrade and R. Martín Negri; XV Congreso Argentino de Fisicoquímica y Química Inorgánica, Tandil, Buenos Aires, Argentina, April 17-20 2007.

2002 **European Union Travel Grant** to attend 5th Green Chemistry Summer School, Universidad Ca' Foscari, Venice, Italy.

INVITED TALKS AT UNIVERSITIES, PUBLIC HOSPITALS & INSTITUTES

- "Metabolómica no dirigida por espectrometría de masas: estrategias analíticas y aplicaciones en salud" Invited Lecture for the 166 Aniversary of the National Academy of Pharmacy and Biochemistry, University of Buenos Aires, "Espectrometría de masas en el diagnóstico y la investigación", August 11, 2022.
- "Estrategias de metabolómica por espectrometría de masas", Instituto de Química Física de los Materiales, Medio Ambiente y Energía (INQUIMAE), Facultad de Ciencias Exactas y Naturales, UBA, Argentina, August 23, 2021.
  https://www.youtube.com/watch?v=boO6NCx4OKU&t=15s
- "Estrategias de metabolómica por espectrometría de masas para aplicaciones en salud y medio ambiente", First LANYSC (Latin American Network of Young Scientists working in Chemistry) meeting entitled "Espectrometría de masas y Redes Internacionales de Colaboración: conectando académicos latinoamericanos al tejido industrial", organized by Universidad de la Frontera y la red LANYSC, July 21, 2021.

- "TidyMS: A preprocessing tool for untargeted workflows", Early Career Member Network of the Metabolomics Society, Virtual seminar, April 27, 2021. https://metabolomicssociety.org/resources/multimedia-2/emn-webinars-2021
- "Mass spectrometry-based metabolomics for renal cell carcinoma biomarker discovery", Instituto Nacional de Tecnología Industrial (INTI), Buenos Aires, Argentina, August 26th 2019.
- "Mass spectrometry-based oncometabolomics for renal cell carcinoma biomarker discovery", International Agency for Research on Cancer (IARC), Lyon, France, July 9th 2019.
- Metabolomics 2019 Career Night, Roundtable Discussant at the 15th Annual Conference of the Metabolomics Society: Setting Up and Managing Your First Lab, The Hague, The Netherlands, June 23rd 2019.
- "MARSU MARine atmospheric Science Unravelled: Analytical and mass spectrometric techniques development and application", Successful MSCA cases in Argentina. Info day: Cooperation Oportunities between Latin American and Europe, Biblioteca Centro Cultural de la Ciencia, Ministerio de Educación, Cultura, Ciencia y Tecnología, Ciudad Autónoma de Buenos Aires, Argentina, June 10th 2019.
- "Mass Spectrometry-based Oncometabolomics", Fundación Instituto Leloir, Ciudad de Buenos Aires, Argentina, December 1st, 2016.
- "Estudios metabolómicos por espectrometría de masas para el diagnóstico de enfermedades" Instituto de Química Física de los Materiales, Medio Ambiente y Energía (INQUIMAE), Facultad de Ciencias Exactas y Naturales, University of Buenos Aires, November 14th, 2016.
- "Estudio metabolómico para el diagnóstico de enfermedades", Hospital Gutierrez, Ciudad de Buenos Aires, August 8th, 2016.
- "Estudio metabolómico para el diagnóstico de cáncer", Hospital J.M. Ramos Mejía. Ciudad de Buenos Aires, November 10th, 2015.
- "Metabolómica aplicada al diagnóstico de cáncer por espectrometría de masas", Instituto de Investigación para el Descubrimiento de Fármacos de Rosario (IIDEFAR), Rosario, Junio 17th, 2015.
- "Análisis de perfiles metabólicos para el diagnóstico de cáncer por espectrometría de masas", Organic Chemistry Department, School of Science, UBA, October 29th, 2014
- "Espectrometría de masas como herramienta analítica en oncometabolómica", Instituto de Oncología Ángel H. Roffo, April 9th, 2014.
- "Espectrometría de masas como herramienta analítica en oncometabolómica", Ateneo del Hospital Italiano de Buenos Aires, March 31th, 2014.
- "Espectrometría de masas como herramienta analítica en oncometabolómica y en la identificación de medicamentos fraudulentos" Centro de Investigaciones en Bionanociencias (CIBION), March 13th, 2014.
- "Photosensitized processes occurring on tropospheric organic/inorganic aerosols-Projet PHOTOAERO (JCJC 2008)" Seminaire de Restitution et d'avancement des projets ANR sur les "Changements Environnementaux", Montpellier, France, March, 2011.
- "Light changes the atmospheric reactivity of soot", IRCELYON, Lyon, France, January, 2011.
- "Encapsulamiento de compuestos volátiles en geles de pectinas y detección por nariz electrónica". Mar del Plata National University, August 16th, 2002.
- "Smelling flavours encapsulated in pectin gels using an electronic nose", Biophysical Institute of Palermo, Consiglio Nazionale delle Ricerche, Palermo, Italy, September 23rd, 2002.

CONFERENCES AND SYMPOSIA (135 contributions)

Invited Oral Presentations:

1. M.E.Monge, “Estrategias analíticas y herramientas de metabolómica no dirigida para estudios en salud humana”, Plenary Lecture at IV Argentine Mass Spectrometry Conference (IV CAEM) October 26-28, 2022, San Luis, Argentina.
2. M.E.Monge, “Mass spectrometry-based metabolomics strategies for improving diagnosis and prognosis of genitourinary cancers”, International Meeting on Human Microbiome: Research Initiatives Around the World, October 20-21, 2022, Hospital Italiano de Buenos Aires, Argentina.
3. M.E.Monge, “Mass spectrometry-based oncometabolomics strategies for improving diagnosis of genitourinary cancers” October 13-14, 2022, XXXV Jornadas Multidisciplinarias de Oncología, Hilton Hotel, Buenos Aires, Argentina.
4. M.E.Monge, M. Manzi, N. Zabalegui, “Evaluating a lipid panel for clear cell renal cell carcinoma prognosis” 10th International Singapore Lipid Symposium (iSLS), On-site-On-line, March 8-10, 2022.
5. M. E. Monge, "Metabolómica No Dirigida por Espectrometría de Masas: Estrategias Analíticas, Aplicaciones y Herramientas”, Plenary speaker, XI Congreso Argentino de Química Analítica (virtual), November 30- December 3, 2021.
6. M. E. Monge, "Metabolómica por espectrometría de masas ambiente para la caracterización de muestras de agua de mar." Conferencia virtual en el workshop "Mujeres Latinoamericanas y la Metabolómica" Natural Products Division (DPN) Brazilian Chemistry Society (SBQ), September 29, 2021.
7. G. Riquelme, N. Zabalegui, P. Marchi, C. M. Jones and M. E. Monge, “TidyMS”: a Python-based tool for preprocessing LC-MS data in untargeted metabolomics and lipidomics workflows, 9th International Singapore Lipid Symposium (iSLS), On-site-On-line, March 1-5 2021. Lipid Standarisation/Identification section.
8. M. E. Monge, M. Manzi, N. Zabalegui, M. R. Martinefski, G. Riquelme, M. E. Knott, M. Palazzo, P. Beauseroy, P. Yankilevich, M. I. Giménez, “Mass spectrometry-based strategies for improving diagnosis of clear cell renal cell carcinoma”, 16th Annual Conference of the Metabolomics Society Metabolomics2020 Online, October 27-29 2020. Charla Plenaria.
9. Monge M. E. “Espectrometría de masas para identificar potenciales biomarcadores de diagnóstico de enfermedades”, CaracterizAR 2020, Virtual meeting, September 9-11, 2020.
10. Monge M. E. “Perfiles metabólicos para el descubrimiento de nuevos biomarcadores en cancer utilizando espectrometría de masas”, XXI Congreso y XXXIX Reunión Anual de la Sociedad de Biología de Rosario 2019, Rosario, Argentina, November 26-27, 2019.
11. Monge M. E., Manzi M., Zabalegui N., Knott M. E., Palazzo M., Yankilevich P., Beauseroy P., Giménez M. I., “Mass spectrometry-based metabolomics for renal cell carcinoma biomarker discovery”, 8th Symposium of the Mexican Proteomics Society, 3rd PanAmerican-Human Proteome Organization (Pan-HUPO) Meeting, and 2nd Ibero-American Symposium on Mass Spectrometry, Acapulco, Mexico, October 20-23, 2019.
12. M. E. Monge, M. Manzi, M. E. Knott, N. Zabalegui, M. Salazar, L. Puricelli, “A metabolic footprinting study for kidney cancer detection,” 3rd Latin American Metabolic Profiling Symposium, Río de Janeiro, Brazil, October 22-24, 2018.

13. M. E. Monge, "Mass spectrometry-based oncometabolomics for diagnostic applications", Workshop "Cancer Perspectives" Instituto de Biomedicina de Buenos Aires-CONICET Partner Institute of the Max Planck Society (IBioBA-MPSP), Ciudad de Buenos Aires, Argentina, October 11-12, 2017.
14. M. E. Monge, "Espectrometría de masas aplicada en oncometabolómica y en la identificación de medicamentos fraudulentos", EXPOFYBI 2017, IV Congreso Latinoamericano de Farmacia y Bioquímica Industrial, XV Congreso Argentino de Farmacia y Bioquímica Industrial, Ciudad de Buenos Aires, Argentina, August 8-11, 2017.
15. M. E. Monge, X. Zang, N. A. McCarty, A. Stecenko, and F. M. Fernández, "A Feasibility study on the early detection of acute pulmonary exacerbations by exhaled breath condensate metabolomics", III Congreso Argentino de Espectrometría de Masas, Rosario, Santa Fe, Argentina, November 22-24, 2016.
16. M. E. Monge, X. Zang, C. M. Jones, L. Q. Tran, M. Zhou, L. D. E. Walker, R. Mezencev, A. Gray, J.F. McDonald, F. M. Fernández, "High accuracy prostate cancer detection using human blood serum metabolomics profiling", 2nd Latin American Metabolic Profiling Symposium, Rosario, Santa Fe, Argentina, October 11-12, 2016.

Contributed Oral Presentations:

1. M. E. Knott, L. I. Puricelli and M. E. Monge, "Feasibility of utilizing untargeted lipidomic profiling for detection of clear cell renal cell carcinoma", 2017 Pittsburg Conference on Analytical Chemistry & Applied Spectroscopy (Pittcon), Chicago, Illinois, USA, March 5-9, 2017.
2. F. M. Fernández, X. Zang, C. M. Jones, T. Q. Long, M. E. Monge, M. Zhou, L. D. Walker, A. Gray, N. Shah, R. Laungani, J. F. McDonald, "High Accuracy Prostate Cancer Detection Using Human Blood Sera Metabolomic Profiling." The 9th Annual Symposium on Prostate Cancer, Center for Cancer Research and Therapeutic Development, Cancer Clark Atlanta University, Atlanta, USA, March 17-20, 2013.
3. M.E. Monge, B. D'Anna and C. George, "Photocatalytic products of the NO_2 de-polluting process" 2nd Sino-French Joint Workshop on Atmospheric Environment, Orleans, France, December 6-9, 2010.
4. M.E. Monge, B. D'Anna and C. George, "Photocatalytic products of the NO_2 de-polluting process" SP3 Third International Conference on Semiconductor Photochemistry, Glasgow, Scotland, April 12-16, 2010.
5. M.E. Monge, B. D'Anna, C. George, "Photoenhanced uptake of NO_2 on soot". Goldschmidt2009, Davos, Switzerland, June 21-26, 2009.
6. M.E. Monge, R. M. Negri, D. Giacomazza y D. Bulone; "Caracterización de geles de pectinas por reología" XIV Congreso Argentino de Fisicoquímica y Química Inorgánica, Termas de Río Hondo, Santiago del Estero, Argentina, April 11-14, 2005.

Poster Presentations / Oral Presentations presented by co-authors: 100 presentations in national or international conferences.

1. T. Schmidt De León, M. L. Salum, Y. Matsushita, K. Fukushima, M. E. Monge, R. Erra-Balsells, "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", IBERO2022 3rd Iberoamerican Conference on Mass Spectrometry, December 10-15, Rio de Janeiro, Brazil.

2. N. Zabalegui, M. Rey, M. Manzi, G. Riquelme, and M. E. Monge, "In search of potential biomarker panels for ccRCC detection: Integrative metabolomics approaches" IV LAMPS Meeting, November 2-4, 2022, Cartagena, Colombia. Oral presentation.
3. M. Rey, D. Fidalgo, M. Bollini, M. V. Tribulatti, D. Álvarez, M. E. Monge, "Contributing to preclinical in vitro and in vivo studies of an anti-Chikungunya drug candidate by means of LC-MS-based metabolomics strategies" IV LAMPS Meeting, November 2-4, 2022, Cartagena, Colombia. Oral presentation.
4. M. Videla, M. A. García, F. Merech, D. M. Vota, C. Perez Leiros, M. E. Monge, "Detección de ácidos orgánicos producidos por células trofoblásticas" IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
5. M. Rey, D. Fidalgo, M. Bollini, M. V. Tribulatti, D. Álvarez, M. E. Monge, "Estrategias de metabolómica por LC-MS aplicadas al estudio in vitro e in vivo de un candidato a fármaco contra el chikungunya", IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
6. N. Zabalegui, M. Rey, M. Manzi, G. Riquelme, and M. E. Monge, "N. Zabalegui, M. Rey, M. Manzi, G. Riquelme, and M. E. Monge, "Abordajes de metabolómica para la identificación de potenciales biomarcadores de Carcinoma Celular Renal de células claras" IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
7. M. R. Martinefski, M. Manzia, I. Linenberg, S. Giusti, D. Refojod, M. E. Monge, "Desarrollo de una estrategia de metabolómica no dirigida para evaluar el impacto de NEDD8 sobre el perfil metabólico neuronal" IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
8. M.R. Martinefski, V. Ambao, M.E. Rodriguez, M.G. Ballerini, R. Rey, M.E. Monge, M. G. Ropelato "Deasorrollo y validación de un método por LC-APCI-MS/MS para la cuantificación simultánea de 8 esteroides séricos de relevancia en endocrinología pediátrica", IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
9. M. Manzi, N. Zabalegui, M.E. Monge, "Evaluación de Reversión Metabólica postquirúrgica en pacientes con carcinoma cellular renal de células claras", IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
10. T. Schmidt De León, M. L. Salum, Y. Matsushita, K. Fukushima, M. E. Monge, R. Erra-Balsells, "ESI-MS como herramienta para comprender el comportamiento de los ácidos Z y E-sinapínicos como matrices MALDI a nivel molecular: Estudio de complejos con carbohidratos" IV Congreso Argentino de Espectrometria de Masa, October 26-28, 2022, San Luis, Argentina.
11. M. Manzi, N. Zabalegui, M.E. Monge, "Reversión Metabólica postquirúrgica en pacientes con carcinoma cellular renal de células claras", XXV Jornadas Multidisciplinarias de Oncología, October 13-14, 2022, Buenos Aires, Argentina.
12. N. Zabalegui, M. Rey, M.E. Monge, "Abordajes de metabolómica para la detección de Carcinoma Celular Renal de células claras" XXV Jornadas Multidisciplinarias de Oncología, October 13-14, 2022, Buenos Aires, Argentina.
13. N. Zabalegui, M. Rey, M. Manzi, G. Riquelme, and M. E. Monge, "Evaluating lipid fingerprints for clear cell renal cell carcinoma prognosis" 18th Annual Conference of the Metabolomics Society, June 19-23, 2022, Valencia, Spain.
14. M. E. Monge, M. Manzi, M. Martinefski, F. Torta, M. R. Wenk, M. P. Cala, "Interlaboratory Comparative Results from Ceramide Quantitation in Human Plasma Samples," XI Congreso Argentino de Química Analítica (virtual), November 30-December 3, 2021.

15. M. Martinefski, G. Riquelme, N. Zabalegui, M. Rey, M. Manzi, M. E. Monge, "Diseño Experimental y Prácticas de Control de Calidad en Estudios de Metabolómica No Dirigida por Espectrometría de Masas", XI Congreso Argentino de Química Analítica (virtual), November 30- December 3, 2021.
16. M. E. Monge, M. R. Martinefski, B. Elguero, M. E. Knott, D. Gonilski, L. Tedesco, J. M. Gurevich Messina, C. Pollak, E. Arzt, "Unveiling the Role of RSUME in Renal Cell Carcinoma Cell Metabolism by means of a Mass Spectrometry-Based Metabolic Fingerprinting Strategy" 17th Annual Conference of the Metabolomics Society Metabolomics2021 Online, June 22-24, 2021.
17. N. Zabalegui, G. Riquelme, M. Manzi and M. E. Monge, "A pipeline for pre-processing and assessing data quality in a Clear Cell Renal Cell Carcinoma (ccRCC) case study" 17th Annual Conference of the Metabolomics Society Metabolomics2021 Online, June 22-24, 2021.
18. Carla Umansky, Marco Scheidegger, Agustin Morellato, Matthias Rieckeher, Manuela R. Martinefski, Gabriela A. Fernandez, Mariela Bollini, María Eugenia Monge, Björn Schumacher and Lucas B. Pontel, "Formaldehyde inflicts cytotoxicity by altering the glutathione redox balance" 22nd EMBL PhD symposium, November 27-28 2020, virtual.
19. Agustín Morellato, Marco Scheidegger, Carla Umansky, Manuela R. Martinefski, Gabriela A. Fernandez, Mariela Bollini, María Eugenia Monge and Lucas B. Pontel, "A novel role of an old friend: Cellular glutathione protects cells from formaldehyde toxicity" SAIC (Sociedad Argentina de Investigación Clínica), November 10-13, 2020, virtual.
20. N. Zabalegui, M. Manzi, A. Depoorter, N. Hayeck, M. Roveretto, C. Li, M. van Pinxteren, H. Herrmann, C. George, and M. E. Monge, "Seawater Analysis by TM-DART-QTOF-MS-Based Metabolomics", 16th Annual Conference of the Metabolomics Society Metabolomics2020 Online, October 27-29, 2020. Oral presentation.
21. G. Riquelme, N. Zabalegui, P. Marchi, C. M. Jones, M. E. Monge, "TidyMS: a Python library for preprocessing LC-MS data in untargeted metabolomics workflows", 16th Annual Conference of the Metabolomics Society Metabolomics2020 Online, October 27-29, 2020.
22. B. Elguero, M. R. Martinefski, D. Gonilski, M. E. Knott, L. Tedesco, J. M. Gurevich Messina, C. Pollak, M. E. Monge and E. Arzt, "The impact of RSUME in renal cell carcinoma cell metabolism being affected by VHL status", 14th International VHL Medical/Research Symposium, October 29-31, 2020, virtual.
23. N. Zabalegui, M. Manzi, A. Depoorter, N. Hayeck, M. Roveretto, C. Li, M. van Pinxteren, H. Herrmann, C. George and M. E. Monge, "Analysis of Oceanic Systems by TM-DART-QTOF-MS-Based Seaomics", ASMS 2020 Reboot, 1-12 de junio 2020.
24. N. Zabalegui, G. Riquelme, C. Jones, M. E. Monge, "Plasma analysis by UHPLC-QTOF-MS for a NIST pilot interlaboratory study", Virtual Podium session 1, March 27, 2020.
25. Budnik N, Muñoz-Bernart M, Manzi M, Castro A, Vigliano C, Monge ME, Espinosa JM, Mostoslavsky G, Perez-Castro, "Differential Role of Ahcyl1 Gene in Tumor Plasticity." SAIC-SAFE-SAB-SAP. Reunión Anual de Sociedades en Biociencia. Mar del Plata. Buenos Aires, Argentina. C. Mar del Plata. Buenos Aires, Argentina, November 13-16, 2019.
26. Muñoz-Bernart M, Budnik N, Manzi M, Castro A, Vigliano C, Monge ME, Espinosa JM, Mostoslavsky G, Perez-Castro, C. "Ahcyl1 as a Regulator of Cellular Plasticity in

Lung Cancer." SAIC-SAFE-SAB-SAP. Reunión Anual de Sociedades en Biociencia. Mar del Plata. Buenos Aires, Argentina. November 13-16, 2019.

27. Muñoz-Bernart M*, Budnik N*, Manzi M, Castro A, Vigliano C, Monge ME, Espinosa JM, Mostoslavsky G, Perez-Castro, C. "AHCYL1 como nuevo candidato en la regulación de la plasticidad celular tumoral pulmonar." XXXIV Jornadas Multidisciplinarias 2019. Oncología Traslacional y Enfoque Multidisciplinario: desafíos actuales y futuros. Buenos Aires, Argentina, October 1- November 1, 2019.
28. M. Manzi, M. Palazzo, M. E. Knott, N. Zabalegui, P. Beauseroy, P. Yankilevich, M. I. Giménez, M. E. Monge, "Mass Spectrometry-based non-targeted lipidomics study for biomarker discovery in clear cell renal cell carcinoma," 4th International Mass Spectrometry School, Sitges, Spain, September 15-20, 2019
29. M.R. Martinefski, M.E. Knott, J.M. Gurevich Messina, L. Tedesco, B. Elguero, D. Golniski, C. Pollak, E. Arzt, M.E. Monge, "Estudio metabolómico no dirigido para el análisis de la influencia de RSUME en los perfiles metabólicos de tumores von Hippel-Lindaudependientes", 10 Congreso Argentino de Química Analítica, Santa Rosa, La Pampa, September 17-20, 2019.
30. M. E. Monge, M. Manzi, M. Palazzo, N. Zabalegui, M. E. Knott, P. Beauseroy, P. Yankilevich, M. I. Giménez, "A Coupled Lipidomics-Machine Learning Approach for Early Diagnosis of clear cell Renal Cell Carcinoma", Metabolomics 2019, The Hague, The Netherlands, June 23 -27, 2019.
31. K. Zanetti, Fadi Abdi, Abbas Bandukwala, Aiko Barsch, Dan Bearden, Richard Beger, Bianca Bethan, David Broadhurst, Clary Clish, Surendara Dasari, Leslie Derr, Suraj Dhungana, Warwick Dunn, Tim Ebbels, Annie Evans, Steve Fischer, Roberto Flores, Thomas Flynn, Charles Grieser, Thomas Hartung, Majda Haznadar, David Herrington, Rick Higashi, Ping-Ching Hsu, Christina Jones, Judith Jans, Maureen Kachman, Jennifer Kirwan, Andre Kleensang, Matthew Lewis, Katrice Lippa, Padma Maruvada, Sven Meyer, Maria Eugenia Monge, Jonathan Mosley, Ioanna Ntai, Claire O'Donovan, George Papanicolaou, Rui Pinto, Mary Playdon, Dan Raftery, Sharon Ross, Michael Schmidt, Tracey Schock, Amanda Souza, Jinchun Sun, Fariba Tayyari, Georgios Theodoridis, Frederico Torta, Baljit Ubhi, Vidya Velagapudi , Mukesh Verma, Mark Viant, Dajana Vuckovic, Li-Rong Yu, Tilmann Walk, Ian Wilson, "mQACC: A community-led initiative to promote quality assurance and quality control in untargeted metabolomics research", Metabolomics 2019, The Hague, The Netherlands, June 23 -27, 2019.
32. M. Manzi, M. Palazzo, N. Zabalegui, M. E. Knott, P. Yankilevich, M. I. Giménez, L. I. Puricelli, M. E. Monge, "A mass spectrometry-based lipidomics study for early diagnosis of clear cell renal cell carcinoma", 3rd International Electronic Conference on Metabolomics, November 15-30, 2018.
33. J. M. Gurevich Messina, M. E. Knott, L. Tedesco, B. Elguero, C. Pollak, E. Arzt, M. E. Monge, "Tecnología metabolómica aplicada al estudio de la interacción de RSUME con la proteína von Hippel-Lindau en un modelo in vitro de células de Carcinoma Renal humanas", XXXIII Jornadas Multidisciplinarias del Instituto de Oncología Ángel H. Roffo, Ciudad de Buenos Aires, October 3-4, 2018.
34. Manzi, M.; Zabalegui, N.; Palazzo, M.; Knott, M. E.; Yankilevich, P.; Giménez, M. I.; Puricelli, L. I.; Monge, M. E.; "Estudios Metabolómicos Aplicados al Descubrimiento de Nuevos Biomarcadores en Carcinoma Celular Renal de Células Claras por Espectrometría de Masas", XXXIII Jornadas Multidisciplinarias del Instituto de Oncología Ángel H. Roffo, Ciudad de Buenos Aires, October 3-4, 2018. Oral presentation.

35. N. Zabalegui, M. Manzi, M. E. Knott, L. I. Puricelli and M. E. Monge "Non-targeted Metabolomics: A strategy for discovering potential clear cell Renal Cell Carcinoma biomarkers", Frontiers in Bioscience 3, Ciudad de Buenos Aires, Argentina, September 17-19, 2018.
36. Knott M. E., Manzi, M., Salazar M. O., Puricelli L. I., Monge M. E., "Altered Metabolic Pathways Identified in Clear Cell Renal Cell Carcinoma by Mass Spectrometry-based Footprinting", 2018 Pittsburg Conference on Analytical Chemistry & Applied Spectroscopy (Pittcon), Orlando, Florida, USA, February 26-March 1, 2018.
37. X. Zang, M. E. Monge, D. A. Gaul, F. M. Fernández, "High throughput ion mobility-mass spectrometry metabolomics for prostate cancer detection." 2018 Pittsburg Conference on Analytical Chemistry & Applied Spectroscopy (Pittcon), Orlando, Florida, USA, February 26- March 1, 2018.
38. Manzi, M., Knott M. E., Zabalegui, N., Salazar M. O., Puricelli L. I., Monge M. E., "A Mass Spectrometry-based untargeted metabolomics approach for studying clear cell renal cell carcinoma using an in vitro model", Reunión Conjunta de Sociedades de Biociencias, Ciudad de Buenos Aires, Argentina, November 13-17, 2017.
39. Leal, E. S., Battini, L., Pascual, M.J., Gurevich Messina, J. M., Monge, M.E., Cavasotto, C. N., Álvarez, D. E., Bollini, M., "Identificación de pequeñas moléculas inhibidoras de la entrada del virus de la diarrea viral bovina a través del diseño guiado por computadora", XXI Simposio Nacional de Química Orgánica, Sociedad Argentina de Investigación en Química Orgánica, Potrero de los Funes, San Luis, Argentina, November 8-11, 2017.
40. Fidalgo, D. M., Monge, M. E., Sarotti, A., Kolender, A. y Varela, O., "Oligo(amida-triazoles) derivados de hidratos de carbono como receptores aniónicos", XXI Simposio Nacional de Química Orgánica, Sociedad Argentina de Investigación en Química Orgánica, Potrero de los Funes, San Luis, Argentina, November 8-11, 2017.
41. Leal, E. S., Battini, L., González Valdez, D., Pascual, M. J., Gurevich Messina, J. M., Monge, M. E., Álvarez, D. E., Bollini, M. "Síntesis y evaluación biológica de pequeñas moléculas inhibidoras de la entrada del virus de la diarrea viral bovina", XXI Simposio Nacional de Química Orgánica, Sociedad Argentina de Investigación en Química Orgánica, Potrero de los Funes, San Luis, Argentina, November 8-11, 2017.
42. Krawiec, M.; De Candia, A.; Gottas, M.; Rusjan, M. C.; Coppari, M.; Ricci; M; Monge, M. E.; Risso Patron, J.C., "Adecuación de cromatografía líquida indicadora de estabilidad para su uso acoplado a QTOF-MS e identificación de cuatro sustancias relacionadas desconocidas en comprimidos farmacéuticos por UPLC-ESI-QTOF-MS". EXPOFYBI 2017, IV Congreso Latinoamericano de Farmacia y Bioquímica Industrial, XV Congreso Argentino de Farmacia y Bioquímica Industrial, Buenos Aires, Argentina, August 8-11, 2017.
43. M. E. Knott, M. Manzi, M. O. Salazar, L. I. Puricelli y M. E. Monge, "Estudio metabolómico de carcinoma celular renal de células claras en modelos in vitro", III Congreso Argentino de Espectrometría de Masas, Rosario, Santa Fe, Argentina, November 22-24, 2016.
44. M. E. Knott, L. I. Puricelli y M. E. Monge, "Desarrollo de un método lipidómico para el diagnóstico de carcinoma celular renal de células claras", III Congreso Argentino de Espectrometría de Masas, Rosario, Santa Fe, Argentina, November 22-24, 2016.
45. D. M. Fidalgo, M. E. Monge, A. Sarotti, A. Kolender y Oscar Varela, "Oligo(amida-triazoles) derivados de hidratos de carbono como receptores de aniones", III Congreso Argentino de Espectrometría de Masas, Rosario, Santa Fe, Argentina, November 22-24, 2016.

46. M. E. Knott, M. Manzi, M. O. Salazar, L. I. Puricelli, M. E. Monge, "Feasibility of detecting clear cell renal cell carcinoma by mass spectrometry-based metabolomics", Simposio Fronteras en Biociencia 2, Ciudad de Buenos Aires, Argentina, November 17-19, 2016.
47. M. E. Knott, L. I. Puricelli, M. E. Monge, "A metabolic footprinting study of clear cell Renal Cell Carcinoma cell lines", 2nd Latin American Metabolic Profiling Symposium, Rosario, Santa Fe, Argentina, October 10-12, 2016.
48. M. E. Knott, L. I. Puricelli, M. E. Monge, "Feasibility of detecting clear cell Renal Cell Carcinoma by ultraperformance liquid chromatography-mass spectrometry human serum lipidomics", 2nd Latin American Metabolic Profiling Symposium, Rosario, Santa Fe, Argentina, October 10-12, 2016.
49. M. E. Monge, X. Zang, N. A. Mc Carty, A. Stecenko, F. M. Fernández, "Feasibility of early detection of acute pulmonary exacerbations by exhaled breath condensate metabolomics", 2nd Latin American Metabolic Profiling Symposium, Rosario, Santa Fe, Argentina, October 10-12, 2016.
50. D. Fidalgo, M. E. Monge, A. Kolender, O. Varela, "Carbohydrate derived oligo(amidetriazoles) as anion binding receptors. NMR and MS analysis", 2016 International Carbohydrate Symposium, New Orleans, Louisiana, USA, July 17-22, 2016.
51. A.C. De Tomaso Portaz, M.E. Knott, L.I.Puricelli, M.E. Monge, "Estudio Metabolómico Preliminar para la Detección de Carcinoma Renal de células claras por Cromatografía Líquida de Ultra Performance acoplada a Espectrometría de Masas", International Symposium RAICES Programm. Argentine Network in the Northeast of USA "Ganando la guerra contra el cáncer", Ciudad de Buenos Aires, Argentina, May 12-13, 2016.
52. F. M. Fernández, J. J. Pérez, C. M. Jones, M. E. Monge, N. A. McCarty, A. A. Stecenko, "Cystic Fibrosis Breathomics by Transmission-Mode Direct Analysis in Real Time-Traveling Wave Ion Mobility-Mass Spectrometry", Pittcon 2016 Conference & Expo, Atlanta, GA, USA, March 6-10, 2016.
53. L. Winalski, C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Discovery Metabolomics of Early-Stage Ovarian Cancer in a Dicer-Pten Double Knockout Murine Model", Pittcon 2016 Conference & Expo, Atlanta, GA, USA, March 6-10, 2016.
54. X. Zang, M. E. Monge, N. A. McCarty, A. Stecenko, F. M. Fernández, "Feasibility of Early Detection of Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics", Pittcon 2016 Conference & Expo, Atlanta, GA, USA, March 6-10, 2016.
55. Facundo M. Fernández, Joel D. Keelor, Christina M. Jones, José J. Pérez, Rachel Bennett, Matthew Bernier, Martin R. L. Paine, Maria Eugenia Monge, David A. Gaul, Jaeyeon Kim, Martin M. Matzuk, Long Q. Tran, Roman Mezencev, John F. McDonald, Nael A. McCarty, Arlene A. Stecenko, "Ambient Ionization with Plasmas and Charged Droplets", William T. Wallace, Daniel B. Gazda, Henrik I. Christensen, XV Scientific Meeting of the Spanish Society of Chromatography and Related Techniques (SECyTA 2015)-VII National Meeting of the Spanish Society of Mass Spectrometry (SEEM 2015), Castellon de la Plana, Spain, October 27-30, 2015.
56. X. Zang, M. E. Monge, N. A. McCarty, A. Stecenko, F.M. Fernández, "Feasibility of early detection of acute pulmonary exacerbations by breathomics", 29th Annual North American Cystic Fibrosis Conference, Phoenix, AZ, USA, October 8-10, 2015.

57. M. E. Monge, P. Dwivedi, M. Zhou, D. Jenkins, P. N. Newton, F. M. Fernández, "A Tiered Analytical Approach for Investigating Poor Quality Emergency Contraceptives", SciX 2015, Providence, USA, September 27th - October 2nd, 2015.
58. X. Zang, M. E. Monge, N. A. McCarty, A. Stecenko, F. M. Fernández, "Exhaled Breath Condensate Cystic Fibrosis Markers Through the Eye of High Resolution Mass Spectrometry", SciX 2015, Providence, USA, September 27th - October 2nd, 2015.
59. Facundo M. Fernandez, David A. Gaul, Christina M. Jones, Maria Eugenia Monge, Martin R. L. Paine, Jaeyeon Kim, Martin M. Matzuk, Long Q. Tran, Roman Mezencev, John F. McDonald. "Imaging MS and Ion Mobility-MS Metabolomics for Detecting Ovarian Cancer", 25th Australian and New Zealand Society for Mass Spectrometry and 6th Asia Oceania Mass Spectrometry Conference, Brisbane, QLD, July 19-22, 2015.
60. F. M. Fernández, D. A. Gaul, C. M. Jones, M. E. Monge, M. R. L. Paine, L. Q. Tran, J. McDonald, "Phenotyping of early stage ovarian cancer by mass spectrometry untargeted metabolomics", 11th International Conference of the Metabolomics Society, San Francisco, USA, June 29- July 2nd, 2015.
61. X. Zang, M. E. Monge, N. A. McCarty, A. Stecenko, F. M. Fernández, "Feasibility of Early Detection of Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics", 63rd ASMS Conference on Mass Spectrometry & Allied Topics, St. Louis, USA, May 31st- June 4, 2015.
62. Monge, María E.; Jones, C. M.; Kim, J.; Matzuk, M. M.; Fernández, F. M., "Metabolomic Study of Early-Stage High-Grade Serous Ovarian Cancer in a Dicer-PTEN Double Knockout Mouse Model", Segundo Congreso Argentino de Espectrometría de Masa, Los Cocos, Córdoba, November 9-11, 2014.
63. Monge, M. E.; Zang, X.; McCarty, N. A.; Stecenko, A.; Fernández, F., "Untargeted Exhaled Breath Condensate Metabolomics for Detecting Cystic Fibrosis Exacerbations", Segundo Congreso Argentino de Espectrometría de Masa, Los Cocos, Córdoba, November 9-11, 2014.
64. L. Winalski, C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomic Analysis of Early-Stage Ovarian Cancer in a Dicer-Pten Double Knockout Mouse Model", The 66th Southeastern Regional Meeting of the American Chemical Society, Nashville, USA, October 16-19, 2014.
65. Xiaoling Zang, Christina M. Jones, Tran Q. Long, María Eugenia Monge, Manshui Zhou, L. DeEtte Walker, Roman Mezencev, Alexander Gray, John F. McDonald, Facundo M. Fernández. "Development of a Serum Metabolic In Vitro Diagnostic Multivariate Index Assay for Prostate Cancer Detection", SciX 2014, Reno-Tahoe, September 28 – October 3rd, 2014.
66. C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomic Analysis of Early-Stage Ovarian Cancer in a Dicer-Pten Double Knockout Mouse Model", 10th Biennial Ovarian Cancer Research Symposium, Seattle, USA, September 8-9, 2014.
67. D. A. Gaul, C. M. Jones, M. E. Monge, L. Q. Tran, M. M. Matzuk, J. F. McDonald, F. M. Fernandez, "Metabolomic Signatures in Sera from Early Stage Ovarian Cancer Patients", 10th Biennial Ovarian Cancer Research Symposium, Seattle, USA, September 8-9, 2014.
68. F. Fernández, R. Bennett, E. Morzan, Jacob Huckaby, Maria Eugenia Monge, Rosana Alberici, Prabha Dwivedi, Joel Keelor, Martin Paine, Joshua Symonds, Thomas Orlando, Henrick Christensen. "Ambient MS in motion: 3D robotic sampling, dynamic ionization, and microplasmas", IMSC 2014, 20th International Mass Spectrometry Conference, Geneva, Switzerland, August 24-29, 2014.

69. C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, J. McDonald, F. M. Fernández "Metabolomic Investigation of Ovarian Cancer Progression in a High-grade Serous Ovarian Cancer DKO Mouse Model", 10th Annual International Conference of the Metabolomics Society, Tsuruoka, Japan, June 23-26, 2014.
70. X. Zang; C. Jones; T. Long; M. E. Monge; M. Zhou; L. D. Walker; R. Mezencev; A. Gray; J. McDonald; F. M. Fernández, "A Serum Metabolomic In Vitro Diagnostic Multivariate Index Assay for Prostate Cancer Detection", 62nd ASMS Conference on Mass Spectrometry & Allied Topics, Baltimore, USA, June 15-19, 2014.
71. J. J. Pérez, M. E. Monge, N. A. McCarty, F. M. Fernández, "Untargeted Exhaled Breath Condensate Metabolomics by ESI, ESCi, and DART Ion Mobility-Time-of-Flight Mass Spectrometry", 62nd ASMS Conference on Mass Spectrometry & Allied Topics, Baltimore, USA, June 15-19, 2014.
72. F. M. Fernández, R. V. Bennett, E. M. Morzán, J. O. Huckaby, M. E. Monge, H. I. Christensen, "Ambient Plasma Ionization/Imaging with Robotic 3D Microprobes and Dynamic Desorption Gradients", 247th ACS National Meeting & Exposition, Nobel Laureate Signature Award for Graduate Education in Chemistry: Symposium in Honor of Livia S. Eberlin and R. Graham Cooks, Dallas, TX, USA, March 16-20, 2014.
73. X. Zang, M. E. Monge, C. Jones, T. Q. Long, A. Gray, J. McDonald, J. Kim, M. M. Matzuk, F. M. Fernandez, "Mass Spectrometry-Based Oncometabolomics", Pittcon 2014, Chicago, IL, USA, March 2-6, 2014.
74. C. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomics Investigation of Ovarian Cancer Progression in a Dicer-Pten Double Knockout Mouse Model", Festival of Research Ideas in Cancer Biology & Technology, Georgia Institute of Technology, Atlanta, USA, November 14th, 2013.
75. X Zang, C. M. Jones, T. Q. Long, M. E. Monge, M. Zhou, L. D. Walker, A. Gray, J. F. McDonald, N. Shah, R. Laungani, F. M. Fernández, "High Accuracy Prostate Cancer Detection Using Human Blood Sera Metabolomic Profiling" Festival of Research Ideas in Cancer Biology & Technology, Georgia Institute of Technology, Atlanta, USA, November 14th, 2013.
76. M.J.Culzoni, M.E. Monge, M. Zhou, P. Dwivedi, J.Keelor, M. Payne, C. Harris, D. Jenkins, P. N. Newton, P. Tabernero, F. M. Fernández, "Multi-platform technologies for the integral characterization of poor-quality medicines", 246th American Chemical Society National Meeting, Indianapolis, USA, September 8-12, 2013.
77. M.E. Monge, J. J.Pérez, P. Dwivedi, M. Zhou, N. A. McCarty, A. Stecenko, F. M. Fernández, "Targeted Ion Mobility and Liquid Chromatography-Mass Spectrometry Metabolomic Strategies for Glucose Quantitation in Exhaled Breath Condensate for Cystic Fibrosis Studies", 61st ASMS Conference on Mass Spectrometry & Allied Topics, Minneapolis, USA, June 9-13, 2013.
78. X Zang, C. M. Jones, T. Q. Long, M. E. Monge, M. Zhou, L. D. Walker, A. Gray, J. F. McDonald, N. Shah, R. Laungani, F. M. Fernández, "High Accuracy Prostate Cancer Detection Using Human Blood Sera Metabolomic Profiling" 61st ASMS Conference on Mass Spectrometry & Allied Topics, Minneapolis, USA, June 9-13, 2013.
79. C. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomics Investigation of Ovarian Cancer Progression in a Dicer-Pten Double Knockout Mouse Model" 61st ASMS Conference on Mass Spectrometry & Allied Topics, Minneapolis, USA, June 9-13, 2013.
80. M. E. Monge, M. Zhou, P. Dwivedi, J. Keelor, M. Payne, C. Harris, D. Jenkins, P. N. Newton, P. Tabernero, F. M. Fernández, "Tiered Technology Strategies for Testing Poor Quality Medicines." Pittcon, Philadelphia, USA, March 18-22, 2013.

81. Christina M. Jones, María E. Monge, Jaeyeon Kim, Martin M. Matzuk, John McDonald, Facundo M. Fernández, "Metabolomics Investigation of Ovarian Cancer Progression in a Dicer-Pten Double Knockout Mouse Model." International Conference Frontiers in Systems and Synthetic Biology '13 (FSSB'13), Atlanta, USA, March 20-24, 2013.
82. C. M. Jones, M. E. Monge, J. Kim, M. M. Matzuk, F. M. Fernández, "Metabolomics of Disease Progression in an Ovarian Cancer Dicer-Pten Double Knockout Mouse Model." Georgia Tech Research and Innovation Conference, Atlanta, USA, February 2nd, 2013.
83. C. M. Jones, T. Q. Long, X. Zang, M. E. Monge, M. Zhou,.L. D. Walker, A. Gray, J. F. McDonald, F. M. Fernández, "Prostate Cancer-induced Changes in the Human Blood Serum Metabolome." Georgia Tech Research and Innovation Conference, Atlanta, USA, February 2nd, 2013.
84. A. Kaylor, P. Dwivedi, M. E. Monge, and F. M. Fernández, "A Spray-Atomization Ambient Plasma Ion Source for Coupling Ultra High Performance Liquid Chromatography to Tandem Mass Spectrometry." Georgia Tech Research and Innovation Conference, Atlanta, USA, February 2nd, 2013.
85. C. Jones, T. Q. Long, M. E. Monge, A. Gray, J. McDonald, F. M. Fernandez, "Using Chemometrics and Ambient Mass Spectrometry for Oncometabolomics. Diagnostics Applications." Sermacs 2012, The Southeastern Regional Meeting of the American Chemical Society, Raleigh, USA, November 14-17, 2012.
86. David Jenkins, Maria Eugenia Monge, Prabha Dwivedi, Manshui Zhou, Facundo Fernández, "Quality testing of Levonogestrel EC", 2012 Jamboree of the American Society for Emergency Contraception, International Consortium for Emergency Contraception, New York City, NY, USA, October 4-5, 2012.
87. Z. Aregahegn, M. E. Monge, C. George, B. D'Anna, B. Nozière. "Secondary organic aerosol formation in the atmosphere by new aerosol-based photo-induced processes" 244th American Chemical Society National Meeting, Philadelphia, USA, August 19-23, 2012.
88. M.E. Monge, H. Hermann, C. George. "Impact of sea water photochemistry on aerosol particles formation". American Geophysical Union Symposium, San Francisco, USA, December 5-9, 2011.
89. C. George, M.E.Monge, B. D'Anna, O. Favez, T. Rosenørn, M. Müller, Y. Rudich, G. Adler, A-A Riziq, H. Herrmann. "Photochemistry at interfaces: a source of radicals impacting on aerosol formation and properties or Photoassisted formation and growth of aerosols". American Geophysical Union Symposium, San Francisco, USA, December 5-9, 2011.
90. George C, Monge M.E., D'Anna B. "Overview of NOx Reactions on Surfaces". NATO Advanced Research Workshop (ARW), Disposal of Dangerous Chemicals in Urban Areas and Mega Cities, Gdansk, Poland, October 9-13, 2011.
91. C. George, B. D'Anna, M.-E. Monge, O. Favez, T. Rosenoern. "Photoassisted formation and growth of aerosols". 242nd American Chemical Society National Meeting, Denver, USA, August 28th – September 1st, 2011.
92. B. D'Anna, M-E Monge, C. George, O. Favez, T. Rosenørn, M. Müller, Y. Rudich, G. Adler, A-A Riziq, H. Herrmann. "Photo-enhanced Reactivity of Organic Particles" 10th Workshop in the series "Urban Air Quality and Traffic", Cork, Ireland, September 19-21, 2011.
93. R. Ammar, M.E. Monge, B. D'Anna and C. George, "Photoenhanced NO2 Loss on Simulated Urban Grime" Atmospheric Chemical Mechanisms, UC Davis, USA, December 6-10, 2010.

94. C. George, M.E. Monge, B. D'Anna, "Photoenhanced Deposition of Trace Gases at the Interface of Organic Surfaces" Atmospheric Chemical Mechanisms, Davis, USA, December 8-10, 2010.
95. R. Ammar, M.E. Monge, B. D'Anna and C. George, "Photoenhanced NO2 Loss on Simulated Urban Grime" AGU Fall Meeting, San Francisco, USA, December 13-17, 2010.
96. Baduel, C.; Monge, M. E.; El Haddad, I.; D'Anna, B.; Voisin, D.; Marchand, N.; George, C.; Jaffrezo, J.-L. "Multiphase Chemistry of Ozone on "HUmic LIke Substances" coating" International Aerosol Conference 2010, Helsinki, Finland, September 29 – August 3, 2010.
97. M.E. Monge, R. Ammar, B. D'Anna, C. George "Photocatalysis on environmental surfaces". 21st International Symposium on Gas Kinetics (GK2010), Louvain, Belgium, July 18-23, 2010.
98. C. George, B. D'Anna, M.-E. Monge, R. Ammar, T. Rosenoern. "Photoinduced aging of tropospheric aerosols: What is more important UV or visible light?" 240th American Chemical Society National Meeting, Boston, USA, August 22-26, 2010.
99. B. D'Anna, M.E. Monge, C. George, M. Ammann, and D. J. Donaldson "Light changes the atmospheric reactivity of soot" European Geosciences Union General Assembly, Vienna, Austria, May 2-7, 2010.
100. B. D'Anna, C. George, M. Monge, M. Ammann, D. J. Donaldson, "Photoenhanced uptake of NO2 on soot" AGU Fall Meeting, San Francisco, USA, December 14-18, 2009.
101. M.E. Monge, C. George, B. D'Anna, J.-F. Doussin, A. Jammoul, J. Wang, G. Eyglunent, G. Solignac, V. Daele, A. Mellouki, "Photocatalytic remediation processes on air quality". Journées Européennes de la Photocatalyse, Bordeaux, France, September 21-22, 2009.
102. M. E. Monge, L. Nagels, E. M. Andrade and R. M. Negri, "A novel design of potentiometric sensors for metal ions detection" 2nd International conference on the Electrochemical Promotion of Catalysis and its Applications (EPOCAP), Oléron Island, France, 29th September – 3rd October 2008.
103. M. Amenta, M.E. Monge, L. Lizarraga, D. Giacomazza, P.L. San Biagio, D. Bulone, "Multivariate data analysis of thermally treated sicilian extra virgin olive oil samples using e-nose, SPME-GC-MS and rheology" XIX Congresso Nazionale della Societa' Italiana di Biofisica Pura e Applicata (SIBPA), Rome, Italy, September 17- 20, 2008.
104. M. E. Monge, Y. Toum, L. Nagels, E. Andrade y R. M. Negri; "Detección de Ni2+ y Pb2+ en agua utilizando electrodos ión selectivo desarrollados en el laboratorio." 2º Congreso Iberoamericano y 4º Congreso Argentino de Química Analítica, Buenos Aires, Argentina, diciembre de 2007.
105. M.E. Monge, R.M. Negri, A.A. Kolender, and R. Erra-Balsells "Caracterización Estructural de pectinas de alto grado de mutilación por espectroscopía RMN y por espectrometría de masas UV-MALDI-TOF. Estudio comparativo del uso del ácido 2,5-dihidroxibenzoico y de nor-harmano como matrices en UV-MALDI" XVI Simposio Nacional de Química Orgánica (XVI SINAQO), Primer Simposio Iberoamericano de Química Orgánica (SIBEAQO I), SAIQO, Mar del Plata, Buenos Aires, Argentina, November 11-14, 2007.
106. M.E. Monge, Y. Toum, L. Nagels, E. Andrade and R.M. Negri, "Desarrollo de sensores potenciométricos para la detección de iones metálicos en agua" XV Congreso Argentino de Fisicoquímica y Química Inorgánica, Tandil, Argentina, April 17-20, 2007.

107. M.E. Monge, R.M. Negri, D. Giacomazza and D. Bulone; "Correlation between rheological properties and flavour release in pectin gels using an electronic nose" XVIII Congresso Nazionale della Societa' Italiana di Biofisica Pura e Applicata (SIBPA), Palermo, Italy, September 17- 21, 2006.
108. M.E. Monge, R. M. Negri, D. Giacomazza, D. Bulone, D. L. Bernik; "Análisis por Nariz Electrónica de la liberación de aceites esenciales encapsulados en geles de pectinas y caracterización reológica de los mismos" X Congreso CYTAL: Congreso Argentino de Ciencia y Tecnología de Alimentos y 1er Simposio Internacional de Nuevas tecnologías, Mar del Plata, Argentina, May 18-20, 2005.
109. M.E. Monge, R. M. Negri, D. Giacomazza, D.Bulone, D. L. Bernik; "Análisis por Nariz Electrónica de la liberación de aceites esenciales encapsulados en geles de pectinas" XIV Congreso Argentino de Fisicoquímica y Química Inorgánica, Santiago del Estero, Argentina, April 11-14, 2005.
110. M.E. Monge, D. Bernik, M. Eguaras, M. Negri. "Liberación de compuestos encapsulados en geles de pectinas" XIII Congreso Argentino de Físicoquímica y Química Inorgánica, Bahía Blanca, Argentina, April 7-10, 2003.
111. M.E. Monge, D. Bernik, and M. Negri, "Smelling flavours encapsulated in pectin gels using an electronic nose" 5th Green Chemistry Summer School, Venice, Italy, September 8-14, 2002.
112. M. E. Monge, S. M. Bonesi, R. Erra-Balsells, "Synthesis, spectroscopy, photophysics and electrochemistry of iodinated benzoindole chromophores" XIII Simposio Nacional de Química Orgánica (SINAQO), SAIQO, Córdoba, Argentina, November 10-14, 2001.
113. M. E. Monge and S. M. Bonesi, "Iodación de benzoindoles" XII Simposio Nacional de Química Orgánica (SINAQO), SAIQO, Los Cocos, Córdoba, Argentina, November 12-15, 1999.

ORGANIZATION AND SERVICE IN CONFERENCES

2023: International Scientific Organizing Committee member of Metabolomics 2023, Conference of the Metabolomics Society, Canada.
2022: Member of the organizing and academic committee of the IV Latin American Metabolic Profiling Symposium. Conference, Colombia.
2022: Member of the academic committee of the IV Argentine Mass Spectrometry Conference, San Luis, Argentina.
2022: International Scientific Organizing Committee member of Metabolomics 2022, Conference of the Metabolomics Society, Spain.
2022: Chair of the Plenary Lecture of Prof. Coral Barbas at the 18th Annual Conference of the Metabolomics Society, Valencia, Spain.
2022: Co-chair of Session 22 of the 18th Annual Conference of the Metabolomics Society, Valencia, Spain.
2022: Discussant in the "Career Night" round table organized by the Early Member Career Network of the Metabolomics Society to discuss about "Careers in Academia" during the the 18th Annual Conference of the Metabolomics Society, Valencia, Spain.
2022: Chair of Session 1 in the 10th International Singapore Lipid Symposium (iSLS), On-site-On-line, March 8-10, 2022.
2021: Organizer and presenter in the first virtual meeting of LAMPS (Latin American Metabolic Profiling Society), September 14 2021**.**

2021: Chair in the 17th Annual Conference of the Metabolomics Society, Metabolomics2021 Online.
2020: Member of Poster jury in 16th Annual Conference of the Metabolomics Society, Metabolomics2021 Online.
2019-2020: Member of the organizing and academic committee of the IV Latin American Metabolic Profiling Symposium. Conference cancelled for COVID-19 pandemic.
2019-2020: International Scientific Organizing Committee member of Metabolomics 2020, Shanghai, July 6-10, 2020. Conference cancelled for COVID-19 pandemic.
2019: Chair in the Cancer Session in Metabolomics 2019, The Hague, The Netherlands, June 25 2019.
2019: Metabolomics 2019 Career Night, Roundtable Discussant at the 15th Annual Conference of the Metabolomics Society: Setting Up and Managing Your First Lab, The Hague, The Netherlands, June 23rd 2019.
2014: Member of the organizing committee of the second Argentinean Mass Spectrometry Conference, Los Cocos, Córdoba, November 9-11, 2014.

SCIENCE COMMUNCATION

- 2022: Interview in MetaboNews, Volume 12, Issue 7, July 2022 http://www.metabonews.ca/Jul2022/MetaboNews_Jul2022.pdf
- 2021: Panelist in an ACS Career Workshop organized by the American Chemical Society and the Georgia Institute of Technology (GIT) to discuss with grad students my experience in Academia as Group Leader. Virtual Workshop, May 12, 2021.
- 2020: Ciencias Biológicas y de la Salud News. " Identifican mecanismos metabólicos que aumentan la malignidad de la célula de cáncer renal" https://www.conicet.gov.ar/identifican-mecanismos-metabolicos-que-aumentan-la-malignidad-de-la-celula-de-cancer-renal/
- 2020: Interview in MetaboNews, Volume 10, Issue 7, October 2020 (http://www.metabonews.ca/archive.html)
- 2019: Coordinator of visits from high school students to CIBION.
- 2019: Coordinator of visits to the Mass Spectrometry laboratory at CIBION in the frame of "The night of Researchers", organized by Centro Cultural de la Ciencia, Oficina de Enlace Argentina-European Union.
- 2018: Coordinator of visits from high school students to CIBION.
- 2018: Coordinator of visits to the Mass Spectrometry laboratory at CIBION in the frame of "The night of Researchers", organized by Centro Cultural de la Ciencia, Oficina de Enlace Argentina-European Union, MINCYT.
- 2008: "¿Por qué el helado no tiene olor?" article in Revista Exactamente, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Año 14, Nº 40, September 2008, pg.44.

MEMBERSHIP IN PROFESSIONAL AND HONOR SOCIETIES

Since 2022: **Member of the Board of Directors** of the Metabolomics Society.
Since 2021: Latin American Metabolic Profiling Society (LAMPS) **Founding Member**
Since 2019: Member of the Metabolomics Society Membership Committee (mQACC)
Since 2019: Metabolomics Quality Assurance and quality Control Consortium
Since 2019: Metabolomics Society
Since 2014: *Sociedad Argentina de Espectrometría de Masa (SAEM)*

Since 2016: Board Member of CIBION.
Since 2016: Board Member of the Argentine National Mass Spectrometry Society
2003-2016: *Asociación Argentina de Investigación Físicoquímica (AAIFQ)*
2013-2014: American Society for Mass Spectrometry

SCIENTIFIC AND TECHNOLOGICAL SERVICES - MS FACILITY

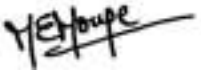
- 02-2023: INFIQ-CONICET, UNC. Dr. J. Uranga. Analysis of synthetic compounds by DI-ESI-QTOF-MS and DART-QTOF-MS.
- 01-2023: Facultad de Farmacia y Bioquímica-UBA, Dr. Jimena Díaz. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 01-2023: IIB-CONICET-UNMdP, Dr. X. Silveyra. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 01-2023: INFIQ-CONICET, Dr. María Eugenia Buden. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 01-2023: INTA-Pergamino. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 11-2022: Facultad de Ciencias Bioquímicas y Farmacéuticas, UNR – CONICET, Dr. Mario Salazar. Analysis of compounds by DI-ESI-QTOF-MS.
- 11-2022: IQUIMEFA-CONICET, Dr. Juan Manuel Lázaro Martínez. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 09-2022: INFIQ-CONICET, Dr. María Eugenia Buden. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 09-2022: INFIQ-CONICET, Dr. Silvia Soria Castro. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 10-2022: INQUIMAE-CONICET, Dr. Fernando Battaglini. Analysis of synthetic compounds by DI-ESI-SQ-MS.
- 09-2022: CIHIDECAR-CONICET, Dr. Verónica Rivas. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 06-2022: BETA-LAB. Analysis of synthetic compounds by DART-QTOF-MS.
- 03-2022: IQUIMEFA – CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 12-2021: Y-TEC. Consulting activities on high resolution mass spectrometry.
- 11-2021: INTI, Dr. Lucía Gandolfi. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 09-2021: Fundación Instituto Leloir, Dr. Martín Arán. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 08-2021: IQUIMEFA – CONICET, Dr. Albertina Moglioni. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 06-2021: Facultad de Ciencias Bioquímicas y Farmacéuticas, UNR – CONICET, STAN, Dr. Andrea Escalante. Analysis of compounds by DI-ESI-QTOF-MS.
- 04-2021: Syntex Lab. Analysis of compounds by DI-ESI-QTOF-MS.
- 03-2021: Mar Lab. Analysis of compounds by DI-ESI-QTOF-MS.
- 02-2021: IQUIMEFA – CONICET, Dr. Albertina Moglioni. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 02-2021: IQUIMEFA STAN brindado a la Dr. Sülsen.Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 01-2021: INTI, Dr. Lucía Gandolfi. Analysis of synthetic compounds by DI-ESI-QTOF-MS.

- 12-2020: Universidad Nacional de Córdoba, Dr. M. Faillace Analysis of compounds by DI-ESI-QTOF-MS.
- 11-2020: IQUIMEFA – CONICET, Dr. Albertina Moglioni. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 10-2020: Surcell Lab. Analysis of compounds by DI-ESI-QTOF-MS.
- 08-2020: Syntex Lab. Analysis of compounds by DI-ESI-QTOF-MS.
- 03-2020: INQUINOA-CONICET, Dr. N. Katz. Analysis of compounds by DI-ESI-QTOF-MS.
- 02-2020: INTI, Dr. Julieta Comín. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 11-2019: Roemmers Labs. Analysis of compounds by UHPLC-ESI-QTOF-MS.
- 11-2019: INQUINOA-CONICET, Dr. F. Fagalde. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 07-2019: INQUIMAE-CONICET, Dr. Florencia Di Salvo. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 07-2019: INQUIMAE-CONICET, Dr. Leonardo Slep. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 07-2019: INQUIMAE-CONICET, Dr. Roberto Etchenique. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 07-2019: INQUINOA-CONICET, F. Fagalde. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 06-2019: Fundación Instituto Leloir, Dr. Martín Arán. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 06-2019: CINDEFI-CONICET. Analysis of compounds by LC-MS.
- 06-2019: NANOBIOTEC-CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 05-2019: Universidad Nacional de Rosario. Analysis of compounds by DI-ESI-QTOF-MS.
- 05-2019: Universidad de la República, Uruguay, Dr. Guillermo Moyna. Analysis of compounds by DI-ESI-QTOF-MS.
- 04-2019: CITEDEF-UNIDEF-CONICET. Analysis of compounds by HPLC-SQ-MS.
- 12-2018: INQUIMAE-CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 11-2018: Syntex S.A. Analysis of impurities by UHPLC-ESI-QTOF-MS.
- 11-2018: INQUIMAE-CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 10-2018: UdelaR, Uruguay. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 09-2018: Facultad de Ciencias Bioquímicas y Farmacéuticas, UNR – CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 08-2018: INTI. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 06-2018: IMIPP – CONICET. Compound identification by UHPLC-QTOF-MS.
- 05-2018: CEQUINOR – CONICET. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 02-2018: MONTE VERDE S.A. Analysis of API and related substances by UHPLC-ESI-QTOF-MS.
- 12-2017: MONTE VERDE S.A. Analysis of API and related substances by UHPLC-ESI-QTOF-MS.
- 08-2017: SANOFI. Identification of compounds by DI-ESI-QTOF-MS.

- 08-2017: MAPRIMED S.A. Cuantitation of impurities in raw material by HPLC-ESI-SQ-MS.
- 07-2017: MAPRIMED S.A. Cuantitation of impurities in raw material by HPLC-ESI-SQ-MS.
- 06-2017: MAPRIMED S.A. Identification of compounds by DI-ESI-QTOF-MS.
- 04-2017: GADOR S.A. Identification of compounds by DI-ESI-QTOF-MS.
- 03-2017: Research Group of Facultad de Farmacia y Bioquímica, UBA. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 12-2016: AKAPOL S.A. Analysis of polimeric compounds by DI-ESI-SQ-MS.
- 11-2016: Research Group of Facultad de Farmacia y Bioquímica, UBA. Analysis of synthetic compounds by DI-ESI-QTOF-MS.
- 07-2016: MONTE VERDE S. A. Identification of compounds by DI-ESI-QTOF-MS.
- 06-2016: MONTE VERDE S. A. Identification of compounds by DI-ESI-QTOF-MS.
- 03-2016: MAPRIMED S. A. Identification of compounds by DI-ESI-QTOF-MS.
- 03-2016: MAPRIMED S. A. Identification of compounds in complex mixtures by DI-ESI-QTOF-MS.
- 03-2016: MAPRIMED S. A. Identification of impurities by DI-ESI-QTOF-MS.
- 09-2015: MAPRIMED S. A. Identification of impurities by UHPLC-ESI-QTOF-MS.
- 06-2015: MONTE VERDE S. A. Analysis of pharmaceutical ingredients by UHPLC-ESI-QTOF-MS.

LANGUAGES

Spanish: Mother tongue
English: Fluent
French: Fluent
Italian: Fluent



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