



# Víctor González Ruiz

## Analytical chemistry & metabolomics



2002-2008  
Pharmacist



2008-2009  
MSc R+D+i  
in drugs



2009-2014  
PhD Analytical  
Chemistry



2015-2017  
Post-doctoral  
fellow



2018-Present  
Research  
associate

### PERSONAL

**Birth date:** 28/02/1984  
**Nationality:** Spanish  
**Marital status:** Married  
**Fluent in:** Spanish, English, French

### CONTACT

**E-mail:** victor.gonzalez@unige.ch  
**Telephone:** +41 (0) 22 379 68 94  
**Web:** www.victorgonzalezruiz.com  
**Twitter:** @vgonzalezruiz  
**Address:** Centre Médical Universitaire  
1 rue Michel-Servet,  
1206, Geneva, Switzerland

### PUBLICATION METRICS

**Peer-reviewed papers:** 39  
**Book chapters:** 7  
**h-index:** 14  
**Total citations:** 604  
**Oral communications:** 20  
**Poster communications:** 63  
**ORCID:** 0000-0001-7204-2363

### SCIENTIFIC EXPERTISE

Metabolomics Analytical chemistry  
Mass Spectrometry Toxicology  
Liquid Chromatography  
Capillary Electrophoresis  
Method development Fluorescence  
Method validation Systems biology  
Sample preparation  
Multivariate data analysis

### SOFT SKILLS

Scientific project management  
Scientific communication Creativity  
Problem solving Curious Resilience  
Critical thinking Collaborative  
Quick learner Open-minded

### Profile

Passionate about analytical chemistry, with a focus on metabolomics and cutting-edge techniques (LC-MS, CE-MS, data analysis, fluorescence). Strong scientific record backed by more than 35 papers in peer-reviewed journals and several book chapters. Excellent communication skills with over 20 oral presentations in international symposia and a love for scientific illustration. Teaching experience at university level in Spanish, English and French. Scientific project and team management abilities developed along four years organising our group's research activities for the Swiss Centre of Human Applied Toxicology in communication with research partners and stakeholders.

### Education

- 2009-2014 Ph.D. Analytical Chemistry (with highest honours)**  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid
- 2008-2009 Master of Advanced Studies in Pharmaceutical Sciences – R&D of drugs**  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid
- 2002-2008 B.Sc. and M.Sc. in Pharmacy (PharmD) - Industrial specialization**  
Faculty of Pharmacy, Universidad Complutense de Madrid

### Experience

- 2018-present Research Associate – Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva & Swiss Centre for Applied Human Toxicology. Geneva, Switzerland**
- Development and application of innovative UPLC- / CE-MS methods and data mining strategies for untargeted and targeted metabolomics (Q-ToF, Orbitrap, triple quadrupole, ion mobility)
  - Analysis of high-dimensionality datasets: multivariate and multi-block data (SIMCA, Python)
  - Lab management for the SCAHT Core Projects in which the research group participates. Application of untargeted metabolomics in translational research, to develop adverse outcome pathways (AOPs) and support Swiss regulatory authorities
  - Supervision of master and PhD students. Teaching of courses (bachelor, master and MAS)
  - Project planning with research partners and management of lab team
  - Writing and reviewing articles, presentations and posters
  - Presenting in Swiss and international meetings and conferences
  - Writing of grant proposals and budget planning
- 2015-2017 Postdoctoral researcher – Analytical Sciences, School of Pharmacy, University of Geneva, University of Lausanne, Geneva, Switzerland**
- Fundamental studies on electrospraying processes and CE-MS interfacing
  - Development of innovative strategies for information retrieval in metabolomics
  - Metabolomics to understand neural degeneration by using neuroinflammation models
  - Independently planning and managing my own research and supporting PhD and master students
  - Teaching practical courses to bachelor and master students
- 2008-2014 Master of Advanced Studies and PhD student – Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid**
- Fundamentals of LC coupled to fluorescence detection for antitumor drugs: thermodynamics, retention and selectivity, drug-cyclodextrins complexes
  - Development of analytical strategies with less environmental impact. Miniaturization
  - UV-Vis, fluorescence and (2D)RMN methods: drug-cyclodextrin complexation, drug-biomolecule interactions, redox processes, anion recognition
  - In vitro, molecular biology, and in silico studies to discern the mechanism of action of new topoisomerase I interfacial inhibitors
  - Writing of scientific publications, supervision of master students, laboratory teaching

### Selected awards

- 2019 Mario Martín Velamazán prize in Pharmacy Research – CEU San Pablo University, Madrid, Spain**
- 2015 Best PhD Thesis award 2014 – Faculty of Pharmacy, Universidad Complutense de Madrid, Madrid, Spain**
- 2015 Prize "COFARES" – Royal National Academy of Pharmacy, Institute of Spain, Madrid, Spain**
- 2009 Prize "Carlos del Castillo Leiva" – Royal National Academy of Pharmacy, Institute of Spain, Madrid, Spain**

# Víctor González-Ruiz

Pharmacist, PhD

## Full academic record

### 1. Personal information

Full name Víctor González-Ruiz  
Date of birth 28/02/1984  
Address Analytical Sciences, Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva. Centre Médical Universitaire. 1, rue Michel-Servet, 1206 Genève, Suisse  
E-mail [victor.gonzalez@unige.ch](mailto:victor.gonzalez@unige.ch)  
Telephone +41 (0) 22 379 68 94  
Website <http://www.victorgonzalezruiz.com>  
Other links [LinkedIn](#) | [ORCID](#) | [ResearchGate](#) | [Google Scholar](#) | [Publons](#) | [Scopus Author](#)

### 2. Research interests

- Untargeted metabolomics
- LC and CE hyphenation to MS
- Toxicology
- Data analysis
- Method development
- Quantitative approaches
- Biochemical networks
- Sample preparation
- Clinical studies

### 3. University degrees

- 2014 **Ph. D. Analytical Chemistry** (with highest honours)  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
“Development of sustainable analytical methodologies to study pharmaceutically relevant heterocycles” ([link](#))
- 2009 **Master of Advanced Studies in Pharmaceutical Sciences – R & D of drugs** (60 ECTS credits)  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
“Recognition of biologically relevant anions using a fluorescent carbazole derivative”
- 2008 **B. Sc. and M. Sc. in Pharmacy** (300 ECTS credits)  
Faculty of Pharmacy, Universidad Complutense de Madrid.

### 4. Accreditations for university teaching

- 2014 **“Profesor de Universidad Privada”, “Profesor Ayudante Doctor” and “Profesor Contratado Doctor”**  
Spanish National Agency for Evaluation of the Quality and Accreditation (Ministry of Education, Culture and Sports, Spain).  
Academic evaluation of the research and teaching curriculum required to be allowed to teach in any Spanish official university

### 5. Publications metrics

Peer-reviewed articles	39	Oral communications in conferences	20 (+ 17 coaut.)
Other articles	5	Poster communications in conferences	63
Books and book chapters	7		

## 6. Academic positions

- 2018-present **Research associate**  
Group of Biomedical Analysis and Metabolomics. Analytical Sciences, Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva. Geneva, Switzerland  
Position funded by the Swiss Centre for Applied Human Metabolomics (SCAHT)  
Group head: Prof. S. Rudaz
- Development and application of innovative LC- / CE-MS methods and data mining strategies for untargeted and post-targeted metabolomics in collaboration with the SCAHT and the University Hospitals of Geneva.
  - Lab coordinator for the three SCAHT Core Projects in which the research group participates: *Neurotoxicity*, *Male Reproductive Toxicology* and *Endocrine Disruption and Steroid Hormone Action*. Application of LC-MS-based untargeted metabolomics and advanced data treatment strategies in the context of translational research, to develop adverse outcome pathways (AOPs) and support regulatory Swiss authorities.
  - Development of new approaches to integrate CE-MS in a multi-platform metabolomics environment.
- 2015-2017 **Postdoctoral researcher**  
Analytical Sciences, School of Pharmacy, University of Geneva, University of Lausanne, Geneva, Switzerland  
Group head: Prof. S. Rudaz
- Fundamental studies on electrospraying processes in CE-MS interfacing
  - Development of innovative strategies for information retrieval in metabolomics
  - Metabolomics to understand neural degeneration by using neuroinflammation models
- 2008-2014 **MAS and PhD student**  
Research group “Biologically relevant heterocycles”. Dept. of Analytical Chemistry and Dept. of Organic and Pharmaceutical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group heads: Prof. J. C. Menendez and Prof. M. A. Martin
- Fundamentals of LC coupled to fluorescence detection for antitumor drugs: thermodynamics, retention and selectivity, drug-cyclodextrins complexes
  - Development of analytical strategies with less environmental impact. Miniaturization.
  - UV-Vis, fluorescence and (2D)RMN methods: drug-cyclodextrin complexation, drug-biomolecule interactions, redox processes, anion recognition
  - *In vitro*, molecular biology, and *in silico* studies to discern the mechanism of action of new topoisomerase I interfacial inhibitors

## 7. Participation in research projects

- 2018-2019 **Development of an analytical method based on dried blood spot sampling for detection of tramadol misuse in bicycle racing**  
University of Geneva, University of Lausanne’s Centre of Research and Expertise in Anti-Doping Sciences  
Group head: Prof. S. Rudaz, Prof. M. Saugy
- 2018-present **“Neurotoxicity”, “Male Reproductive Toxicology” and “Endocrine Disruption and Steroid Hormone Action” core projects**  
Swiss Centre for Applied Human Toxicology (SCAHT)  
Group head: Prof. S. Rudaz
- 2016-present **“Neurotoxicity” core project: “Metabolomic profiles induced by neuroinflammatory conditions” work package**  
Swiss Centre for Applied Human Toxicology (SCAHT)  
Group head: Prof. S. Rudaz
- 2015-present **Analytical Sciences** ([link](#))  
School of Pharmacy, University of Geneva, University of Lausanne, Geneva, Switzerland  
Group head: Prof. S. Rudaz

- 2012-2014 **Research group “Molecular biology of cancer”** –External collaborator  
Dept. of Biochemistry and Molecular Biology, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group head: Prof. P. Iniesta.
- 2009-2014 **Research group “Biologically relevant heterocycles”** ([link](#))  
Dept. of Analytical Chemistry and Dept. of Organic and Pharmaceutical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group head: Prof. J. C. Menendez.
- 2009-2013 **Research project “Development of new chromatographic and miniaturized spectroscopic methodologies for the quantitation of anti-tumor drugs. Application to the evaluation of their pharmacological activity”**  
Ministerio de Ciencia e Innovación, Spain.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group head: Prof. M. A. Martín.
- 2006-2008 **Research project “Development and application of clean mobile phases in HPLC. Utility in the separation of nitrogenated heterocycles of biological relevance by means of the incorporation of cyclodextrins to the mobile phases”**  
Ministerio de Ciencia y Tecnología, Spain.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group head: Prof. B. del Castillo.
- 2004-2006 **Research project “Quantitation of pharmacologically active heterocycles by HPLC-fluorescence detection. Advantages of the use of mobile phases containing cyclodextrins”** – Student collaborator  
Ministerio de Ciencia y Tecnología, Spain.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.  
Group head: Prof. B. del Castillo.

## 8. Fellowships and awards

- 2019 **Young Investigator Grant** –Travel grant  
MSACL EU Conference 2019, Salzburg, Austria.
- 2019 **Mario Martín Velamazán prize in Pharmacy Research** –Award  
CEU San Pablo University, Madrid, Spain.
- 2019 **MSB 2019 Young Scientist Oral Communication Excellence Award** –Award  
MSB Symposium 2019, Corvallis (OR), USA.
- 2018 **Royal Society of Chemistry Publishing prize to best poster presentation** –Award  
MSB Symposium 2018, Rio de Janeiro, Brazil.
- 2018 **ccCTA Travel Award** –Travel grant  
Centre de Compétences en Chimie et Toxicologie Analytiques, Switzerland.  
To attend MSB Symposium 2018, Rio de Janeiro, Brazil.
- 2018 **CASSS Travel Award** –Travel grant  
California Separation Science Society, California, US.  
To attend MSB Symposium 2018, Rio de Janeiro, Brazil.
- 2017 **ccCTA Travel Award** –Travel grant  
Centre de Compétences en Chimie et Toxicologie Analytiques, Switzerland.  
To attend MSB Symposium 2017, Noordwijkerhout, The Netherlands.
- 2016 **Bourse de Voyage de la Société Académique de Genève** –Travel grant  
Société Académique de Genève, Geneva, Switzerland.  
To attend MSB Symposium 2016, Niagara on The Lake, Canada.
- 2016 **ccCTA Travel Award** –Travel grant  
Centre de Compétences en Chimie et Toxicologie Analytiques, Switzerland.  
To attend MSB Symposium 2016, Niagara on The Lake, Canada.
- 2015 **Best PhD Thesis award 2014** –Award

Faculty of Pharmacy, Universidad Complutense de Madrid, Madrid, Spain.

- 2015 **Prize “COFARES” –Award**  
Royal National Academy of Pharmacy, Institute of Spain.
- 2010-2013 **National Plan for the Formation of University Research and Teaching Staff –Fellowship**  
Ministerio de Ciencia e Innovación, Spain.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.
- 2009 **Introduction to Research –Fellowship**  
Universidad Complutense de Madrid.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.
- 2009 **Prize “Carlos del Castillo Leiva” to the best work on Analytical Instrumentation –Award**  
Royal National Academy of Pharmacy, Institute of Spain
- 2008 **“Biologically relevant heterocycles” research group –Fellowship**  
Universidad Complutense de Madrid.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.
- 2007 **Collaboration in research for undergraduate students –Fellowship**  
Universidad Complutense de Madrid.  
Dept. of Analytical Chemistry, Faculty of Pharmacy, Universidad Complutense de Madrid.
- 2005-2009 **Mobility for university students –Fellowship**  
Ministry of Education and Science, Spain.
- 2003 **Academic Excellence –Award**  
Government of the Region of Madrid.

## 9. Teaching

### 9.1. Teaching experience

- 2017-2020 **Elements of Proteomics and Metabolomics: Translation to Human Diseases** – Lectures and laboratory classes. Interfaculty Program of Masters of Advanced Studies. Institute of Pharmaceutical Sciences of Western Switzerland.
- 2015-2017 **«Chimie Analytique Pharmaceutique», «Méthodologie Pharmaceutique» and «Analyses Biologiques Médicales»** – Teaching assistant. Bachelor in Pharmacy. École de Pharmacie de Genève-Lausanne.
- 2006-2014 **«Analytical Instrumentation», «Analytical Chemistry I (Chemical Analysis)», and «Analytical Chemistry II (Instrumental Analysis)»** – Teaching assistant. Degree in Pharmacy. Faculty of Pharmacy, Universidad Complutense de Madrid.  
**Analytical Methods applied to Biomedical Analyses** – Teaching assistant, Master in Biomedical Analyses. Faculty of Pharmacy, Universidad Complutense de Madrid.
- 2009-2014 **Training** junior lab members in practical techniques to ensure competence and personal safety  
Faculty of Pharmacy, Universidad Complutense de Madrid.

### 9.2. Supervision of students

- 2019 **Supervision of PhD Student Stay at UNIGE** – “Development of a chiral LC-MS method for the analysis of D- and L-cysteine”  
Lucia Pucciarini, Università degli Studi di Perugia  
Co-advisors: Prof. S. Rudaz, Prof. Benedetto Natalini.
- 2016 **Supervision of Master Students** – “Evaluation of a new miniaturised analysis device for the quality control of medicines and counterfeits”  
Rafik Morkos, School of Pharmacy of Genève-Lausanne  
Co-advisors: Prof. S. Rudaz, Dr. J. Schappler.

- 2011-2014 **Supervision of undergraduate students** – Experimental work at the lab and preparation of seven communications to be presented at the “National Congress of Undergraduate Research in Health Sciences”, four of which received awards as the best experimental works in their respective years.
- 2013 **Master’s Thesis**– “Exploring selectivity and retention behaviour of various HPLC stationary phases in separation of anticancer drugs”.  
Louise Hannil Moe, School of Pharmacy, University of Copenhagen.  
Co-advisors: Prof. M. A. Martín Carmona, Prof. Stefan Stürup.
- 2011 **Master’s Thesis** – “Analisi di nuovi potenziali agenti antitumorali: luotonina A e derivati. Caratterizzazione spettrofotometrica e spettrofluorimetrica e studio delle interazioni con il DNA”.  
Elisa Corda, Facoltà di Farmacia, Alma Mater Studiorum, Università degli Studi di Bologna.  
Co-advisors: Prof. M. A. Martín Carmona, Prof. S. Girotti.

### 9.3. Participation in teaching innovation projects

- 2011 **UCM Teaching Innovation Project** – “Theory to practice”: acquiring the knowledge, capabilities and applications of Analytical Chemistry in Pharmaceutical Sciences.  
Faculty of Pharmacy, Universidad Complutense de Madrid.

### 9.4. Scientific divulgation activities

- 2019 **Science Slam** – “Tenth Anniversary of the SCAHT” event in Bern for authorities and stakeholders.  
Organised by the Swiss Centre for Applied Human Toxicology directorate at Bern Casino on 27.11.2019.
- 2019 **Itinerant Exhibition** – “Spanish Science in Switzerland”: itinerant exhibition featuring the work of Spanish scientists in Switzerland.  
Spanish Embassy in Switzerland, Association of Spanish Researchers in the Helvetic Confederation, different Swiss high schools.

## 10. Publications

### 10.1. Research articles and reviews

39. **Respiratory tissue-associated commensal bacteria offer therapeutic potential against pneumococcal colonization**  
S. Yildiz, M. Berge, [V. González-Ruiz](#), D. Baud, I. Boal-Carvalho, O. Schaeren, J.P. Lopes, J. Klöhn, L. Hathaway, S. Rudaz, P. Viollier, S. Hapfelmeier, P. Francois, M. Schmolke  
[eLife](#) (2020), in press
38. **From a single steroid to the steroidome: trends and analytical challenges**  
E. Olesti, J. Boccard, G. Visconti, [V. González-Ruiz](#), S. Rudaz  
[Journal of Steroid Biochemistry and Molecular Biology](#) (2020), in press
37. **Evaluation of Different Tandem MS/MS Acquisition Modes to Support Metabolite Annotation in Human Plasma Using Ultra High-Performance Liquid Chromatography High-Resolution Mass Spectrometry for Untargeted Metabolomics**  
[\(link\)](#)  
J. Pezzatti, [V. González-Ruiz](#), J. Boccard, D. Guillarme, S. Rudaz  
[Metabolites](#) (2020), 10, 464
36. **Network principal component analysis: a versatile tool for the investigation of multigroup and multiblock datasets**  
[\(link\)](#)  
S. Codesido, M. Hanafi, Y. Gagnebin, [V. González-Ruiz](#), S. Rudaz, J. Boccard  
[Bioinformatics](#) (2020), ePub ahead of print
35. **Capillary electrophoresis-Mass spectrometry at Trial by Metabo-ring: Effective electrophoretic mobility for Reproducible and Robust Compound Annotation**  
[\(link\)](#)  
[V. González-Ruiz](#) (author 44/46)

34. **Is pain temporary and glory forever? Detection of tramadol using dried blood spot in cycling competitions** ([link](#))  
O. Salamin, A. Garcia, V. González-Ruiz, F. Rossi, X. Bigard, J. Déglon, Y. Daali, R. Faiss, M. Saugy, S. Rudaz  
[Drug Testing and Analysis](#) (2020), ePub ahead of print
33. **Antioxidants as Molecular Probes: Structurally Novel Dihydro-*m*-Terphenyls as Turn-On Fluorescence Chemodosimeters for Biologically Relevant Oxidants** ([link](#))  
V. González-Ruiz, J. Rajesh, A. I. Olives, D. Rocchi, J. Gómez-Carpintero, J. F. González, V. Sridharan, M. A. Martín, J. C. Menéndez  
[Antioxidants](#) (2020), 9, 605
32. **Applicability of supercritical fluid chromatography – mass spectrometry to metabolomics. II – Assessment of a comprehensive library of metabolites and evaluation of biological matrices** ([link](#))  
J. L. Losacco, O. Ismail, J. Pezzatti, V. González-Ruiz, J. Boccard, S. Rudaz, J.-L. Veuthey, D. Guillarme  
[Journal of Chromatography A](#) (2020), 1620, 461021
31. **Bacterial cell cycle control by citrate synthase independent of enzymatic activity** ([link](#))  
M. Bergé, J. Pezzatti, V. González-Ruiz, L. Degeorges, G. Mottet-Osman, S. Rudaz, P. H. Viollier  
[eLIFE](#) (2020), 9, e52272
30. **Implementation of liquid chromatography–high resolution mass spectrometry methods for untargeted metabolomic analyses of biological samples: a tutorial** ([link](#))  
J. Pezzatti, J. Boccard, S. Codesido, Y. Gagnebin, A. Joshi, D. Picard, V. González-Ruiz, S. Rudaz  
[Analytica Chimica Acta](#) (2020), 1105, 28-44
29. **Profiling of anabolic androgenic steroids and selective androgen receptor modulators for interference with adrenal steroidogenesis** ([link](#))  
M. Patt, K. R. Beck, T. Di Marco, M.-C. Jäger, V. González-Ruiz, J. Boccard, S. Rudaz, R. W. Hartmann, M. Salah, C. J. van Koppen, M. Grill, A. Odermatt  
[Biochemical Pharmacology](#) (2020), 172, 113781
28. **Steroid profile analysis by LC-HRMS in human seminal fluid** ([link](#))  
E. Olesti, A. Garcia, R. Rahban, M.F. Rossier, J. Boccard, S. Nef, V. González-Ruiz, S. Rudaz  
[Journal of Chromatography B](#) (2020), 1136, 121929
27. **Analytical strategies for the determination of amino acids: past, present and future trends** ([link](#))  
S. Ferre, V. González-Ruiz, S. Rudaz, D. Guillarme  
[Journal of Chromatography B](#) (2019) 1132, 121819
26. **Development and validation of a chiral UHPLC-MS method for the analysis of cysteine enantiomers in biological samples** ([link](#))  
V. González-Ruiz, L. Pucciarini, J. Zangari, J.-C. Martinou, B. Natalini, R. Sardella, S. Rudaz  
[Journal of Pharmaceutical and Biomedical Analysis](#) (2020) 117, 112841
25. **Choosing an Optimal Sample Preparation in *Caulobacter crescentus* for Untargeted Metabolomics Approaches** ([link](#))  
J. Pezzatti, M. Bergé, J. Boccard, S. Codesido, Y. Gagnebin, P. H. Viollier, V. González-Ruiz, S. Rudaz  
[Metabolites](#) (2019) 9, 193
24. **Protein pathway analysis to study development-dependent effects of acute and repeated trimethyltin (TMT) treatments in 3D rat brain cell cultures** ([link](#))  
D. Schwartz, V. González-Ruiz, N. Walter, P. Antinori, F. Jeanneret, D. Tonoli, J. Boccard, M.-G. Zurich, S. Rudaz, F. Monnet-Tschudi, J. Sandström, J.-C. Sanchez  
[Toxicology in Vitro](#) (2019) 60, 281
23. **DynaStI: A Dynamic Retention Time Database for Steroidomics** ([link](#))  
S. Codesido, G. M. Randazzo, F. Lehmann, V. González-Ruiz, A. García, I. Xenarios, R. Liechti, A. Bridge, J. Boccard, S. Rudaz

[Metabolites](#) (2019) 9, 85

22. **An Integrative Multi-Omics Workflow to Address Multifactorial Toxicology Experiments** ([link](#))  
V. González-Ruiz, D. Schwartz, J. Sandström, J. Pezzatti, F. Jeanneret, D. Tonoli, J. Boccard, F. Monnet-Tschudi, J.-C. Sanchez, S. Rudaz  
[Metabolites](#) (2019) 9, 79
21. **A scoring approach for multi-platform acquisition in metabolomics** ([link](#))  
J. Pezzatti, V. González-Ruiz, S. Codesido, Y. Gagnebin, A. Joshi, D. Guillarme, J. Schappler, D. Picard, J. Boccard, S. Rudaz  
[Journal of Chromatography A](#) (2019) 1592, 47-54
20. **Three-Component Synthesis of a Library of *m*-Terphenyl Derivatives with Embedded  $\beta$ -Aminoester Moieties** ([link](#))  
D. Rocchi, J. F. González, J. Gómez-Carpintero, V. González-Ruiz, M. A. Martín, V. Sridharan, J. Carlos Menéndez  
[ACS Combinatorial Science](#) (2018) 20, 722-731
19. **Effective mobility as a robust criterion for compound annotation and identification in metabolomics: Toward a mobility-based library** ([link](#))  
N. Drouin, J. Pezzatti, Y. Gagnebin, V. González-Ruiz, J. Schappler, S. Rudaz  
[Analytica Chimica Acta](#) (2018) 1032, 178-187
18. **Applicability of supercritical fluid chromatography – mass spectrometry to metabolomics. I – Optimization of separation conditions for the simultaneous analysis of hydrophilic and lipophilic substances** ([link](#))  
V. Desfontaine, G. L. Losacco, Y. Gagnebin, J. Pezzatti, W. P. Farrel, V. González-Ruiz, S. Rudaz, J. L. Veuthey, D. Guillarme  
[Journal of Chromatography A](#) (2018) 1562, 96-107
17. **ROMANCE: a new software tool to improve data robustness in CE-MS metabolomics** ([link](#))  
V. González-Ruiz, Y. Gagnebin, N. Drouin, S. Codesido, S. Rudaz, J. Schappler  
[Electrophoresis](#) (2018) 39, 1222-1232
16. **Evolution in the design of a low sheath-flow interface for CE-MS and application to biological samples** ([link](#))  
V. González-Ruiz, S. Codesido, S. Rudaz, J. Schappler  
[Electrophoresis](#) (2018) 39, 853-861
15. **Unravelling the effects of multiple experimental factors in HILIC-HRMS metabolomics of human neural cells** ([link](#))  
V. González-Ruiz, J. Pezzatti, A. Roux, L. Stoppini, J. Boccard, S. Rudaz  
[Journal of Chromatography A](#) (2017) 1527, 53-60
14. **Sustainable and Eco-Friendly Alternatives for Liquid Chromatographic Analysis** ([link](#))  
A. I. Olives, V. González-Ruiz, M. A. Martín  
[ACS Sustainable Chemistry and Engineering](#) (2017), 5, 5618–5634
13. **Evaluation of a new low sheath-flow interface for CE-MS** ([link](#))  
V. González-Ruiz, S. Codesido, J. Far, S. Rudaz, J. Schappler  
[Electrophoresis](#) (2016) 37, 936-946
12. **Core-shell particles lead the way to renewing high-performance liquid chromatography** ([link](#))  
V. González-Ruiz; A. I. Olives; M. A. Martín  
[Trends in Analytical Chemistry](#) (2015) 64, 17-28
11. **Challenging core-shell stationary phases with the separation of closely related anti-cancer compounds: performance studies and application to drug quantitation in cell cultures with multi-well plate clean-up** ([link](#))  
V. González-Ruiz; A. I. Olives; M. A. Martín  
[Journal of Chromatography A](#) (2014) 1364, 83-95
10. **B-ring-aryl substituted luotonin A analogues with a new binding mode to the topoisomerase 1-DNA complex show enhanced cytotoxic activity** ([link](#))



[V. González-Ruiz](#); I. Pascua; T. Fernández-Marcelo; P. Ribelles; G. Bianchini; V. Sridharan; P. Iniesta; M. T. Ramos; A. I. Olives; M. A. Martín; J. C. Menéndez  
[PLoS ONE](#) (2014) 9, e95998

9. **A down-scaled fluorimetric determination of the solubility properties of drugs to minimize waste generation** ([link](#))  
[V. González-Ruiz](#); A. I. Olives; M. A. Martín  
[Green Chemistry](#) (2013) 15, 2558-2565
8. **A fluorescent styrylquinoline with combined therapeutic and diagnostic activities against Alzheimer's and prion diseases** ([link](#))  
M. Staderini; S. Aulic; M. Bartolini; H. N. Ai Tran; [V. González-Ruiz](#); D. I. Pérez; N. Cabezas; A. Martínez; M. A. Martín; V. Andrisano; G. Legname; J. C. Menéndez; M. L. Bolognesi  
[ACS Medicinal Chemistry Letters](#) (2013) 4, 225-229
7. **An easily built smoking machine for use by undergraduate students in the determination of total particulate matter and nicotine in tobacco smoke** ([link](#))  
[V. González-Ruiz](#); M. A. Martín; A. I. Olives  
[Journal of Chemical Education](#) (2012) 89, 771 - 775
6. **Isolation and quantitative methods for analysis of non-steroidal anti-inflammatory drugs** ([link](#))  
A. I. Olives; [V. González-Ruiz](#); M. A. Martín  
[Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry](#) (2012) 11, 65-95
5. **Fluorescence properties of the natural anti-tumour alkaloid luotonin A and new analogues. pH modulation as an approach to their fluorimetric quantitation in biological samples** ([link](#))  
[V. González-Ruiz](#); Y. González-Cuevas; S. Arunachalam; M. A. Martín; A. I. Olives; P. Ribelles; M. T. Ramos; J. C. Menéndez  
[Journal of Luminescence](#) (2012) 132, 2468-2475
4. **SPE/RP-HPLC using C1 columns: an environmentally friendly alternative to conventional reverse phase separations for quantitation of beta-carboline alkaloids in human serum samples** ([link](#))  
[V. González-Ruiz](#); A. I. Olives; M. A. Martín  
[Analytical and Bioanalytical Chemistry](#) (2011) 400, 395-401
3. **Study of non-covalent interactions of luotonin A derivatives and DNA. Perspectives on their use as sensing molecules for DNA hybridization** ([link](#))  
P. Mussardo; E. Corda; [V. González-Ruiz](#); R. Jegathalaprathaban; S. Girotti; M. A. Martín; A. I. Olives  
[Analytical and Bioanalytical Chemistry](#) (2011) 400, 321-327
2. **Eco-friendly liquid chromatographic separations based on the use of cyclodextrins as mobile phase additives** ([link](#))  
[V. González-Ruiz](#); A. G. León; A. I. Olives; M. A. Martín; J. C. Menéndez  
[Green Chemistry](#) (2011) 13, 115-126
1. **Liquid chromatographic analysis of the anticancer alkaloid luotonin A and some new derivatives in human serum samples** ([link](#))  
[V. González-Ruiz](#); P. Mussardo; E. Corda; S. Girotti; A. I. Olives; M. A. Martín  
[Journal of Separation Science](#) (2010) 33, 2086-2093

## 10.2. Books and book chapters

7. **Evaluation of prototype sheath-liquid interfaces**  
[V. González-Ruiz](#), S. Ferré, J. Boccard, S. Rudaz  
In *Capillary Electrophoresis-Mass Spectrometry: Methods and Protocols, Methods in Molecular Biology series*, (2021) C. Neusüß (Ed.). Springer Nature (*in press*).
6. **Mass spectrometry metabolomic data handling for biomarker discovery** ([link](#))  
J. Boccard, [V. González-Ruiz](#), S. Codesido, S. Rudaz  
In *Proteomic and Metabolomic Approaches to Biomarker Discovery*, (2020) H. J. Issaq and T. D. Veenstra (Eds.), pp. 369-388, ISBN 978-0-12-818607-7. Elsevier-Academic Press (UK)
5. **CE-MS in Drug analysis and Bioanalysis** ([link](#))  
J. Schappler, [V. González-Ruiz](#), S. Rudaz

In Capillary Electrophoresis - Mass Spectrometry (CE-MS). Principles and Applications, (2016) Gerhardus de Jong (Ed.), pp. 129-157, ISBN 978-3-527-33924-2. Wiley-VCH (Germany)

4. **Development of sustainable analytical methodologies to study pharmaceutically relevant heterocycles**  
V. González-Ruiz  
PhD Thesis, (2014). Self-published, Madrid (Spain)
3. **“De la teoría a la práctica”: adquiriendo los conocimientos, capacidades y aplicaciones de la Química Analítica a las Ciencias Farmacéuticas**  
V. González-Ruiz; R. Rodrigo; M. A. Martín; A. I. Olives  
ISBN 978-84-96704-53-4. Universidad Complutense de Madrid (Spain)
2. **An overview of analytical techniques employed to evidence drug-DNA interactions: applications to the design of genosensors** ([link](#))  
V. González-Ruiz; A. I. Olives; M. A. Martín; P. Ribelles; M. T. Ramos; J. C. Menéndez  
In Biomedical Engineering, Trends, Researches and Technologies, (2011) Malgorzata Anna Komorowska and Sylwia Olsztyńska-Janus (Eds.) 65-90, ISBN 978-953-307-514-3. InTech (Croatia)
1. **Recognition of biologically relevant anions using a fluorescent carbazole derivative**  
V. González-Ruiz  
Master Thesis, (2011), ISBN 978-8-4694-1489-7. Self-published, Madrid (Spain)

### 10.3. Pre-prints

2. **A mature ROMANCE: a matter of quantity and how two can be better than one** ([link](#))  
S. Codesido, N. Drouin, S. Ferre, J. Schappler, S. Rudaz, V. González-Ruiz  
[chemRxiv](#) (2020) New results, posted 14-05-2020, not peer-reviewed
1. **Bacterial cell cycle control by citrate synthase independent of enzymatic activity** ([link](#))  
M. Bergé, J. Pezzatti, V. González-Ruiz, L. Degeorges, S. Rudaz, P. H. Viollier  
[bioRxiv](#) (2019) New results, posted 10-10-2019, not peer-reviewed

### 10.4. Articles on pharmaceutical care and chemistry teaching

5. **Percepción de los pacientes sobre el precio de los medicamentos que utilizan: análisis en una farmacia comunitaria de Madrid** ([link](#))  
E. Pérez; V. González-Ruiz; T. Ochoa; A. M. Cosín  
Farmacéuticos Comunitarios (2013) 5, 136-140
4. **Estudio de variables experimentales en la cuantificación de especies reactivas de oxígeno mediante el empleo de sondas fluorescentes** ([link](#))  
A. Ruiz-Parrado; C. Torralbo; V. González-Ruiz; A. I. Olives; M. A. Martín  
REDuca: Recursos Educativos (2013) 5, 54-60
3. **Análisis y grado de cumplimiento farmacoterapéutico en pacientes polimedicados en una farmacia comunitaria de Madrid** ([link](#))  
E. Pérez; A. M. Cosín; T. Ochoa; V. González-Ruiz; I. Iglesias; J. Benedí  
Schironia (2012) June, 20-23
2. **Theory to practice: acquiring the knowledge, capabilities and applications of Analytical Chemistry in Pharmaceutical Sciences**  
A. I. Olives; V. González-Ruiz; R. Rodrigo; P. Bootello; M. A. Martín  
ISBN 978-84-615-3324-4. International Association of Technology, Education and Development (Spain)  
Proceedings of the 4th International Conference of Education, Research and Innovation, (2011) 1173-1179
1. **Factores experimentales que afectan a la separación y cuantificación de antitumorales de origen natural por HPLC-fluorescencia** ([link](#))  
M. d. M. Hilillo; V. González-Ruiz; A. I. Olives  
REDuca: Recursos Educativos, (2011) 3, 5-5

## 10.5. Extended abstracts

8. **Analyse métabolomique non ciblée de la neuroinflammation induite dans des cultures 3D humaines assistée par la chimiométrie** ([link](#))  
V. González-Ruiz, J. Pezzatti, F. Jeanneret, D. Tonoli, J. Sandström, F. Monnet-Tschudi, J. Boccard, S. Rudaz  
Toxicologie Analytique et Clinique (2018) 30, S31
7. **Miniaturized Fluorescence Assay for Studying the Effect of hydroxypropil-beta-cyclodextrin on the Aqueous Solubility of the Alkaloid luotonin A and Some Analogues**  
V. González-Ruiz; S. Ródenas; M. A. Martín; A. I. Olives  
Luminescence (2012) 27, 545
6. **Searching for New Fluorescent Probes to Detect Beta-Amyloid Proteins Involved in Alzheimer's Disease**  
V. González-Ruiz; M. Staderini; M. Bartolini; V. Andrisano; M. L. Bolognesi; J. C. Menendez; A. I. Olives; M. A. Martín  
Luminescence (2012) 27, 539
5. **Detection of reactive oxygen species in aqueous media employing fluorescent sensors derived from diarylcyclohexadiene**  
V. González-Ruiz; R. Jegathalaprathaban; S. Vellaisamy; J. C. Menéndez; M. A. Martín  
ISBN 978-84-695-5262-9. Universidad de Valencia (Spain)  
Book of the VI Workshop on Sensors and Molecular Recognition (2012) 16/1-16/5
4. **Chromatographic determination of beta-carboline alkaloids in human serum samples on C1 stationary phase and water enriched mobile phase** ([link](#))  
V. González-Ruiz; M. A. Martín; B. del Castillo; A. I. Olives  
Luminescence (2010) 25, 283
3. **Developing beta-cyclodextrin inclusion complexes for the newly synthesized anti-tumour agent derived from natural alkaloid luotonin A** ([link](#))  
J. J. García-Miquel; V. González-Ruiz; A. I. Olives; M. A. Martín  
Luminescence (2010) 25, 261
2. **Fluorescence quenching studies of luotonin A and derivatives as a valuable evidence of their interaction with DNA** ([link](#))  
P. Mussardo; V. González-Ruiz; R. Jegathalaprathaban; E. Corda; S. Girotti; A. I. Olives; M. A. Martín  
Luminescence (2010) 25, 259
1. **Molecular recognition of anions by carbazole fluorescence chemosensors** ([link](#))  
V. González-Ruiz; S. Vellaisamy; A. I. Olives; M. A. Martín; B. del Castillo; J. C. Menéndez  
Luminescence (2006) 25, 259

## 11. Conferences and symposia

### 11.1. Oral communications

20. **Update on Core Project 2: Endocrine disruption and steroid hormone action**  
Víctor González-Ruiz, Serge Rudaz, Alex Odermatt  
Scientific Advisory Board Meeting of the SCAHT. Virtual meeting, 2020
19. **Update on Core Project 3: Neurotoxicity**  
Víctor González-Ruiz, Marie-Gabrielle Zurich  
Scientific Advisory Board Meeting of the SCAHT. Virtual meeting, 2020
18. **Mix it up! How to combine multiple LC-MS modes and design of experiments to understand multifactorial biological phenomena**  
Víctor González-Ruiz, Eulàlia Olesti, Mariana Silvano, Santiago Codesido, Domitille Schwartz, Jean-Charles Sanchez, Julien Boccard, Ariel Ruiz i Altaba, Serge Rudaz  
European RFMF Metabomeeting 2020. Toulouse, France, 2020
17. **LC- and CE-MS-based workflow for metabolic read-across of new toxicants in neuroinflammation**

- V. González-Ruiz, Domitille Schvartz, David Pamies, Nicolas Drouin, Marie-Gabrielle Zurich, Julien Boccard, Jean-Charles Sanchez, Serge Rudaz  
Mass Spectrometry: applications to the clinical lab, MSACL EU. Salzburg, Austria, 2019
16. **Enhancing the robustness of your CE-MS data with ROMANCE: electrophoretic mobility made easy**  
V. González-Ruiz, Santiago Codesido, Nicolas Drouin, Yoric Gagnebin, Julie Schappler, Serge Rudaz  
26<sup>th</sup> International Symposium on Electroseparation and Liquid Phase-Separation Techniques, ITP. Toulouse, France, 2019
  15. **New kid on the block: what metabolomics can do for regulatory toxicology**  
V. González-Ruiz, Julien Boccard, Serge Rudaz  
SCAHT Research Retreat '19. Murten, Switzerland, 2019.
  14. **Getting more information from fewer samples: a new algorithm for analysis of omics data in multifactorial experimental designs**  
V. González-Ruiz, Domitille Schvartz, Jenny Sandström, Julien Boccard, Jean-Charles Sanchez, Florianne Monnet-Tschudi, Serge Rudaz  
35<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Corvallis (OR), USA, 2019
  13. **Untargeted metabolomics to understand the role of organometallic compounds in neural inflammation**  
V. González-Ruiz, Domitille Schvartz, Jenny Sandström, Julien Boccard, Jean-Charles Sanchez, Florianne Monnet-Tschudi, Serge Rudaz  
CITB Seminar Series. Geneva, Switzerland, 2019
  12. **A faster way to electrophoretic mobility: how to enhance the robustness of your CE-MS data with ROMANCE**  
V. González-Ruiz, S. Codesido, N. Drouin, Y. Gagnebin, J. Schappler, S. Rudaz  
XVIII Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. Granada, Spain, 2018
  11. **Update on the Neurotox Core Project metabolomic analyses**  
V. González-Ruiz  
Scientific Advisory Board Meeting of the SCAHT. Olten, Switzerland, 2018
  10. **Analyse métabolomique non-ciblée de la neuroinflammation induite dans des cultures 3D humaines assistée par la chimiométrie**  
V. González-Ruiz, J. Pezzatti, F. Jeanneret, D. Tonoli, J. Sandström, F. Monnet-Tschudi, J. Boccard, S. Rudaz  
26<sup>ème</sup> Congrès Société Française de Toxicologie Analytique. Marseille, France, 2018
  9. **The Fast Track to Electrophoretic Mobility: Enhancing the Robustness of your Metabolomic Data with ROMANCE**  
V. González-Ruiz, N. Drouin, S. Codesido, Y. Gagnebin, S. Rudaz, J. Schappler  
34<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Rio de Janeiro, Brazil, 2018
  8. **Two birds, one stone: ANOVA multiblock OPLS supports data analysis and method comparison in toxicant-induced neuroinflammation observed in 3D rat neural cell cultures**  
V. González-Ruiz, J. Pezzatti, J. Sandström, F. Monnet-Tschudi, J. Boccard, S. Rudaz  
Conférence de Spectrométrie de Masse, Métabolomique et Fluxomique & Electrophorèse et Analyse Protéomique, SMMAP. Paris, France, 2017
  7. **Metabolomic data analysis and method comparison for exploring toxicant-induced neuroinflammation in 3D rat neural cell cultures**  
V. González-Ruiz; J. Sandström, F. Monnet-Tschudi, J. Boccard, S. Rudaz  
SCAHT Research Retreat '17. Montezillon, Switzerland, 2017
  6. **Untargeted data acquisition for metabolomic studies in neuroinflammation**  
V. González-Ruiz; A. Roux, L. Stoppini, J. Boccard, S. Rudaz  
SCAHT Research Retreat '16. Montezillon, Switzerland, 2016

5. **Putting together neuroinflammation, untargeted metabolomics and data mining in biomarker discovery for neurodegenerative diseases**  
F. Jeanneret, V. González-Ruiz, J. Sandström, F. Tschudi-Monnet, M.-G. Zurich, J. Boccard, S. Rudaz  
MedLem 2016. Geneva, Switzerland, 2016
4. **Searching for new fluorescent probes to detect beta-amyloid proteins involved in Alzheimer's disease**  
V. González-Ruiz; M. Staderini; M. Bartolini; V. Andrisano; M. L. Bolognesi; N. Cabezas; J. C. Menendez; A. I. Olives; M. A. Martín  
XV International Symposium on Luminescence Spectrometry. Barcelona, Spain, 2012
3. **Condiciones experimentales para la formación de complejos de inclusión entre 14-metil-luotonina y beta-ciclodextrinas. Repercusiones de interés analítico y farmacológico.**  
M. A. Martín; V. González-Ruiz; Y. González-Cuevas; A. I. Olives  
XXXIII Reunión Bial de la Real Sociedad Española de Química. Valencia, Spain, 2011
2. **Nuevos avances en la terapéutica de la diabetes mellitus.**  
F. Corral-Esquiva; E. González-Burgos; V. González-Ruiz  
I Jornadas Complutenses de Investigación para Alumnos de Pregrado en Ciencias de la Salud. Madrid, Spain, 2006
1. **La salud del paciente: un objetivo común. Estado de la atención farmacéutica en España.**  
V. González-Ruiz; V. Carretón; S. Hernández  
XXVIII Congreso Nacional de Farmacología para Estudiantes. Madrid, Spain, 2006

## 11.2. Oral communications (co-author)

17. **Introduction of Project 5 (2021-2024): Bioanalytical and metabolomic readouts for toxicology**  
Víctor González-Ruiz, Serge Rudaz  
Scientific Advisory Board Meeting of the SCAHT. Virtual meeting, 2020
16. **Steroid profile in human seminal fluid: is it linked to sperm quality?**  
E. Olesti, S. Codesido, A. Garcia, R. Rahban, M. Rossier, J. Boccard, S. Nef, V. González-Ruiz, S. Rudaz  
36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Virtual Edition, 2020.
15. **ROMANCE strikes back: on the path to reliable CE-MS quantification**  
S. Codesido, N. Drouin, S. Ferre, J. Schappler, V. González-Ruiz, Serge Rudaz  
36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Virtual Edition, 2020.
14. **Evaluation of a nanoflow interface based on the triple-tube coaxial sheath-flow sprayer**  
S. Ferré, N. Drouin, H.-P. Zimmermann, V. González-Ruiz, S. Rudaz  
36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Virtual Edition, 2020.
13. **Metabolomics approaches in toxicology**  
V. González-Ruiz, E. Olesti, J. Boccard, S. Rudaz  
Swiss Society of Toxicology Annual Meeting 2019. Basel, Switzerland, 2019
12. **Dynamic retention time databases for steroidomics**  
S. Codesido, G. M. Randazzo, F. Lehmann, V. González-Ruiz, A. García, I. Xenarios, R. Liechti, A. Bridge, J. Boccard, S. Rudaz  
12<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Clermont-Ferrand, France, 2019
11. **Getting more from less: optimizing the investment of analytical resources in metabolomic studies by using a scoring algorithm**  
J. Pezzatti, V. González-Ruiz, S. Codesido, Y. Gagnebin, J. Boccard, S. Rudaz,  
11<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Liège, Belgium, 2018
10. **Annotation and Identification in CE-MS based Metabolomics: Towards a Mobility Based Library**  
J. Schappler, N. Drouin, J. Pezzatti, V. González-Ruiz, S. Rudaz  
34<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Rio de Janeiro, Brazil, 2018

9. **ANOVA Multiblocks OPLS (AMOPLS) as a powerful data analysis approach of human neural cells by HILIC-HRMS in metabolomics**  
S. Rudaz, V. González-Ruiz, J. Pezzatti, J. Sandström, Florianne Monnet-Tschudi, A. Roux, L. Stoppini, J. Boccard  
24<sup>th</sup> International Symposium on Electro- and Liquid Phase-Separation Techniques (ITP2017) and XI Polish Conference on Chromatography. Sopot, Poland, 2017
8. **CE-MS-based metabolomics for scarce biofluids**  
N. Drouin, V. González-Ruiz, S. Rudaz, J. Schappler  
Euroanalysis 2017. Stockholm, Sweden, 2017
7. **ANOVA Multiblock OPLS data analysis in the context of metabolomics analysis of human neural cells by HILIC-HRMS**  
S. Rudaz, V. González-Ruiz, J. Pezzatti, A. Roux, L. Stoppini, J. Boccard  
28<sup>th</sup> Pharmaceutical and Biomedical Analysis Conference (PBA 2017), Madrid, Spain, 2017
6. **Green strategies in sample pretreatment: meeting the challenge.**  
M. A. Martín, V. González-Ruiz, A. I. Olives  
1<sup>st</sup> Caparica Christmas Conference on Sample Treatment. Caparica, Portugal, 2014
5. **Styrylquinoline derivatives potentially useful as diagnostic and therapeutic agents in misfolding diseases.**  
M. Staderini; S. Aulic; M. Bartolini; H. N. A. Tran; V. González-Ruiz; D. I. Pérez; N. Cabezas; A. Martínez; M. A. Martín; V. Andrisano; G. Leganme; J. C. Menendez; M. L. Bolognesi  
2<sup>nd</sup> Meeting of the Paul Ehrlich MedChem Euro-Phd Network. Ljubljana, Slovenia, 2012
4. **¿Cómo perciben los pacientes el coste de los medicamentos que utilizan? Estudio en una farmacia comunitaria de Madrid.**  
E. Pérez-Pajares; M. T. Ochoa-Pérez; V. González-Ruiz; A. M. Cosín-Borobio  
Congreso y Salón Europeo de Oficina de Farmacia, Medicamentos y Parafarmacia (INFARMA 2012). Madrid, Spain, 2012
3. **Estudio del grado de cumplimiento farmacoterapéutico en pacientes polimedicados desde una farmacia comunitaria.**  
E. Pérez-Pajares; M. T. Ochoa-Pérez; V. González-Ruiz; A. M. Cosín-Borobio  
Congreso y Salón Europeo de Oficina de Farmacia, Medicamentos y Parafarmacia (INFARMA 2012). Madrid, Spain, 2012
2. **Determinación espectrofluorimétrica del pK<sub>a</sub> de los antitumorales de nueva síntesis derivados de luotonina A.**  
A. Buendía; M. Martín-Herrero; V. González-Ruiz  
V Jornadas Complutenses y IV Congreso Nacional de Investigación para Alumnos de Pregrado en Ciencias de la Salud. Madrid, Spain, 2010
1. **Análisis de alcaloides derivados de beta-carbolina por RP-HPLC con detección fluorescente.**  
P. Salas-Gómez-Pablos; V. González-Ruiz; A. I. Olives; M. A. Martín  
IV Jornadas Complutenses y III Congreso Nacional de Investigación para Alumnos de Pregrado en Ciencias de la Salud. Madrid, Spain, 2009

### 11.3. Poster communications

63. **Alternative quantification of endogenous steroids with one-point calibration**  
G. Visconti, E. Olesti, V. González-Ruiz, S. Rudaz  
36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Virtual Edition, 2020
62. **Investigating bacterial sample preparation to understand cell metabolism during replication using LC-HRMS**  
J. Pezzatti, M. Bergé, J. Boccard, S. Codesido, Y. Gagnebin, P. H. Viollier, V. González-Ruiz, S. Rudaz  
36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Virtual Edition, 2020
61. **CEU Mass Mediator: the tool to annotate compounds in CE-MS for metabolomics**  
A. Gil-de-la-Fuente, M. Mamani-Huanca, V. González-Ruiz, S. Codesido, N. Drouin, A. López-González, A. Gradillas, S. Rudaz, A. Otero, C. Barbas  
European RFMF Metabomeeting 2020. Toulouse, France, 2020

60. **Steroid profile in human seminal fluid: is it linked to sperm quality?**  
E. Olesti, S. Codesido, A. Garcia, R. Rahban, M. F. Rossier, J. Boccard, S. Nef, V. González-Ruiz, S. Rudaz  
European RFMF Metabomeeting 2020. Toulouse, France, 2020
59. **Biosource-guided network annotation and visualization for untargeted metabolomics**  
S. Codesido, V. González-Ruiz, E. Olesti, J. Boccard, S. Rudaz  
European RFMF Metabomeeting 2020. Toulouse, France, 2020
58. **DynaStI: a dynamic database for LC-MS annotation in metabolomics**  
G. M. Randazzo, F. Lehmann, V. González-Ruiz, A. García, I. Xenarios, R. Liechti, A. Bridge, J. Boccard, S. Rudaz,  
15<sup>th</sup> Annual Conference of the Metabolomics Society. The Hague, The Netherlands, 2019
57. **Identifying early and sensitive neuroenergetic markers of astrocytic activation**  
D. Pamies, D. Schwartz, V. González-Ruiz, J. Boccard, C. Nunes, D. Tavel, S. Rudaz, J.-C. Sanchez, and M.-G. Zurich  
Swiss Society of Toxicology Annual Meeting 2019. Basel, Switzerland, 2019
56. **Steroid profile analysis by LC-HRMS in human seminal fluid: Application to the FABER cohort**  
E. Olesti, A. Garcia, R. Rahban, M. Rossier, J. Boccard, S. Nef, V. González-Ruiz, S. Rudaz  
Swiss Society of Toxicology Annual Meeting 2019. Basel, Switzerland, 2019
55. **AMOPLS facilitates data analysis in multifactorial toxicological studies using metabolomics: 3D neural cultures as a case study**  
V. González-Ruiz, D. Schwartz, J. Sandström, F. Monnet-Tschudi, M.-G. Zurich, J.-C. Sanchez, J. Boccard, S. Rudaz  
Swiss Society of Toxicology Annual Meeting 2019. Basel, Switzerland, 2019
54. **Using electrophoretic mobility for easy annotation of CE-MS metabolomics data with ROMANCE**  
V. González-Ruiz, S. Codesido, N. Drouin, J. Schappler, S. Rudaz.  
Annual Meeting of the Swiss Metabolomics Society 2019. Basel, Switzerland, 2019
53. **Turn-on fluorescence chemodosimeters for the determination of biologically relevant analytes through the aromatization of diarylcyclohexadienes and an efficient ICT process**  
V. González-Ruiz, J. Rajesh, A.I. Olives, M.A. Martín, R. León, P. Michalska, J. Gómez-Carpintero, J.F. González, V. Sridharan, J.C. Menéndez  
International Symposium on Dyes and Pigments. Seville, Spain, 2019
52. **Investigating sample preparation procedures for *Caulobacter crescentus* in non-targeted metabolomics**  
J. Pezzatti, V. González-Ruiz, M. Bergé, S. Codesido Sanchez, Y. Gagnebin, J. Boccard, P. Viollier, S. Rudaz  
12<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Clermont-Ferrand, France, 2019
51. **"Less is More" : Analyse de données multivariées issues de plans d'expériences multifactorielles**  
V. González-Ruiz, D. Schwartz, J. Sandström, J. Pezzatti, F. Jeanneret, D. Tonoli, J. Boccard, F. Monnet-Tschudi, J.-C. Sanchez, S. Rudaz  
12<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Clermont-Ferrand, France, 2019
50. **ANOVA Multiblock OPLS as a powerful data analysis approach in structured metabolomics: human neural cells as a case study**  
Serge Rudaz, Víctor González-Ruiz, Julian Pezzatti, Jenny Sandström, Florianne Monnet-Tschudi, Domitille Schwartz, Marie-Gabrielle Zurich, Jean-Charles Sanchez, Julien Boccard  
Metabomeeting 2018. Nottingham, United Kingdom, 2018
49. **Selecting an optimal sample preparation in cell cultures for non-targeted metabolomics studies**  
Julian Pezzatti, Víctor González-Ruiz, Matthieu Bergé, Santiago Codesido, Patrick Viollier, Serge Rudaz  
Metabomeeting 2018. Nottingham, United Kingdom, 2018
48. **Steroid Signature in Blood and Seminal Liquid**  
Arnaud Garcia, Víctor González-Ruiz, Rita Rahban, Julien Boccard, Alfred Seen, Eric Stettler, Michel Rossier, Serge Nef, Serge Rudaz

- 32<sup>nd</sup> International Symposium on Chromatography (ISC 2018). Cannes-Mandelieu, France, 2018
47. **New insights in CE-MS-based metabolomics**  
Nicolas Drouin, Víctor González-Ruiz, Santiago Codesido Sanchez, Serge Rudaz, Julie Schappler  
32<sup>nd</sup> International Symposium on Chromatography (ISC 2018). Cannes-Mandelieu, France, 2018
  46. **Derringer's desirability functions as a scoring algorithm for optimizing analytical resources in metabolomic studies**  
Julian Pezzatti, Víctor González-Ruiz, Santiago Codesido, Yoric Gagnebin, Julien Boccard, Serge Rudaz  
32<sup>nd</sup> International Symposium on Chromatography (ISC 2018). Cannes-Mandelieu, France, 2018
  45. **Steroid Signature in Blood and Seminal Liquid**  
Víctor González-Ruiz, Arnaud Garcia, Rita Rahban, Julien Boccard, Serge Nef, Serge Rudaz  
11<sup>th</sup> International Symposium on Drug Analysis and 29<sup>th</sup> International Symposium on Pharmaceutical and Biomedical Analysis. Leuven, Belgium, 2018
  44. **Identifying metabolites with CE-MS: improved reproducibility from improved migration modeling**  
Santiago Codesido Sánchez, Nicolas Drouin, Víctor González-Ruiz, Yoric Gagnebin, Julien Boccard, Julie Schappler, Serge Rudaz  
11<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Liège, Belgium, 2018
  43. **Steroidomic Profiling For The Analysis Of Seminal Liquid: The "PNR 50" Case Study**  
Arnaud Garcia, Víctor González-Ruiz, Julien Boccard, Alfred Seen, Eric Stettler, Michel Rossier, Serge Nef, Serge Rudaz  
11<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Liège, Belgium, 2018
  42. **Take the fast track to electrophoretic mobility: enhancing the robustness of your metabolomic data with ROMANCE**  
Víctor González-Ruiz, Yoric Gagnebin, Nicolas Drouin, Santiago Codesido, Julie Schappler, Serge Rudaz  
11<sup>èmes</sup> Journées Scientifiques du Réseau Francophone de Métabolomique et Fluxomique. Liège, Belgium, 2018
  41. **Development of an effective mobility-based database for metabolomics identification**  
Nicolas Drouin, Julian Pezzatti, Yoric Gagnebin, Víctor González Ruiz, Serge Rudaz, Julie Schappler  
34<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Rio de Janeiro, Brazil, 2018
  40. **ROMANCE: improving data exchange and robustness in CE-MS based metabolomics**  
Víctor González-Ruiz, Yoric Gagnebin, Nicolas Drouin, Santiago Codesido, Serge Rudaz, Julie Schappler  
34<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB. Rio de Janeiro, Brazil, 2018
  39. **Development of a database of reference compounds for metabolomic studies**  
J. Pezzatti, V. González-Ruiz, S. Rudaz  
MedLem 2017. Lausanne, Switzerland, 2017
  38. **Take the fast track to electrophoretic mobility: enhancing the robustness of your metabolomic data with ROMANCE**  
V. González-Ruiz, Y. Gagnebin, N. Drouin, S. Codesido, S. Rudaz, J. Schappler  
Swiss Metabolomics Society Annual Meeting. Bern, Switzerland, 2017
  37. **Using a database of reference compounds to increase analytical efficiency in metabolomics**  
J. Pezzatti, V. González-Ruiz, S. Rudaz  
Swiss Metabolomics Society Annual Meeting. Bern, Switzerland, 2017
  36. **CE-MS for metabolomic analysis**  
Nicolas Drouin, Julian Pezzatti, Víctor González Ruiz, Serge Rudaz, Julie Schappler  
Conférence de Spectrométrie de Masse, Métabolomique et Fluxomique & Electrophorèse et Analyse Protéomique, SMMAP. Paris, France, 2017



35. **Analytical Coverage Investigation of a Database of Reference Compounds for Metabolomic Studies**  
Julian Pezzatti, Víctor González-Ruiz, Nicolas Drouin, Yoric Gagnebin, Serge Rudaz  
Conférence de Spectrométrie de Masse, Métabolomique et Fluxomique & Electrophorèse et Analyse Protéomique, SMMAP. Paris, France, 2017
34. **ROMANCE: a new software tool to improve data robustness in CE-MS metabolomics**  
V. González-Ruiz, N. Drouin, S. Codesido, Y. Gagnebin, S. Rudaz, J. Schappler  
28<sup>th</sup> Pharmaceutical and Biomedical Analysis Conference (PBA 2017). Madrid, Spain, 2017
33. **Development of a database of reference compounds for metabolomic studies**  
J. Pezzatti, V. González-Ruiz, S. Rudaz  
28<sup>th</sup> Pharmaceutical and Biomedical Analysis Conference (PBA 2017). Madrid, Spain, 2017
32. **Metabolomics of Human Neural Cells: an Untargeted HILIC-HRMS Approach Assisted by ANOVA Multiblock OPLS Data Analysis**  
V. González-Ruiz; A. Roux, L. Stoppini, J. Boccard, S. Rudaz  
33<sup>rd</sup> International Symposium on Microscale Separations & Bioanalysis (MSB 2017). Noordwijkerhout, The Netherlands, 2017
31. **Etude métabolomique de cellules neuronales humaines : approche HILIC-HRMS non-ciblée assistée par l'analyse de données ANOVA multiblocs OPLS**  
Julian Pezzatti, Víctor González-Ruiz, Serge Rudaz  
12<sup>ème</sup> Congrès Francophone sur les Sciences Séparatives et les Couplages de l'AFSEP, (SEP 2017). Paris, France, 2017
30. **Développement d'une base de données de composés de références en mode HILIC pour des études métabolomiques.**  
V. González-Ruiz; A. Roux, L. Stoppini, J. Boccard, S. Rudaz  
12<sup>ème</sup> Congrès Francophone sur les Sciences Séparatives et les Couplages de l'AFSEP, (SEP 2017). Paris, France, 2017
29. **Evaluation of a simple low sheath-flow interface for CE-MS**  
V. González-Ruiz, S. Codesido, J. Far, S. Rudaz, J. Schappler  
32<sup>nd</sup> International Symposium on Microscale Separations & Bioanalysis (MSB 2016). Niagara-on-the-Lake, Canada, 2016
28. **New CE-ESI-MS interface with in-axis configuration and ultra-low sheath liquid flow rate.**  
V. González-Ruiz, J. Far, F. de l'Escaille, S. Rudaz, J. Schappler  
22<sup>nd</sup> International Symposium on Electro- and Liquid Phase-Separation Techniques (ITP2015) and 8<sup>th</sup> Nordic Separation Science (NoSSS) Symposium. Helsinki, Finland, 2015
27. **Suitability of reverse stationary phases with different chemical functionalization and particle porosity: thermodynamic study and application to the analysis of luotonin A derivatives.**  
V. González-Ruiz, M. A. Martín, A. I. Olives  
XV Reunión Científica de la Sociedad Española de Cromatografía y Técnicas Afines (SECyTA 2015). Castellón, Spain, 2015
26. **New luotonin A analogues bearing aryl substituents at the B-ring show a new binding mode to the topoisomerase 1-DNA complex and enhanced cytotoxicities.**  
G. Bianchini; V. González-Ruiz; I. Pascua; T. Fernández-Marcelo; P. Ribelles; V. Sridharan; P. Iniesta; M. T. Ramos; A. I. Olives; M. A. Martín; J. C. Menéndez  
International Symposium on Medicinal Chemistry. Lisbon, Portugal, 2014
25. **Excited state proton transfer reactions of anti-tumor agents in cyclodextrin nanocavities.**  
M. A. Martín; V. Cervera-Carrascón; N. Viejo; B. Lanzón; V. González-Ruiz; A. I. Olives  
XXIV Reunión Nacional y VIII Congreso Ibérico de Espectroscopía. Logroño, Spain, 2014
24. **El paciente 2.0 revoluciona la farmacia comunitaria.**  
P. Barral-Martin; V. González-Ruiz; E. Pérez-Pajares; M. T. Ochoa-Pérez; A. M. Cosín-Borobio  
Congreso y Salón Europeo de Oficina de Farmacia, Medicamentos y Parafarmacia (INFARMA 2014). Madrid, Spain, 2014

23. **Topoisomerase 1 poisoning by luotonin A and analogues. Correlation to their anti-tumor activity.**  
V. González-Ruiz; I. Pascua; T. Fernández-Marcelo; P. Ribelles; M. T. Ramos; J. C. Menéndez; P. Iniesta; A. I. Olives; M. A. Martín  
 XXXIV Biental Meeting of the Royal Spanish Society of Chemistry. Santander, Spain, 2013
22. **Encapsulación de antitumorales inhibidores de topoisomerasa I en 2-hidroxiopropil-beta-ciclodextrina. Preparación y caracterización.**  
V. González-Ruiz; V. Cervera-Carrascón; A. I. Olives; M. A. Martín; J. C. Menéndez  
 XXXIV Biental Meeting of the Royal Spanish Society of Chemistry. Santander, Spain, 2013
21. **GN8 fluorescent analogues with concomitant therapeutic and diagnostic activities in prion diseases.**  
 M. Staderini; S. Aulic; V. González-Ruiz; G. Bianchini; L. Morelli; A. D'Onofrio; H. N. A. Tran; N. Cabezas; M. A. Martín; G. Legname; J. C. Menendez; M. L. Bolognesi.  
 COST Action TD1004: Theranostics Imaging and Therapy: an Action to Develop Novel Nanosized Systems for Imaging- Guided Drug Delivery. Athens, Greece, 2013
20. **Development of GN8 fluorescent analogues for prion diseases**  
 M. Staderini; S. Aulić; V. González-Ruiz; G. Bianchini; L. Morelli; A. D'Onofrio; H. N. A. Tran; N. Cabezas; M. A. Martín; G. Legname; J. C. Menendez; M. L. Bolognesi  
 European Molecular Imaging Meeting. Turin, Italy, 2013
19. **Percepción del coste de los medicamentos por parte de los pacientes de una farmacia comunitaria de madrid.**  
 E. Pérez-Pajares; M. T. Ochoa-Pérez; V. González-Ruiz; A. M. Cosín-Borobio  
 V Congreso Nacional De Farmacéuticos Comunitarios. Barcelona, Spain, 2012
18. **Comparison of commercially available per fluorinated and n-alkyl stationary phases for HPLC analysis of luotonins**  
V. González-Ruiz; A. I. Olives; M. A. Martín  
 XII Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. Tarragona, Spain, 2012
17. **Role of the solvent in the recognition process of anions by a fluorescent sensor derived from carbazole**  
V. González-Ruiz; A. I. Olives; M. A. Martín; V. Sridharan; M. Villacampa; J. C. Menéndez  
 XXIII National Meeting and VII Iberian Congress on Spectroscopy. Córdoba, Spain, 2012
16. **Sensores fluorescentes derivados de diarilciclohexadieno para la detección de ROS en medios acuosos.**  
V. González-Ruiz; R. Jegathalaprathaban; V. Sridharan; M. A. Martín; J. C. Menéndez  
 VI Workshop on Sensors and Molecular Recognition. Valencia, Spain, 2012
15. **Enhancing the pharmaceutical properties of the anti-cancer drug luotonin A: an HPLC-Fl and spectrofluorimetric study of their cyclodextrin complexation**  
V. González-Ruiz; M. A. Martín; A. I. Olives  
 XV International Symposium on Luminescence Spectrometry. Barcelona, Spain, 2012
14. **Styrylquinolines for the recognition of protein fibrillar aggregates.**  
 M. Staderini; H. N. A. Tran; V. González-Ruiz; D. I. Pérez; N. Cabezas; M. Bartolini; V. Andrisano; G. Leganme; A. Martínez; M. A. Martín; M. L. Bolognesi; J. C. Menendez  
 1st Biennial Meeting of the Chemical Biology Group - Real Sociedad Española de Química. Santiago de Compostela, Spain, 2012
13. **"Tutorage practices": a valuable tool for transmitting the relevance of analytical chemistry in pharmaceutical sciences.**  
V. González-Ruiz; M. A. Martín; A. I. Olives  
 4th International Conference of Education, Research and Innovation (ICERI 2011). Valencia, Spain, 2011
12. **Theory to practice: acquiring the knowledge, capabilities, and applications of analytical chemistry in pharmaceutical sciences**  
 A. I. Olives; V. González-Ruiz; R. Rodrigo; P. Bootello; M. A. Martín  
 4th International Conference of Education, Research and Innovation (ICERI 2011). Valencia, Spain, 2011

11. **ESPT en antitumorales derivados de luotonina A y su proyección analítica en la evaluación de su actividad biológica**  
V. González-Ruiz; R. Muñoz-Escudero; A. I. Olives; M. A. Martín  
 XXXIII Reunión Bienal de la Real Sociedad Española de Química. Valencia, Spain, 2011
10. **Synthesis of new luotonin A analogues and investigation of their interactions with DNA**  
V. González-Ruiz; P. Ribelles; A. I. Olives; M. T. Ramos; J. C. Menéndez; M. A. Martín  
 1<sup>st</sup> Meeting of the Paul Ehrlich MedChem Euro-PhD Network. Madrid, Spain, 2011
9. **Chromatographic determination of beta-carboline alkaloids in human serum samples on C1 stationary phases and water-enriched mobile phases**  
V. González-Ruiz; M. A. Martín; B. del Castillo; A. I. Olives  
 XIV International Symposium on Luminescence Spectrometry. Prague, Czech Republic, 2010
8. **Fluorescence quenching studies of luotonin A and derivatives as a valuable evidence of their interaction with DNA.**  
 P. Mussardo; V. González-Ruiz; E. Corda; J. Jegathalaprathaban; S. Girotti; A. I. Olives; M. A. Martín  
 XIV International Symposium on Luminescence Spectrometry. Prague, Czech Republic, 2010
7. **Developing beta-cyclodextrin inclusion complexes for the newly synthesized anti-tumour agents derived from natural alkaloid luotonin A.**  
 J. J. García-Miquel; V. González-Ruiz; A. I. Olives; M. A. Martín  
 XIV International Symposium on Luminescence Spectrometry. Prague, Czech Republic, 2010
6. **Mejora en los procedimientos de extracción de beta-carbolinas presentes en suero humano.**  
 M. Ortiz; V. González-Ruiz  
 V Jornadas Complutenses y IV Congreso Nacional de Investigación para Alumnos de Pregrado en Ciencias de la Salud. Madrid, Spain, 2010
5. **Development of chromatographic and spectroscopic methodologies for the quantitation of new luotonin A derivatives as potential anti-cancer drugs.**  
V. González-Ruiz; P. Mussardo; E. Corda; J. Jegathalaprathaban; S. Girotti; B. del Castillo; A. I. Olives; M. A. Martín  
 13th International Meeting Recent Developments in Pharmaceutical Analysis (RDPA 2010). Milan, Italy, 2009
4. **Exploring luotonin A analogues as DNA intercalating agents by spectrofluorimetric techniques. In vitro studies of their potential anti-tumour activity.**  
 S. Arunachalam; V. González-Ruiz; A. I. Olives; B. del Castillo; M. A. Martín; P. Ribelles; M. T. Ramos; J. C. Menéndez.  
 XIIIth International Symposium on Luminescence Spectrometry. Bologna, Italy, 2009
3. **Validation of a HPLC-fluorimetric detection method for the determination of beta-carbolines in biological samples incorporating cyclodextrins in the mobile phases**  
V. González-Ruiz; P. Garnica-Tapia; A. I. Olives; B. del Castillo; M. A. Martín  
 XIIIth International Symposium on Luminescence Spectrometry. Bologna, Italy, 2009
2. **Controles de calidad en suspensiones extemporáneas de ampicilina.**  
V. González-Ruiz; G. Curieses-Chamón; E. Pérez-Pajares  
 II Jornadas de Tecnología Farmacéutica. Madrid, Spain, 2007
1. **Carbazole derivatives as potential fluorescence chemosensors for anions.**  
V. González-Ruiz; V. Sridharan; A. I. Olives; M. A. Martín; B. del Castillo; J. C. Menéndez  
 XIIth International Symposium on Luminescence Spectrometry. Santiago de Compostela, Spain, 2006

## 12. Attended seminars, courses and workshops

Seminar **Metabolic networks to enrich and interpret metabolic fingerprints .**  
 Fabien Jourdan and Pablo Rodriguez Mier, INRAE Toxalim, Toulouse, France. Organized by the Early Career Member Network of the Metabolomics Society.  
 On-line, 2020

Symposium **Agilent's 2020 Virtual Omics Symposium.**  
 Organized by Agilent.  
 On-line, Switzerland, 2020

- Meeting **6<sup>th</sup> Annual Meeting of the Swiss Metabolomics Society.**  
Organized by the Swiss Metabolomics Society.  
On-line, Switzerland, 2020
- Workshop **AI for Metabolomics – A hands on introduction.**  
Endre Laczko, Metabolomics Team at the Functional Genomics Center Zurich.  
On-line, Switzerland, 2020
- Course **Technical Presentation III: “Persuasive Speaking”.**  
Damian Conway, Thoughtstream (Australia), organized by the Swiss Institute of Bioinformatics.  
Lausanne, Switzerland, 2018
- Workshop **La quantification en métabolomique.**  
Etienne Thevenot, David Touboul, Alexis Delabrière, Yann Guitton, Emilien Jaminet, Grégory Genta-Jouve, Atelier du RFMF 2018.  
Liège, Belgium, 2018
- Workshop **Outils d’annotation de données MS/MS : applications pratiques.**  
Justine Bertrand-Michel, Marlène Lacroix et Cécile Canlet, Atelier du RFMF 2018.  
Liège, Belgium, 2018
- Workshop **Clinical Metabolomics and Bio- marker Discovery using Capillary Electrophoresis-Mass Spectrometry.**  
Philip Britz-McKibbin, McMaster University, MSB 2018 Workshop.  
Rio de Janeiro, Brazil, 2018
- Course **Technical Presentation II: “Presentation Ninjutsu”.**  
Damian Conway, Thoughtstream (Australia), organized by the Swiss Institute of Bioinformatics.  
Lausanne, Switzerland, 2017
- Course **Technical Presentation I: “Presentation Aikido”.**  
Damian Conway, Thoughtstream (Australia), organized by the Swiss Institute of Bioinformatics.  
Lausanne, Switzerland, 2017
- Course **Metabolomics: From data to publication.**  
StarOmics program, Conférence Universitaire de Suisse Oriental.  
Lausanne, Switzerland, 2017
- Workshop **Outils d’analyse des spectres de fragmentation pour l’identification des petites molécules.**  
Atelier du RFMF 2017.  
Paris, France, 2017
- Workshop **Ion Mobility Mass Spectrometry.**  
Albert Konijnenberg, University of Antwerp, MSB 2017 Workshop.  
Noordwijkerhout, The Netherlands, 2017
- Workshop **Sampling and Sample Preparation for Bioanalysis.**  
Janusz Pawliszyn, University of Waterloo, MSB 2016 Workshop.  
Niagara-on-the-Lake, Canada, 2016
- Workshop **Bioinformatics and Statistical Methods for Metabolomics.**  
David Wishart, University of Alberta, MSB 2016 Workshop.  
Niagara-on-the-Lake, Canada, 2016
- Seminar **Patents and industrial property.**  
Bureau for the Transfer of Research Outcome, Complutense University of Madrid.  
Madrid, Spain, 2014
- Seminar **IV UCM Seminar on Patents: Patent Databases.**  
Bureau for the Transfer of Research Outcome, Complutense University of Madrid.  
Madrid, Spain, 2011

Seminar **Technology for Purification of Laboratory Water.**  
Millipore Spain.  
Madrid, Spain, 2010

Seminar **III UCM Seminar on Patents: Patentability and the Usefulness of Patents.**  
Bureau for the Transfer of Research Outcome, Complutense University of Madrid.  
Madrid, Spain, 2010

## 13. Other professional activities

### 13.1 Organization of congresses

Member of the Local Organizing Committee of the 36<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis, MSB 2020, 27<sup>th</sup>-30<sup>th</sup> September 2020. Symposium Chairs: Prof. Myriam Taverna (Université Paris-Saclay) and Prof. S. Rudaz (Université de Genève).

### 13.2 Peer-review duties for scientific journals

Analyst  
Analytical Chemistry  
Electrophoresis  
Journal of Chemical Education  
Journal of Chromatography A  
Journal of Chromatography B  
Journal of Liquid Chromatography and Related Technologies  
Journal of Separation Sciences  
Journal of Pharmaceutical and Biomedical Analysis  
Metabolites

### 13.3 Memberships of scientific societies and networks

Asociación de Científicos Españoles en Suiza  
Association Francophone des Sciences Séparatives (AFSEP, France)  
Centre de Compétences en Chimie et Toxicologie Analytiques (ccCTA, Switzerland)  
Réseau Francophone de Métabolomique et Fluxomique (RFMF, France-Belgium-Switzerland)  
Sociedad Española de Metabolómica  
Swiss Chemical Society (SCS, Switzerland)  
Swiss Metabolomics Society (SMS, Switzerland)