

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, commi 1 e 4, della Legge n. 240/2010 per il settore concorsuale 03/A1 - Chimica Analitica,
(settore scientifico-disciplinare CHIM/01 - Chimica Analitica)
presso il Dipartimento di CHIMICA, Codice concorso 4712

Emanuela GIONFRIDDO CURRICULUM VITAE

INFORMAZIONI PERSONALI

COGNOME	GIONFRIDDO
NOME	EMANUELA
DATA DI NASCITA	15/07/1986

ISTRUZIONE E FORMAZIONE

STUDI ACCADEMICI E TITOLI CONSEGUITI

11/2010 – 10/2013	Dottorato di ricerca in Chimica <i>Conseguito il 17/12/2013 presso l'Università della Calabria, Arcavacata di Rende (CS), – Dipartimento di Chimica e Tecnologie Chimiche</i> <ul style="list-style-type: none">➤ Relatori: Prof. Giovanni Sindona, Dr. Antonio Tagarelli,➤ Titolo della tesi: "Solid-Phase Microextraction coupled to gas-chromatography mass-spectrometry for bioclinical, environmental and food analysis"
2008 – 2010	Laurea Specialistica in Chimica <i>(Classe 62/S delle Lauree Specialistiche in Scienze Chimiche del D.M. 28/11/2000)</i> Conseguita il 07/10/2010 presso l'Università della Calabria, Arcavacata di Rende (CS) con voti 110/110 e lode <ul style="list-style-type: none">➤ Curriculum Scientifico: "Controllo dell'ambiente e della salute"➤ Titolo della tesi: "Qualità degli alimenti. Nuovo ed efficiente metodo per la determinazione di selenoamminoacidi mediante SPME-GC-MS/MS"

2005 – 2008	<p>Laurea in Chimica <i>(Classe 21 delle Lauree in Scienze e Tecnologie chimiche del D.M. 04/08/2000)</i></p> <p>Conseguita il 08/10/2008, presso l'Università della Calabria, Arcavacata di Rende, (CS), con voti 110/110 e lode</p> <p>➤ Curriculum Scientifico: <i>"Controllo dell'ambiente e della salute"</i> Titolo della tesi: <i>L'indagine statistica sulla componente volatile del pomodoro come strumento high-tech per la determinazione d'origine"</i></p>
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STAGES E TIROCINI

01/2012 - 06/2013	<p>Visiting Scientist - Prof. Janusz Pawliszyn's Research Group- Department of Chemistry - University of Waterloo (Waterloo, Ontario, Canada) Progetto di ricerca: Investigation of displacement effects for solid SPME coatings</p>
05/2008 – 09/2008	<p>Internship at LaMSAFP (Laboratory of Mass Spectrometry Applied to Food and Proteomics) – Dipartimento di Chimica - Università della Calabria</p> <ul style="list-style-type: none"> ○ <i>Attività principale e responsabilità:</i> Sviluppo di un metodo analitico per la determinazione dell'origine di pomodori mediante SPME-GC-MS, analisi del profilo volatile ed elaborazione dei dati con metodi statistici.

SCUOLE E CORSI DI FORMAZIONE

08/2018	ACS New Faculty Workshop – In collaboration with the Cottrell Scholars Collaborative
03/2018	UToledo Scholar Institute Program
11/2015	<p>Teaching Development Seminars Series, Centre for Teaching Excellence, University of Waterloo.</p> <p>Il corso si è svolto sui seguenti argomenti:</p> <ul style="list-style-type: none"> ➤ CTE501-How Students Learn ➤ CTE504-Interactive Teaching ➤ CTE196-Teaching Philosophy Statements ➤ CTE503-Assessments & Rubrics ➤ CTE502-Motivating Students ➤ CTE505-Introduction to Course Design
06/2013	Canadian English Language Proficiency Index Program-CELP- Paragon Testing Enterprises Inc-University of British Columbia, Canada.
29-30/05/2012	SPME course: theory and practice, University of Waterloo, Ontario, Canada
02 - 06/05/2011	2° Course of Mass Spectrometry in Clinical Chemistry Azienda Ospedaliera Universitaria Meyer, Università' di Firenze, Italia

ATTIVITÀ DI DIDATTICA, DIDATTICA INTEGRATIVA E SERVIZIO AGLI STUDENTI

POSIZIONE ATTUALE

08/01/2018 ad oggi	Assistant Professor – Department of Chemistry and Biochemistry, The University of Toledo (Toledo, Ohio, USA)
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ATTIVITÀ DI INSEGNAMENTO UNIVERSITARIO

Autunno 2020 e 2021	Titolare del corso CHEM 3310 " <i>Analytical Chemistry</i> ", University of Toledo, Department of Chemistry and Biochemistry.
Autunno 2019 e 2018	Titolare del corso CHEM 4300/6300/8300 " <i>Advanced Analytical Chemistry</i> ", University of Toledo, Department of Chemistry and Biochemistry.
Primav. 2021, 2019 e 2018	Titolare del corso CHEM 4310/6310/8310 " <i>Separation Methods</i> ", University of Toledo, Department of Chemistry and Biochemistry.
Autunno 2017	Docente temporaneo del corso CHEM 727: <i>Analytical Separations</i> , instructor: Prof J. Pawliszyn, University of Waterloo, Ontario, Canada Docente temporaneo del corso CHEM 323: <i>Analytical Instrumentation</i> , instructor Prof J. Pawliszyn, University of Waterloo, Ontario, Canada
Autunno 2016	Docente temporaneo del corso CHEM 420: <i>Analytical Separations</i> , instructor: Prof J. Pawliszyn, University of Waterloo, Ontario, Canada

ATTIVITÀ DI INSEGNAMENTO EXTRACURRICOLARE

Luglio 2016	Lecture presenter- " <i>SPME Method Development</i> " and " <i>SPME applications in food analysis</i> "- Solid Phase Microextraction (SPME) course: theory and practice, Collegium Medicum Nicolaus Copernicus University, Bydgoszcz, Polonia.
Marzo 2016	Lecture presenter- " <i>SPME Method Development</i> " and " <i>SPME applications in food analysis</i> "- Short course: Solid Phase Microextraction (SPME) and Other Sampling and Sample Preparation Technologies for Laboratory and On-site Applications, PittCon 2016- Georgia World Congress Center in Atlanta, Georgia, USA.
Febbraio 2014	Lecture presenter- " <i>SPME Method Development</i> " and " <i>SPME applications in food analysis</i> "- Short course: Solid Phase Microextraction (SPME) and Other Sampling and Sample Preparation Technologies for Laboratory and On-site Applications, PittCon 2014- McCormick Place in Chicago, Illinois, USA.
01-02/05 e 04-05/12/2014, 30/04-01/05 e 07-08/12/2015 28-29/04 e 24-25/11/2016	Lecture presenter- " <i>SPME Method Development</i> " and " <i>SPME applications in food analysis</i> "- SPME course: Theory and Applications of Solid Phase MicroExtraction, University of Waterloo, Waterloo, Ontario, Canada.

Settembre 2013	Lecture presenter- <i>"SPME Method Development and Applications in Food and Fragrance Analysis"</i> - SPME course- 14th ExTech-International Symposium on Extraction Technologies, Messina, Italia
02-03/05 e 29-30/11/2013	Lecture presenter- <i>"SPME Method Development"</i> - SPME course: Theory and Applications of SolidPhase MicroExtraction, University of Waterloo, Waterloo, Ontario, Canada

ATTIVITÀ DI SUPERVISIONE DI TESI DI DOTTORATI DI RICERCA E LAUREA SPECIALISTICA

11/2020 – ad oggi The University of Toledo	Noah Peterson, Titolo della tesi di laurea specialistica <i>"Evaluation of environmental contaminants adsorption on natural and anthropogenic binding agents"</i>
01/2020- ad oggi The University of Toledo	Aghogho Abigail Olomukoro, Ph.D. Titolo della tesi <i>"Characterization and distribution of poly- and per-fluorinated substances in the environment"</i>
05/2019 – 12/2019 The University of Toledo (trasferito) 11/2018 - ad oggi The University of Toledo	Ramin Tajali, Ph.D. Titolo della tesi <i>"Analysis of complex food matrices by Solid Phase Microextraction"</i> Ronnie V. Emmons, Ph.D. Titolo della tesi <i>"Applications of Solid-Phase Microextraction to Environmental monitoring"</i>
05/2018 - ad oggi The University of Toledo	Nipunika H. Godage, Ph.D. Titolo della tesi <i>"Distribution of xenobiotics in biological samples"</i>
01/2018 to 09/2018 The University of Toledo	Tharuka Ubayasena, Ph.D. Titolo della tesi <i>"Exploring the suitability of Thin-Film Micro extraction for multiresidue analysis in food"</i>

PARTECIPAZIONE A COMMISSIONI GIUDICATRICI NELL'AMBITO DI DOTTORATI DI RICERCA

<i>In qualità di membro di Commissione Esaminatrice per l'idoneità al Dottorato di Ricerca</i>	
Primavera 2020	Abiral Poudel, Supervisor: J. R. Kirchhoff
Primavera 2020	Sandhya Adhikari, Supervisor: J. R. Kirchhoff
Primavera 2020	Mollie Enright, Supervisor: M. Mason
Primavera 2020	Sabitri Lamichhane, Supervisor: D. Isailovic
Primavera 2020	Ronad V. Emmons
Primavera 2020	Nipunika H. Godage
Primavera 2019	Yahani Pankaja Jayasinghe Arachchige, Supervisor: Donald Ronning
Primavera 2018	David Baliu-Rodriguez, Supervisor: Dragan Isailovic

<i>In qualità di membro di Commissione Esaminatrice per il conferimento di Dottorato di Ricerca Primavera 2018</i>	Krishani Kumari Rajanayake, Supervisor: Dragan Isailovic
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SUPERVISIONE IN PROGETTI DI RICERCA

01/2016 – 08/2017 Univ. of Waterloo	Supervisore di Dominika Gruszecka; <i>“Determination of acetone levels in blood from epileptic patients under ketogenic diet ”</i>
06/2016 and 09/2016 University of Waterloo	Supervisore di Mario Mirabelli, dalla ETH Zurich (Svizzera); <i>“Direct coupling of SPME and DBDI/MS for environmental, food and bioclinical analysis ”</i> (Analyst 144 (8), 2788-2796, Analyst 143 (4), 891-899)
09/2016 – 08/2017 University of Waterloo	Supervisore di Li Zhang; <i>“Multiclass and multiresidue determination of contaminants in seaweed by means of a matrix compatible SPME coating ”</i> (Analytica chimica acta 1031, 83-97)
09/2014 - 03/2015 University of Waterloo	Supervisore di Alice Passarini, dalla Università di Bologna (Italia); <i>“A facile and fully automated on-fiber derivatization protocol for direct analysis of short-chain aliphatic amines using a matrix compatible Solid Phase Microextraction coating”</i> (J.of Chromatography A 06/2016; 1457)
04/2014 - 03/2015 Univ. of Waterloo	Supervisore di Xiujuan Li, dalla Huazhong Agricultural University (Cina); <i>“Direct immersion SPME in soymilk for pesticide analysis”</i> (manuscript in preparation)
02/2014 - 12/2014 University of Waterloo	Supervisore di Selenia De Grazia, dall’ Università di Messina (Italia); <i>“Fully optimized direct Solid Phase Microextraction approach for high fat content food samples using matrix compatible coatings”</i> (Talanta 167, 754-760).

SUPERVISIONE DI PROGETTI DI RICERCA PER LAUREA TRIENNALE

Autunno 2020-ad oggi	Tue Chen (Chem Eng Undergraduate Research Volunteer)
Primav. 2020- Aut. 2020	Jayla Gardner (Undergraduate Research Volunteer)
Autunno 2019	Matthew R. Stojavljevic (Undergraduate Research I, CHEM 4910)
Aut. 2019-Primav. 2020	Kayla M. Billiard (Undergraduate Research I Honors, CHEM 4910)
Primavera 2019	Kaythlin Craft (Chemistry readings, CHEM 4910)
Primavera 2018	Mohammad Cetiner (Undergraduate Research I Honors, CHEM 4910)

SUPERVISIONE DI STUDENTI DI SCAMBIO

04/2019 -07/2019	Giuseppe Gentile, Visiting Master Student, Università della Calabria, Italia
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SUPERVISIONE DI STUDENTI AMERICAN CHEMICAL SOCIETY PROJECT SEED (SUMMER EXPERIENCES FOR THE ECONOMICALLY DISADVANTAGED)

Estate 2019	Isaac Kim (Emmanuel High School, Toledo)
Estate 2018	Elijah Long (Emmanuel High School, Toledo)

SUPERVISIONE DI STUDENTI IN TIROCINIO

Primavera 2020	Amanda Dershem (Sienna Heights University)
Estate 2019	Jayla Gardner

IMPEGNO IN ATTIVITÀ ISTITUZIONALI E LOCALI

2020 - ad oggi	Membro del Consiglio sulle tematiche ambientali del procuratore generale dell'Ohio , Ohio Attorney General Office, Columbus, OH, USA
2020 - ad oggi	Membro del comitato esecutivo della Divisione di Chimical Analitica, sottodivisione di cromatografia e scienze della separazione, Societa' Chimica Americana
2020 - ad oggi	Comitato organizzatore del 45th International Symposium on Capillary Chromatography & the 18th GCxGC Symposium , Maggio 9-14 2021, Forth Worth, Texas, USA
2020 - ad oggi	Membro della University of Toledo Water Taskforce
2019 - ad oggi	Membro Fondatore del Dr. Nina McClelland Laboratory for Water Chemistry and Environmental Analysis , The University of Toledo, OH, USA
2019 - ad oggi	Coordinatore Istituzionale del ACS Project SEED
2018	Comitato organizzatore del 20th International Symposium on Advances in Extraction Technologies (ExTech) , June 19 – 22, 2018, Iowa State University

ATTIVITÀ DI RICERCA E PUBBLICAZIONI SCIENTIFICHE

RESPONSABILITÀ E PARTECIPAZIONE AD ATTIVITÀ DI PROGETTI DI RICERCA FINANZIATI

Responsabile esecutivo e gestionale dei seguenti progetti di ricerca

<i>Durata del finanziamento</i>	Fonte del finanziamento	Titolo del progetto
<i>2018</i>	University of Texas, El Paso	Development and validation of an SPME-GC-MS method for determination of fluasterone in rabbit plasma
<i>2019</i>	Research Award and Fellowship Program, The University of Toledo	Development of Alternative Microextractive Sampling Strategies to Capture Elusive Plant Emissions Linked to Chemical Signaling Mechanisms in Response to Insect Attack
<i>2019-2021</i>	Sponsored Research Agreement, Supelco Inc.	Development of analytical methods for complex matrices using matrix-compatible SPME fibers
<i>2019-2020</i>	Restek Corporation	Restek Academic Support Program
<i>2020-2022</i>	Ohio Sea Grant	On-site and in laboratory quantitative analysis of pharmaceuticals and PFAS in environmental samples by solid-phase microextraction

PARTECIPAZIONE A GRUPPI DI RICERCA NAZIONALI O INTERNAZIONALI

1/02/2017-15/11/2017	Research Associate and Industrially Focused Analytical Research Laboratory (InFAReL) Lab Manager (GC-Section) - Prof. Janusz Pawliszyn's Research Group - Department of Chemistry, University of Waterloo (Waterloo, Ontario, Canada)
1/02/2014-31/01/2017	Post-Doctoral Fellow and Industrially Focused Analytical Research Laboratory (InFAReL) Lab Manager (GC-Section) - Prof. Janusz Pawliszyn's Research Group- Department of Chemistry, University of Waterloo (Waterloo, Ontario, Canada)

PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE

2018-2019	Guest Editor, Edizione Speciale di Separations, MDPI (, "Development of Alternative Green Sample Preparation Techniques"
2020- ad oggi	Editore, Green approaches for Chemical Analysis, Elsevier
2020	Guest Editor, Edizione Speciale di Frontiers in Chemistry, Sezione Green and Sustainable Chemistry section " Green Sample Preparation Procedures"
2021-ad oggi	Editorial Advisory Board of Green Analytical Chemistry, Elsevier
2021- ad oggi	Editorial Advisory Board of Advances in Sample Preparation, Elsevier

CONSEGUIMENTO DI PREMI E RICONOSCIMENTI INTERNAZIONALI PER ATTIVITÀ DI RICERCA

26/07/2018	UTC Excellence in Sample Prep Award , North American Chemical Residue Workshop- NACRW
22/06/2018	Young Author Price - ExTech2018 -International Symposium on Advances in Extraction Technologies
30/06/2017	Best Poster Award – ExTech 2017 - conferito dalla Royal Society of Chemistry, Separation Science division
06/07/2016	Best Poster Award – ExTech 2016 - conferito dalla Royal Society of Chemistry, Separation Science division

PARTECIPAZIONE IN QUALITÀ DI RELATORE A CONGRESSI DI INTERESSE INTERNAZIONALE

Comunicazioni orali su invito

- **Emanuela Gionfriddo**, *"Solid-Phase Microextraction in environmental analysis: development of high-throughput analytical methods and new sampling devices for analysis of complex matrices"*, Department of Chemistry, Wayne State University, Oct 27th, 2020
- **Emanuela Gionfriddo**, *"Thin-film microextraction for water quality assessment and environmental monitoring"*, **Fourth North American SYFT-MS User Meeting**, Cincinnati, OH, USA (moved online due to COVID-19), July 22st, 2020
- **Emanuela Gionfriddo**, *"Principles of solid-phase microextraction and its use in food analysis"*, **Fourth North American SYFT-MS User Meeting**, Cincinnati, OH, USA (moved online due to COVID-19), July 21st, 2020

- **Emanuela Gionfriddo**, *"Food analysis by matrix-compatible SPME devices: a complex task made easy"*, PittCon 2020, Chicago, IL
- **Emanuela Gionfriddo**, *"Solid-Phase Microextraction in environmental analysis: development of high-throughput analytical methods and new sampling devices for analysis of complex matrices"*, Department of Environmental Sciences, The University of Toledo, February 5th, 2020
- **Emanuela Gionfriddo**, *"Novel Sample preparation methods for the analysis of biological samples in LC-MS/MS workflows"*. Perkin Elmer- Miami Automation and Mass Spectrometry Seminar. Miami, FL, USA. April 18, 2019.
- **Emanuela Gionfriddo**, *"Solid-Phase Microextraction in food, environmental and bio-analysis: development of high-throughput analytical methods and new sampling devices for analysis of complex matrices"*. Department of Chemical Engineering, The University of Toledo. February 21, 2019
- **Emanuela Gionfriddo**, *"Novel Sample preparation methods for the analysis of biological samples in LC-MS/MS workflows"*. Recent Innovations in Mass Spectrometry Instrumentation: Automation in Forensic Toxicology and Clinical Applications, by Perkin Elmer. Boston University School of Medicine, Boston, MA, USA. February 7, 2019.
- **Emanuela Gionfriddo**, *"Thin Film Microextraction: an alternative geometry of solid-phase microextraction enabling faster and sensitive analysis of volatiles and semivolatiles"*. 4th Annual Flavor, Fragrance and Mal Odor Analytical Seminar, by GERSTEL Inc. and Agilent. Procter & Gamble Ivorydale Technical Center Cincinnati, OH, USA. November 7, 2018
- **Emanuela Gionfriddo**, *"Solid-Phase Microextraction in food, environmental and bio-analysis: development of high-throughput analytical methods and new sampling devices for analysis of complex matrices"*. Department of Chemistry University of Detroit Mercy. November 3rd, 2018, 2019
- **Zhang, Li, Emanuela Gionfriddo, Vinicius Acquaro, and Janusz Pawliszyn**. *"Direct Immersion Solid-Phase Microextraction Analysis of Multi-Class Contaminants in Edible Seaweeds by Gas Chromatography-Mass Spectrometry."* 20th International Symposium on Advances in Extraction Technologies, 19-22 June 2018, Ames, Iowa, USA.
- **Emanuela Gionfriddo** *"Analysis of food samples via DART-MS"*, Workshop: Applications of Solid Phase Microextraction in Mass Spectrometry, American Society of mass Spectrometry Annual conference, June 6th 2018, San Diego, California, USA.
- **Emanuela Gionfriddo** *"SolidPhase Microextraction for Analysis of Pesticides and veterinary drugs in food"*, 18th Annual Perkin Elmer Midwest Technical Center Open House, May 3rd 2018, Downers Grove, IL, USA.
- **Emanuela Gionfriddo**, *"Solid-Phase Microextraction in food, environmental and bio-analysis: development of high-throughput analytical methods and new sampling devices for analysis of complex matrices"*. Department of Medicinal Chemistry, The University of Toledo. March 17th, 2019
- **Emanuela Gionfriddo** *"Analysis of complex food matrices made easy: SPME strategies for targeted and untargeted analysis"*, Sips and Chromatographic Tips, September 21st 2017, Schaumburg, IL, USA, organized by Agilent Technologies and GERSTEL Inc.
- **Emanuela Gionfriddo, German A. Gomez-Rios, Justen Poole, Janusz Pawliszyn**, *"Solid phase microextraction-transmission mode and direct analysis in real time: an efficient tool for fast analysis of contaminants in complex samples"*, International Mass Spectrometry Conference 2016, 20-26 August, 2016, Toronto, Ontario, Canada

Comunicazioni orali

- **Zhang, Li, Emanuela Gionfriddo, Vinicius Acquaro, and Janusz Pawliszyn.** *"Direct Immersion Solid-Phase Microextraction Analysis of Multi-Class Contaminants in Edible Seaweeds by Gas Chromatography-Mass Spectrometry."* 20th International Symposium on Advances in Extraction Technologies 19-22 June 2018, Ames, Iowa, USA.
- **Emanuela Gionfriddo, Hamed Piri-Moghadam, Jonathan J Grandy, Angel Rodriguez-Lafuente, Heather L. Lord, Terry Obal, Janusz Pawliszyn,** *"Inter-laboratory validation of thin film microextraction technique for determination of pesticides in environmental water samples",* 19th International Symposium on Advances in Extraction Technologies 27-30 June 2017, Santiago de Compostela, Spain
- **German Augusto Gómez-Ríos, Nathaly Reyes-Garcés, Ezel Boyaci, Emanuela Gionfriddo, Justen Poole, Barbara Bojko and J Pawliszyn,** *"Fast quantitation of target analytes in complex matrices by solid phase microextraction-mass spectrometry (SPME-MS): recent developments and applications,* International Mass Spectrometry Conference 2016, 20-26 August, 2016, Toronto, Ontario, Canada.
- **Mario Francesco Mirabelli, Emanuela Gionfriddo, Janusz Pawliszyn, Renato Zenobi,** *"Direct SPME-ambient MS couplings: towards the non-chromatographic era",* International Mass Spectrometry Conference 2016, 20-26 August, 2016, Toronto, Ontario, Canada.
- **Mario Francesco Mirabelli, Emanuela Gionfriddo, Janusz Pawliszyn, Renato Zenobi,** *"Successful Direct SPME-DBDI Coupling for Rapid, Ultrasensitive and Non-Chromatographic Analysis of Pesticides and Illicit Drugs in Complex Matrices",* ASMS 2016, 5-9 June, 2016, San Antonio, Texas, USA
- **Emanuela Gionfriddo; German A. Gomez-Rios; Justen Poole; Janusz Pawliszyn,** *"Ultrafast Quantitative Analysis of Pesticides in Food and Environmental Matrices by SPME Transmission Mode and Direct Analysis in Real Time",* ASMS 2016, 5-9 June, 2016, San Antonio, Texas, USA
- **Erica A. Souza-Silva, Emanuela Gionfriddo, Janusz Pawliszyn,** *"Understanding the effect of the PDMS-layer on the kinetics and thermodynamics of analytes sorption onto the matrix-compatible coating",* 40th ISCC and 13th GCxGC Symposium May 29 – June 03, 2016 Riva del Garda, Italy
- **Emanuela Gionfriddo, Ezel Boyaci, Janusz Pawliszyn,** *"New Generation of Solid SPME Coatings for Complementary Gas- and Liquid- Phase Separation: A Step Toward Integration of Metabolomics Platforms",* PittCon 2016- Georgia World Congress Center in Atlanta, Georgia, USA.
- **Erica A. Souza-Silva, Emanuela Gionfriddo, Nathaly Reyes-Garces, German A Gomez-Rios, Jared L Anderson, Janusz Pawliszyn,** *"Exploiting Polymeric Ionic Liquids-Based SPME Sorbents Coupled to Gas-Chromatography/Mass Spectrometry for Food Quality and Safety",* PittCon 2016- Georgia World Congress Center in Atlanta, Georgia, USA.
- **Justen J Poole, Jonathan J Grandy, German A Gomez-Rios, Emanuela Gionfriddo, Janusz Pawliszyn** *"SPME On-Fiber Derivatization Using a Stable and Reusable Pentafluorophenyl Hydrazine Standard Gas Generating Vial",* PittCon 2016- Georgia World Congress Center in Atlanta, Georgia, USA.
- **Emanuela Gionfriddo, Erica A. Souza-Silva, Janusz Pawliszyn,** *"Headspace Versus Direct Immersion Solid Phase Microextraction (SPME): Investigation of Inter-Analyte Displacement Phenomena and Consideration for Food Matrices",* PittCon 2014- McCormick Place in Chicago, Illinois, USA
- **Emanuela Gionfriddo, Erica A. Souza-Silva, Janusz Pawliszyn,** *"Investigating Selective Displacement Phenomena in SPME Solid Coatings",* PittCon 2014- McCormick Place in Chicago, Illinois, USA
- **Attilio Naccarato, Emanuela Gionfriddo, Giovanni Sindona, Antonio Tagarelli,** *"Development of an experimental design optimized SPME-GC-MS/MS analytical protocol for the analysis of dopamine for the analysis of dopamine, serotonin and norepinephrine in human urine ".* Contribution to "Convegno Congiunto delle Sezioni Calabria e Sicilia", Catania, Italy, 2-3 December, 2013.

Comunicazioni poster

- **Ronald V. Emmons, Amila M. Devasurendra, Nipunika H. Godage, and Emanuela Gionfriddo.** *"Exploring the Efficiency of Various Extraction Approaches for Determination of Crude (4-methylcyclohexyl)methanol (MCHM) Constituents in Environmental Samples."* International Symposium on Capillary Chromatography and the GCxGC Symposium- ISCC & GCxGC 2019, Forth Worth, Texas, USA, Maggio 2019.
- **Ronald V. Emmons, Amila M. Devasurendra, Nipunika H. Godage, and Emanuela Gionfriddo.** *"Exploring the Efficiency of Various Extraction Approaches for Determination of Crude (4-methylcyclohexyl)methanol (MCHM) Constituents in Environmental Samples."* North American Chemical Residue Workshop- NACRW 2019, Naples, Florida, USA, Luglio 2019.
- **Zhang, Li, Emanuela Gionfriddo, Vinicius Acquaro, and Janusz Pawliszyn.** *"Direct Immersion Solid-Phase Microextraction Analysis of Multi-Class Contaminants in Edible Seaweeds by Gas Chromatography-Mass Spectrometry."* North American Chemical Residue Workshop- NACRW 2018, Naples, Florida, USA. Luglio 2019
- **Tharuka Ubayasena, Amila M. Devasurendra, Nipunika H. Godage, Jon Kirchhoff And Emanuela Gionfriddo.** *"Determination of crude (4-methylcyclohexyl)methanol (MCHM) constituents in environmental samples by solid-phase microextraction"* 20th International Symposium on Advances in Extraction Technologies 19-22 Giugno 2018, Ames, Yowa, USA
- **Emanuela Gionfriddo, Fatemeh Mousavi, Eduardo Carasek, Erica A. Souza-Silva, Janusz Pawliszyn,** *"Coupling solid phase microextraction to complementary separation platforms for metabotyping of E. coli metabolome in response to natural antibacterial agents"*, 19th International Symposium on Advances in Extraction Technologies 27-30 giugno 2017, Santiago de Compostela, Spagna
- **** Emanuela Gionfriddo, Erica A. Souza-Silva, Selenia De Grazia, Xiujiang Li and Janusz Pawliszyn,** *"Direct Immersion SPME in complex food matrices by means of a new matrix-compatible coating"*, 18th International Symposium on Advances in Extraction Technologies & 12nd International Symposium on Separation Sciences, 3-6 Luglio ,2016, Torun, Polonia
- **Emanuela Gionfriddo, Ezel Boyaci, Janusz Pawliszyn** *"New fluoropolymer-based SPME coatings for complementary gas- and liquid- phase separation"*, 18th International Symposium on Advances in Extraction Technologies & 12nd International Symposium on Separation Sciences, 3-6 July, 2016, Torun, Polonia
- **Erica A. Souza-Silva, Emanuela Gionfriddo, Janusz Pawliszyn,** *"Evaluation of matrix-compatible spme coating and its application to GC-based food analysis"*, 40th ISCC and 13th GCxGC Symposium 29 Giugno – 03 Giugno, 2016 Riva del Garda, Italia
- **Erica A. Souza-Silva, Emanuela Gionfriddo, Janusz Pawliszyn** *"Insights into the Effect of the PDMS-layer on the Kinetics and Thermodynamics of Analytes Sorption onto the PDMS-overcoated Coating"*, PittCon 2016- Georgia World Congress Center in Atlanta, Georgia, USA
- **Erica A. Souza-Silva, Sanja Risticvic, Emanuela Gionfriddo, Jennifer DeEll, Janusz Pawliszyn,** *"Solid-phase Microextraction (SPME) in Food Analysis"*. Contribution to 11th Annual Food Safety Research Forum, Gueph, Ontario, 9 Maggio 2013.
- **Emanuela Gionfriddo, Sanja Risticvic, Janusz Pawliszyn,** *"Headspace versus Direct SPME for solid coatings"*. Contribution to "ExTech-14th International Symposium on Advances in Extraction Technologies", Messina, Settembre 2012, pp. 163
- **Emanuela Gionfriddo, Attilio Naccarato, Giovanni Sindona, Antonio Tagarelli,** *"Urinary acylcarnitines determination by gas-chromatography tandem mass spectrometry coupled with Solid-Phase Microextraction (SPME-GC-MS/MS)"* Atti del convegno "XXIII Congresso della Divisione di Chimica Analitica della Società Chimica Italiana", Isola d'Elba, 16-20 Settembre 2012, pp. 228;

- **Emanuela Gionfriddo, Attilio Naccarato, Giovanni Sindona, Antonio Tagarelli**, *"Sviluppo di un metodo SPME-GC-MS/MS, ottimizzato mediante experimental design per la determinazione dell'idrazina nelle acque destinate al consumo umano"* Atti del convegno "Convegno Congiunto delle Sezioni Calabria e Sicilia", Messina, 1-2 Dicembre, 2011, p 19;
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** Questa comunicazione poster e' stata premiata con il "Best Poster Award" conferito dalla Royal Society of Chemistry, Separation Science Section.

WEBINARS

- **"Biocompatible Solid-Phase Microextraction and Laminar Flow Tandem Mass Spectrometry"**. Perkin Elmer- Medical LC-MS/MS seminar at UToledo, December 2nd, 2020.
- **"Thin-film microextraction for water quality assessment and environmental monitoring"** - Fourth North American SIFT-MS User Meeting, July 21 2020
- **"Principles of solid-phase microextraction and its use in food analysis"** - Fourth North American SIFT-MS User Meeting, July 20, 2020
- **"Biocompatible Solid-Phase Microextraction and Laminar Flow Tandem Mass Spectrometry: A convenient solution for quantitative analysis of biofluids"** - Perkin Elmer Webinar Series, June 10th 2020
- **"Food analysis by matrix-compatible SPME devices: a complex task made easy"**. Hosted by LCGC North America and Millipore Sigma through Chromatography online Webinar Series, April 2020
- **"New Solid Phase Microextraction (SPME) devices for food and environmental analysis"**, April 20th 2017, Organized by GERSTEL Inc.
- **"Basic Principles of Solid Phase Microextraction (SPME) Method Development"**, May 31st 2017, Organized by Millipore Sigma.
- **"SPME vs. Thermal Desorption: Top 10 Questions Answered"**, September 15th 2017, Organized by GERSTEL Inc. "SPME Applications in Food Analysis by means of a New Matrix Compatible Coating", Dec 7th 2017, organized by Millipore Sigma.

PUBBLICAZIONI SCIENTIFICHE IN RIVISTE NAZIONALI ED INTERNAZIONALI

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2. **Ronald V Emmons, Emanuela Gionfriddo***: *"Minimizing transient microenvironment-associated variability for analysis of environmental anthropogenic contaminants via ambient ionization"*, *Science of The Total Environment*, 755(2021) 145789

3. **Dominika Gruszecka, Jonathan Grandy, Emanuela Gionfriddo, Varoon Singh, Janusz Pawliszyn:** *"Direct immersion thin film solid phase microextraction of polychlorinated n-alkanes in cod liver oil"*, *Food Chemistry* (2021), 129244
4. **Emanuela Gionfriddo***, **German Augusto Gómez-Ríos:** *"Analysis of food samples made easy by microextraction technologies directly coupled to mass spectrometry"*: *Journal of Mass Spectrometry* 2021;56:e4665.
5. **Nipunika H Godage, Emanuela Gionfriddo*:** *"Use of natural sorbents as alternative and green extractive materials: A Critical Review"*, *Analytica Chimica Acta*, 1125, 187-200
6. **Ronald V Emmons, Tiffany Liden, Kevin A Schug, Emanuela Gionfriddo*:** *"Optimization of thin film solid phase microextraction and data deconvolution methods for accurate characterization of organic compounds in produced water"*, *Journal of Separation Science*, 2020
7. **Emanuela Gionfriddo*** (Editorial): *Development of Alternative Green Sample Preparation Techniques*, *Separations* 7 (2), 31
8. **Emanuela Gionfriddo, Dominika Gruszecka, Xiujuan Li, Janusz Pawliszyn:** *"Direct-immersion SPME in soy milk for pesticide analysis at trace levels by means of a matrix-compatible coating"*, *Talanta*, 2020, 211, 120746
9. **Sanja Risticvic, Erica A Souza-Silva, Emanuela Gionfriddo, Jennifer R DeEll, Jack Cochran, W Scott Hopkins, Janusz Pawliszyn:** *"Application of in vivo solid phase microextraction (SPME) in capturing metabolome of apple (Malus domestica Borkh.) fruit"*, *Scientific reports* 10 (1), 1-11
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11. **Nipunika H Godage, Erasmus Cudjoe, Rabin Neupane, Sai HS Boddu, Pradeep Kumar Bolla, Jwala Renukuntla, Emanuela Gionfriddo*:** *Biocompatible SPME fibers for direct monitoring of nicotine and its metabolites at ultra-trace concentration in rabbit plasma following the application of smoking cessation formulations*, *Journal of Chromatography A*, 2020, 461333
12. **Kasun Ratnayake, John L Payton, Mitchell E Meger, Nipunika H Godage, Krishani K Rajanayake, Dragan Isailovic, Emanuela Gionfriddo, Ajith Karunarathne:** *Blue light-triggered photochemistry and cytotoxicity of retinal*, *Cellular Signalling* 69, 109547
13. **Ronald V. Emmons, Ramin Tajali, Emanuela Gionfriddo*:** *Development, Optimization and Applications of Thin Film Solid Phase Microextraction (TF-SPME) Devices for Thermal Desorption: A Comprehensive Review*. 08/2019; 6(3):39., DOI:10.3390/separations6030039
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CONOSCENZA LINGUA INGLESE

Certificato CELPIP del 9 maggio 2015, Testing enterprise Paragon – University of British Columbia

Data

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