



# Carmela Maria Montone

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## ● PRESENTAZIONE

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Scopus Author ID: 57194015456 ORCID: <https://orcid.org/0000-0002-2953-5696>

## ● ESPERIENZA LAVORATIVA

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01/11/2019 – ATTUALE Roma, Italia

**ASSEGNISTA DI RICERCA DI CATEGORIA B (SETTORE SCIENTIFICO DISCIPLINARE CHIM/01).**

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1/11/2023-31/10/2024 ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA" presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, **Titolo progetto:** *Novel materials for selective extraction of peptides with post-translational modifications* **Finanziato da fondi di Ricerca di Ateneo, Università La Sapienza**

1/11/2022- 31/10/2023 ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA" presso il Dipartimento di Medicina Molecolare, Facoltà di Scienze Matematiche, Fisiche e Naturali, **Titolo progetto** AIRC: *"Nanotechnology-based rapid in vitro diagnostic test for pancreatic cancer"*; **Finanziato da fondi AIRC\_ID.24521**

1/11/2021-31/10/2022 ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA" presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, **Titolo del progetto:** *"Cutting Edge Analytical Chemistry Methodologies and Bio-Tools Diseases to Boost Precision Medicine in Hormone-Related"*, **Finanziato nell'ambito di Progetti di ricerca di Rilevante Interesse Nazionale PRIN 2017 gestito dal Ministero dell'Università e della Ricerca.**

01/11/2019 – 31/10/2021 ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA" presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, **Titolo del progetto:** *ORIGAMI (BiORaffineria InteGratA per la produzione di biodiesel da Microalghe)* (Settore Scientifico Disciplinare CHIM/01). **Finanziato nell'ambito del Programma Operativo Nazionale Ricerca e Innovazione 2014 – 2020, gestito dal Ministero dell'Università e della Ricerca.**

## ● ISTRUZIONE E FORMAZIONE

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18/12/2019 Roma, Italia

**DOTTORATO DI RICERCA IN SCIENZE CHIMICHE** Università degli Studi di Roma "La Sapienza"

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Tesi: *"Identificazione di composti bioattivi in matrici agroalimentari e prodotti di scarto"*

**Voto finale** OTTIMO con lode

04/11/2018 – 04/05/2019 Malmö, Svezia

**VISITING STUDENT** University of Malmö (Svezia), Biofilms Research Center for Biointerfaces del Prof. Börje Sellergre

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Titolo del progetto: *Development of molecular imprinted polymers selective for the enrichment of sulfopeptides in biological samples*

**Indirizzo** Malmö (Svezia), Malmö, Svezia

2016

**ABILITAZIONE ALLA PROFESSIONE DI CHIMICO** Università degli Studi di Roma "La Sapienza"

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15/09/2016 Roma, Italia

**LAUREA MAGISTRALE IN CHIMICA ANALITICA LM-54 - SCIENZE CHIMICHE** Università degli Studi di Roma "La Sapienza"

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Tesi: "Stress ossidativo nei neonati pretermine: una nuova metodologia analitica per lo screening e il dosaggio di antiossidanti liposolubili in matrici biologiche non convenzionali". Relatore: Prof.ssa A. Gentili

**Voto finale** 110/110 e lode

28/10/2014 Salerno, Italia

**LAUREA TRIENNALE IN CHIMICA L-27 - SCIENZE E TECNOLOGIE CHIMICHE** Università degli Studi di Salerno

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Tesi: "Valutazione del contenuto in oli per e-cig" Relatore Prof. T. Caruso

06/2010

**DIPLOMA DI MATURITÀ SCIENTIFICA** Liceo Scientifico Enrico Medi, Battipaglia (SA)

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## ● **COMPETENZE LINGUISTICHE**

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Lingua madre: **ITALIANO**

Altre lingue:

	COMPRESIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale	Interazione orale	
<b>INGLESE</b>	B2	B2	B1	B1	B2

*Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato*

## ● **COMPETENZE DIGITALI**

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Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | Posta elettronica | Utilizzo del browser

## ● **ABILITAZIONE SCIENTIFICA NAZIONALE**

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**Settore Concorsuale 03/A1 - Professore di II Fascia - Dal 31/01/2022 al 31/01/2031**

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## ● **COMPETENZE PROFESSIONALI**

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2017 – ATTUALE

### **Attività scientifiche di ricerca**

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risultati dell'attività scientifica della Dott.ssa Montone hanno prodotto 79 pubblicazioni su riviste scientifiche internazionali, 3 capitoli di libro, 3 brevetti, 18 comunicazioni orali e 33 poster a congressi nazionali ed internazionali.

Le tematiche delle ricerche svolte hanno come oggetto lo sviluppo e la validazione di metodi analitici innovativi basati sulla cromatografia liquida accoppiata alla spettrometria di massa tandem a bassa ed alta risoluzione per la determinazione multianalitica di sostanze naturali e di origine antropica in matrici di tipo ambientale, alimentare, vegetale e biologico.

L'attività scientifica può essere suddivisa in cinque principali linee di ricerca: proteomica e peptidomica (A), peptidomica di peptidi a catena corta (B), lipidomica (C), metabolomica (D) e analisi di piccole molecole in campo alimentare, ambientale e biologico (E).

### **LABORATORY SPECIALIST**

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1. Sviluppo, validazione ed applicazione di metodi multiresiduali in spettrometria di massa (LC-MS/MS)
2. Validazione di metodi LC-MS/MS in base alle linee guida FDA
3. Sviluppo di workflow analitici in Metabolomica, Proteomica e Peptidomica
4. Manutenzione strumenti Thermo Fisher (ultimate 3000-UHPLC, Vanquish-UHPLC, Q-Exactive, TSQVantage,Orbitrap-ELITE)

## ● AFFILIAZIONE A SOCIETÀ

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2016 – ATTUALE

**Membro della Società Chimica Italiana per la Divisione di Chimica Analitica e il Gruppo Interdivisionale di Scienza delle Separazioni.**

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**Numero di tessera: 21029**

## ● PROGETTI DI RICERCA FINANZIATI

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### Progetti di ricerca finanziati (responsabile scientifico)

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**"Progetti per Avvio alla Ricerca - Tipo 2" anno 2023** " Human Biomolecular Corona of Onyvide pegylated liposomal: the Overlooked Factor in Anticancer Drug Delivery. " Università degli Studi di Roma "La Sapienza",- numero protocollo AR2231889A0A6491, finanziamento: Euro 2100

**"Progetti per Avvio alla Ricerca - Tipo 2" anno 2022** "Short-chain food bioactive peptides with multifunctional properties for prevention and treatment of the metabolic syndrome " Università degli Studi di Roma "La Sapienza",- numero protocollo AR2221811F3534E6, finanziamento: Euro 2400

**"Progetto per Avvio alla Ricerca - Tipo 2" anno 2021,** "Sviluppo di nuovi materiali per la purificazione e l' estrazione di analiti in tracce in matrici complesse, al fine di promuovere la salute e la sicurezza alimentare", Università degli Studi di Roma "La Sapienza", numero protocollo: AR22117A863DDEF5, finanziamento: Euro 2.200

**"Progetto per Avvio alla Ricerca - Tipo 1" anno 2018,** "Characterization of polar lipids in Spirulina Microalgae: lipidomic approaches for identification of new potential bioactive lipids", Università degli Studi di Roma "LaSapienza", numero protocollo: AR11816435BF9553, finanziamento: Euro 1.190

**"Progetto per Avvio alla Ricerca - Tipo 1" anno 2017,** : "Estrazione magnetica di micotossine da diverse tipologie di farina" Università degli Studi di Roma "La Sapienza", numero protocollo: AR11715C78D45B81, finanziamento: Euro 1.300

## ● EDITORIAL BOARDS E GUEST EDITORS

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### Editorial board (Environmental Analysis)

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2023-oggi- **Associate Editor**- sezione di Frontiers in Analytical Science (<https://www.frontiersin.org/journals/analytical-science/sections/environmental-analysis#editorial-board>)

### Editorial Board (La Chimica & L'Industria)

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2022- oggi Comitato editoriale della rivista: La Chimica & L'Industria-rivista ufficiale della Società Chimica Italiana (SCI)  
La Chimica e l'Industria online ISSN 2283-544X  
La Chimica e l'Industria Newsletter ISSN 2532-182X  
La Chimica e l'Industria (cartacea) ISSN 0009-4315

### Guest Editor

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2022-2023 Guest Editor della rivista **Toxins** per lo Special Issue  
"Detection, Control and Contamination of Mycotoxins Volume II (ISSN 2072-6651) Impact Factor: 5.075  
([https://www.mdpi.com/journal/toxins/special\\_issues/S5V66FVP00](https://www.mdpi.com/journal/toxins/special_issues/S5V66FVP00))

### Guest Editor

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2021-2022 Guest Editor della rivista **Toxins** per lo Special Issue  
"Detection, Control and Contamination of Mycotoxins" (ISSN 2072-6651) Impact Factor: 4.546 ([https://www.mdpi.com/journal/toxins/special\\_issues/detection\\_mycotoxins](https://www.mdpi.com/journal/toxins/special_issues/detection_mycotoxins)).

### Editorial Board

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2021-oggi Membro del Board in **Advances in Pharmaceutical Sciences**  
(<https://mediterraneanjournals.com/index.php/aps/about/editorialTeam>)

### Reviewer board (Environmental Analysis)

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## 2021-oggi **Membro del Board di Environmental Analysis**

sezione di Frontiers in Analytical Science (<https://www.frontiersin.org/journals/analytical-science/sections/environmental-analysis#editorial-board>)

## **Assistant Guest Editor**

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2020-2021: Assistant Guest Editor della rivista **Molecules** per lo Special Issue "Advancements in Analytical Techniques for Proteomics" (ISSN 1420-3049) Impact Factor: 4.412 ([https://www.mdpi.com/journal/molecules/special\\_issues/analy\\_proteomics](https://www.mdpi.com/journal/molecules/special_issues/analy_proteomics))

## **Reviewer board (Antioxidants)**

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2020-oggi Membro dell 'Reviewer board di **Antioxidants**.  
Impact Factor: 6.313 ([https://www.mdpi.com/journal/antioxidants/submission\\_reviewers](https://www.mdpi.com/journal/antioxidants/submission_reviewers))

## ● **PREMIO PRIMO LEVI**

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### **Lancio e commissione giudicatrice Bando LEVI-anno 2021-2022-2023**

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Il Consiglio Direttivo dello SCI Giovani lancia ogni anno per il triennio in carica l' edizione del Premio Primo Levi , da assegnare a un giovane socio SCI autore di una ricerca svolta in Italia, originale e di ampio interesse per le Scienze Chimiche, pubblicata su una rivista scientifica internazionale nella sua versione finale l'anno precedente l'uscita del bando.

## ● **ATTIVITÀ DI REFERAGGIO PER RIVISTE SCIENTIFICHE INTERNAZIONALI**

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### **Attività di referaggio per riviste scientifiche internazionali**

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Analytica Chimica Acta (2023-oggi)  
Food and Humanity (2023-oggi)  
Journal of Food composition and analysis (2023-oggi)  
Scientific Reports (2023-oggi)  
Frontiers in Analytical Science section omics (2022-oggi)  
Environmental Pollution (2022-oggi)  
Journal of Chromatography A (2022-oggi)  
Analytical and Bioanalytical Chemistry-ABC (2022-oggi)  
International Journal of Molecular Sciences (2022-oggi)  
Food Bioscience (2022-oggi)  
Talanta (2021-oggi)  
Journal of Mass Spectrometry (2021)  
Antibiotics (MDPI) (2021)  
Journal of Essential Oil Research (2020)  
Journal of Fungi (MDPI) (2020)  
Membranes (MDPI) (2020)  
Plants (MDPI) (2020)  
Processes (MDPI) (2020)  
SN Applied Sciences (2020)  
Nutrients (2020)  
Plant Foods for Human Nutrition (2020)  
Drug Design, Development and Therapy (2020)  
Antioxidants (2020)  
Food Chemistry (2020)  
Foods (2019)  
Journal of Food Science (2019)  
Molecules (2019)  
Journal of Functional Foods (2019)  
International Journal of Experimental Spectroscopic Techniques (2018)  
Chiang Mai Journal of Science (2018)

## ● **POSTER A CONFERENZE**

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### **Merck Young Chemists' Symposium XXI edition, MYCS 2022, Rimini, 21-23 Novembre**

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**Carmela Maria Montone**, Purification and characterization of short chain bioactive peptides obtained from hemp seeds with multifunctional properties for the prevention and treatment of metabolic syndrome, Merck Young Chemists' Symposium XXI edition, MYCS 2022, Rimini, 21-23 Novembre

**Carmela Maria Montone**, Purification and characterization of short chain bioactive peptides obtained from hemp seeds with multifunctional properties for the prevention and treatment of metabolic syndrome, XIV Convegno Nazionale INBB, Roma, 17-18 Novembre 2022

**3th Autumn Meeting for Young Chemists in Biomedical Sciences, AMYC-BIOMED 2022 17-19 Ottobre 2022**

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Andrea Cerrato, Sara Elsa Aita, Benedetta Giannelli Moneta, **Carmela Maria Montone**, Enrico Taglioni and Chiara Cavaliere, A rapid and innovative enrichment approach for the metaproteomic characterization of dissolved organic matter in groundwater, 3th Autumn Meeting for Young Chemists in Biomedical Sciences, AMYC-BIOMED 2022, Napoli, 17-19 Ottobre 2022

**HPLC 2022, 50th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, San Diego, California USA, 18-23 Giugno 2022**

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**Carmela Maria Montone**, Carmen Bedia, Roma Tauler, Alessandro Sciarra, Anna Laura Capriotti, Untargeted Metabolomics of Prostate Cancer Zwitterionic and Positively Charged Compounds In Urine. HPLC 2022, 50th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, San Diego, California USA, 18-23 Giugno 2022.

Anna Laura Capriotti, Sara Elsa Aita, Andrea Cerrato, **Carmela Maria Montone**, Aldo Laganà, A New Opening for the Tricky Untargeted Investigation of Natural and Modified Short Peptides, HPLC 2022, 50th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, San Diego, California USA, 18-23 Giugno 2022.

Andrea Cerrato, Sara Elsa Aita, Benedetta Giannelli Moneta, **Carmela Maria Montone**, Enrico Taglioni, Chiara Cavaliere, Metaproteomic Characterization of Dissolved Organic Matter in Groundwater by a Simple and Innovative Enrichment Approach based on Extra-Wide Pore C18, HPLC 2022, 50th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, San Diego, California USA, 18-23 Giugno 2022.

**Merck Young Chemists' Symposium (MYCS) 2021, Rimini, Novembre, 22-24, 2021**

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Sara Elsa Aita, Andrea Cerrato, **Carmela Maria Montone**, Susy Piovesana, A rapid and simple method for fatty acids profiling by UHPLC-HRMS/MS in hemp inflorescence, Merck Young Chemists' Symposium (MYCS) 2021, Rimini, Novembre, 22-24, 2021

**Incontri di Scienza delle Separazioni 2019, NAPOLI, 28-29 Novembre 2019**

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Anna Laura Capriotti, **Carmela Maria Montone**, *Metaproteomic Investigation of Bioaerosol from Work Environments*, Incontri di Scienza delle Separazioni 2019, NAPOLI, 28-29 Novembre 2019

**Giornata Scientifica Bioanalitica 2019, PARMA, 6 Dicembre 2019**

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Anna Laura Capriotti, **Carmela Maria Montone**, *Metaproteomic investigation of bioaerosol from work environments* Giornata Scientifica Bioanalitica 2019, PARMA, 6 Dicembre 2019

Chiara Cavaliere, **Carmela Maria Montone**, Michela Antonelli, Andrea Cerrato, Sara Elsa Aita, Barbara Benedetti, Aldo Laganà, *Characterization of polar lipidome of spirulina microalgae by an optimized liquid chromatography separation and high-resolution mass spectrometry*, Giornata Scientifica Bioanalitica 2019, PARMA, 6 Dicembre 2019

Andrea Cerrato, Sara Elsa Aita, Michela Antonelli, **Carmela Maria Montone**, Susy Piovesana, Aldo Laganà, *Graphitized carbon black enrichment procedure for the detection of phospholipids in olive oil by liquid chromatography-high resolution mass spectrometry* Giornata Scientifica Bioanalitica 2019, PARMA, 6 Dicembre 2019

**XXVIII Congress of the Italian Chemical Society SCI, BARI, 22-26 Settembre 2019**

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Chiara Cavaliere, Michela Antonelli, Barbara Benedetti, Giorgia La Barbera, **Carmela Maria Montone**, Aldo Laganà, *Microalgae as a source of bioactive peptides: extraction, identification and assessment of their activities* XXVIII Congress of the Italian Chemical Society SCI, BARI, 22-26 Settembre 2019

**Euroanalysis XX Conference ISTANBUL, 1-5 Settembre 2019**

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**Carmela Maria Montone**, Barbara Benedetti, Anna Laura Capriotti, Andrea Cerrato, Michela Antonelli, Aldo Laganà, *Development of an Analytical Method for the Metaproteomic Investigation of Bioaerosol deposited on quartz Filters in different Environmental Sites*, Euroanalysis XX Conference ISTANBUL, 1-5 Settembre 2019

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### **Convegno giovani ricercatori 2019 "C'è futuro nella ricerca!" ROMA, 25-26 Giugno 2019**

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**Carmela Maria Montone**, Anil Incel, Börje Sellergren, Anna Laura Capriotti, Susy Piovesana, Aldo Laganà, *Core shell molecularly imprinted polymers for selective magnetic enrichment of phospho-tyrosine-peptides*, Convegno giovani ricercatori 2019 "C'è futuro nella ricerca!" ROMA, 25-26 Giugno 2019

Andrea Cerrato, Michela Antonelli, Barbara Benedetti, **Carmela Maria Montone**, Sara Elsa Aita Susy Piovesana, Anna Laura Capriotti, Aldo Laganà, *Innovative analytical platform for enrichment and identification of short peptides in urine* Convegno giovani ricercatori 2019 "C'è futuro nella ricerca!" ROMA, 25-26 Giugno 2019

Sara Elsa Aita, Michela Antonelli, Barbara Benedetti, Andrea Cerrato, **Carmela Maria Montone**, Chiara Cavaliere, Aldo Laganà, *Comparison of two enrichment procedures using GCB and WAX cartridges for the detection of phospholipids in olive oil by liquid chromatography-high resolution mass spectrometry* Convegno giovani ricercatori 2019 "C'è futuro nella ricerca!" ROMA, 25-26 Giugno 2019

Michela Antonelli Sara Elsa Aita,, Barbara Benedetti, Andrea Cerrato, **Carmela Maria Montone**, *Polar lipidome microalgae research through optimized chromatographic separation, High-Resolution Mass Spectrometry, and Comprehensive Identification with Lipostar*. Convegno giovani ricercatori 2019 "C'è futuro nella ricerca!" ROMA, 25-26 Giugno 2019

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### **48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques, MILANO, 16-20 Giugno 2019**

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**Carmela Maria Montone**, Michela Antonelli, Barbara Benedetti, Andrea Cerrato, Aldo Laganà. *Graphitized carbon black enrichment procedure for the detection of phospholipids in olive oil by liquid chromatography-high resolution mass spectrometry*, 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques, MILANO, 16-20 Giugno 2019

Michela Antonelli, Barbara Benedetti, Andrea Cerrato, **Carmela Maria Montone**, Aldo Laganà, Anna Laura Capriotti, *Analytical strategy for the metaproteomic investigation of atmospheric bioaerosol for environmental analysis* 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques, MILANO, 16-20 Giugno 2019

Andrea Cerrato, **Carmela Maria Montone**, Chiara Cavaliere, Susy Piovesana, Anna Laura Capriotti, Aldo Laganà, *New insight in urinary peptidomics: innovative strategy for short peptide analysis*, 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques, MILANO, 16-20 Giugno 2019

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### **American Society for Mass Spectrometry ASMS, 2019 Atlanta 2-6 Giugno 2019**

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Susy Piovesana; **Carmela Maria Montone**; Chiara Cavaliere; Giorgia La Barbera; Aldo Laganà Anna Laura Capriotti; Carlo Crescenzi. *Enhanced detection of short and hydrophilic peptides fraction using porous graphitic carbon*, American Society for Mass Spectrometry ASMS, 2019 Atlanta 2-6 Giugno 2019

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### **2nd International Symposium on Bioactive Peptides, VALENCIA, 22-24 Maggio 2019**

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**Carmela Maria Montone**, Anna Laura Capriotti, Giorgia La Barbera, Michela Antonelli, Andrea Cerrato, Aldo Laganà, *Development of a new peptidomic platform for the extraction, separation, and identification of bioactive peptides in microalgae*. 2nd International Symposium on Bioactive Peptides, VALENCIA, 22-24 Maggio 2019

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### **XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society., BOLOGNA, 16-20th of September 2018**

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**Carmela Maria Montone**, Michela Antonelli, Anna Laura Capriotti, Chiara Cavaliere, Aldo Laganà *Identification of polycyclic aromatic hydrocarbons in polyhydroxyalkanoate biopolymers obtained from urban solid waste by gas chromatography/mass spectrometry analysis* XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society., BOLOGNA, 16-20<sup>th</sup> of September 2018 ([best poster](#))

Michela Antonelli, Giorgia La Barbera, **Carmela Maria Montone**, Susy Piovesana, Aldo Laganà *Polar lipid profile of spirulina microalga by liquid chromatography coupled to high resolution mass spectrometry* XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society, BOLOGNA, 16-20<sup>th</sup> of September 2018

Chiara Cavaliere, Michela Antonelli, Giorgia La Barbera, **Carmela Maria Montone**, Susy Piovesana, Aldo Laganà *Tetrademus obliquus microalgae as a source of bioactive peptides: purification and identification by multidimensional liquid*

## 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18th of May 2018

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**Carmela Maria Montone**, Michela Antonelli, Giorgia La Barbera, Susy Piovesana, Roberto Samperi, Aldo Laganà. *A rapid magnetic solid phase extraction method followed by liquid chromatography-tandem mass spectrometry analysis for the determination of mycotoxins in cereals* 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18th of May 2018

Patrizia Foglia, Riccardo Zenezini Chiozzi, Anna Laura Capriotti, Michela Antonelli, **Carmela Maria Montone**, Aldo Laganà *Development of an analytical method for the metaproteomic investigation of air particulate matter deposited on teflon filters for environmental analysis* 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18<sup>th</sup> of May 2018

Anna Laura Capriotti, Michela Antonelli, Patrizia Foglia, **Carmela Maria Montone**, Roberto Samperi, Aldo Laganà *Development of an extraction method for polycyclic aromatic hydrocarbons in polyhydroxyalkanoate biopolymers before gas chromatography-mass spectrometry analysis* 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18<sup>th</sup> of May 2018

Chiara Cavaliere, Michela Antonelli, Giorgia La Barbera, **Carmela Maria Montone**, Riccardo Zenezini Chiozzi, Aldo Laganà *Multidimensional liquid chromatography coupled to mass spectrometry for purification and identification of potential ace-inhibitory and antioxidant peptides in tetrademus obliquus microalgae* 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18<sup>th</sup> of May 2018

Susy Piovesana, Michela Antonelli, Chiara Cavaliere, **Carmela Maria Montone**, Giorgia La Barbera, Aldo Laganà *Characterization of the endogenous phosphopeptides in saliva by metal oxide affinity chromatography and shotgun peptidomics* 42nd International Symposium on Capillary Chromatography and 15th GCxGC Symposium, RIVA DEL GARDA, 13-18<sup>th</sup> of May 2018

## XXVI National Congress of the Italian Chemical Society SCI, PAESTUM, 10-14th of September 2017

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Chiara Cavaliere, Francesca Ferraris, Giorgia La Barbera, **Carmela Maria Montone**, Aldo Laganà *UHPLC- HRMS Study of Glucosinolates in Cauliflower Waste Products* XXVI National Congress of the Italian Chemical Society SCI, PAESTUM, 10-14th of September 2017

Anna Laura Capriotti, Francesca Ferraris, **Carmela Maria Montone**, Susy Piovesana, Aldo Laganà *Label free shotgun proteomics approach to characterize muscle tissue from farmed and wild european sea bass (Dicentrarchus labrax)* XXVI National Congress of the Italian Chemical Society SCI, PAESTUM, 10-14<sup>th</sup> of September 2017

## "Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi" FERRARA (Italy) 11-12th of July 2017

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Chiara Cavaliere, Francesca Ferraris, **Carmela Maria Montone**, Susy Piovesana, Aldo Laganà *Magnetic Solid Phase Extraction Followed by Liquid Chromatography - Tandem Mass Spectrometry for UV Filter Determination in Surface Water*, "Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi" FERRARA (Italy) 11-12<sup>th</sup> of July 2017

## ● PUBBLICAZIONI SCIENTIFICHE

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### An untargeted analytical workflow based on Kendrick mass defect filtering reveals dysregulations in acylcarnitines in prostate cancer tissue

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A. Cerrato, S. E. Aita, A. Biancolillo, A. Laganà, F. Marini, **C. M. Montone**, D. Rosati, S. Salsiccia, A. Sciarra, E. Taglioni, A. L. Capriotti, *An untargeted analytical workflow based on Kendrick mass defect filtering reveals dysregulations in acylcarnitines in prostate cancer tissue*, **Analytica Chimica Acta** 2024, 1307, DOI:10.1016/j.aca.2024.342574

### Preparation of Monolith for Online Extraction and LC-MS Analysis of $\beta$ -Estradiol in Serum Via a Simple Multicomponent Reaction

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A. Cerrato, S. E. Aita, C. Cavaliere, A. Laganà, **C. M. Montone\***, S. Piovesana, E. Taglioni, A. L. Capriotti, *Preparation of Monolith for Online Extraction and LC-MS Analysis of  $\beta$ -Estradiol in Serum Via a Simple Multicomponent Reaction*, **Analytical Chemistry** 2024, 96, 11, 4639-4646, DOI: 10.1021/acs.analchem.3c05706

### One-phase extraction coupled with photochemical reaction allows the in-depth lipid characterization of hempseeds by untargeted lipidomics

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A. Cerrato, S. E. Aita, G. Cannazza, C. Cavaliere, A. Cavazzini, C. Citti, **C. M. Montone\***, E. Taglioni, A. Laganà, *One-phase extraction coupled with photochemical reaction allows the in-depth lipid characterization of hempseeds by untargeted lipidomics*, **Talanta**, 2024, 271, doi: 10.1016/j.talanta.2024.125686 (IF:6.1)

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### **Transformation products of antibacterial drugs in environmental water: Identification approaches based on liquid chromatography-high resolution mass spectrometry**

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**C. M. Montone**, B. Giannelli Moneta, A. Laganà, S. Piovesana, E. Taglioni, C. Cavaliere, *Transformation products of antibacterial drugs in environmental water: Identification approaches based on liquid chromatography-high resolution mass spectrometry*, **Journal of Pharmaceutical and Biomedical Analysis**, 2024, 238, doi: 10.1016/j.jpba.2023.115818 (IF:3.4)

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### **Dispersive-solid-phase extraction using a hydrophilic molecularly imprinted polymer for the selective extraction of patulin in apple juice samples**

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C. Cavaliere, A. Cerrato, A. Laganà, **C. M. Montone\***, S. Piovesana, E. Taglioni, A. L. Capriotti, *Dispersive-solid-phase extraction using a hydrophilic molecularly imprinted polymer for the selective extraction of patulin in apple juice samples*, **Microchimica Acta**, 2023, 190, 485, doi: 10.1007/s00604-023-06056-8 (IF:4.8)

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### **Untargeted cannabinomics reveals the chemical differentiation of industrial hemp based on the cultivar and the geographical field location**

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### **Occurrence of per- and polyfluorinated alkyl substances in wastewater treatment plants in Northern Italy**

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B. Giannelli Moneta, M. L. Feo, M. Torre, P. Tratzi, S. E. Aita, **C. M. Montone**, E. Taglioni, S. Mosca, C. Balducci, M. Cerasa, E. Guerriero, F. Petracchini, C. Cavaliere, A. Laganà, V. Paolini, *Occurrence of per- and polyfluorinated alkyl substances in wastewater treatment plants in Northern Italy*. **Science of The Total Environment** 2023, 894-10 doi: 10.1016/j.scitotenv.2023.165089 (IF: 9.800)

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### **A green extraction method based on carbon nitride sorbent for the simultaneous determination of free and conjugated estrogens in milk**

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### **Recent trends in glycoproteomics by characterization of intact glycopeptides**

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### **Evaluation of the carotenoid and fat-soluble vitamin profile of industrial hemp inflorescence by liquid chromatography coupled to mass spectrometry and photodiode-array detection**

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A. Cerrato, S. E. Aita, G. Cannazza, A. L. Capriotti, C. Cavaliere, C. Citti, C. Dal Bosco, A. Gentili, **C. M. Montone**, R. Paris, A. Laganà, *Evaluation of the carotenoid and fat-soluble vitamin profile of industrial hemp inflorescence by liquid chromatography coupled to mass spectrometry and photodiode-array detection*, **Journal of Chromatography A**, 2023, 1692, doi:10.1016/j.chroma.2023.463838, (IF:4.601)



## **Biotic transformation products of sulfonamides in environmental water samples: High-resolution mass spectrometry-based tentative identification by a suspect screening approach**

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**C. M. Montone**, B. Giannelli Moneta, S. E. Aita, A. L. Capriotti, A. Cerrato, A. Laganà, A. Marchetti, S. Piovesana, M. Villano, C. Cavaliere, *Biotic transformation products of sulfonamides in environmental water samples: High-resolution mass spectrometry-based tentative identification by a suspect screening approach*, **Journal of Pharmaceutical and Biomedical Analysis**, 2023, 227, doi: 10.1016/j.jpba.2023.115292, (IF:3.571)

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## **Investigating the Short Peptidome Profile of Italian Dry-Cured Ham at Different Processing Times by High-Resolution Mass Spectrometry and Chemometrics**

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## **Insights into the syntrophic microbial electrochemical oxidation of toluene: a combined chemical, electrochemical, taxonomical, functional gene-based, and metaproteomic approach**

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## Magnetic Levitation Patterns of Microfluidic-Generated Nanoparticle-Protein Complexes

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### **Protein corona profile of graphene oxide allows detection of glioblastoma multiforme using a simple one-dimensional gel electrophoresis technique: a proof-of-concept study**

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R. Di Santo, E. Quagliarini, L. Digiaco, D. Pozzi, A. Di Carlo, D. Caputo, A. Cerrato, **C. M. Montone**, M. Mahmoudi, G. Caracciolo, *Protein corona profile of graphene oxide allows detection of glioblastoma multiforme using a simple one-dimensional gel electrophoresis technique: a proof-of-concept study*, **Biomaterials Science**, 2021, doi: 10.1039/d1bm00488c (IF: 6.843)

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L. Digiaco, F. Giulimondi, A. L. Capriotti, S. Piovesana, **C. M. Montone**, R. Zenezini Chiozzi, A. Laganà, M. Mahmoudi, D. Pozzi, G. Caracciolo, *Optimal centrifugal isolating of liposome–protein complexes from human plasma*, **Nanoscale Advances**, 2021, doi: 10.1039/D1NA00211B (IF: 4.553)

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### **Andean blueberry of the genus disterigma: A high-resolution mass spectrometric approach for the comprehensive characterization of phenolic compounds**

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C. Cavaliere, A. M. I. Montone, S. E. Aita, R. Capparelli, A. Cerrato, P. Cuomo, A. Laganà, **C. M. Montone\***, S. Piovesana, Anna Laura Capriotti, *Production and Characterization of Medium-Sized and Short Antioxidant Peptides from Soy Flour-Simulated Gastrointestinal Hydrolysate*, **Antioxidants**, 10(5), 734; 2021, doi: 10.3390/antiox10050734 (IF: 6.313)

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### **Phytocannabinomics: Untargeted metabolomics as a tool for cannabis chemovar differentiation**

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### **Identification and Quantification of Polycyclic Aromatic Hydrocarbons in Polyhydroxyalkanoates Produced from Mixed Microbial Cultures and Municipal Organic Wastes at Pilot Scale**

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## Comprehensive identification of native medium-sized and short bioactive peptides in sea bass muscle

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A. L. Capriotti, A. Cerrato, S. E. Aita, **C. M. Montone**, S. Piovesana, A. Laganà, C. Cavaliere, *Degradation of the polar lipid and fatty acid molecular species in extra virgin olive oil during storage based on shotgun lipidomics*. **Journal of Chromatography A**, 1639, 2021, doi: 10.1016/j.chroma.2021.461881 (IF: 4.759)

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## Identification and antimicrobial activity of medium-sized and short peptides from yellowfin tuna (*Thunnus albacares*) simulated gastrointestinal digestion

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A. Cerrato, A. L. Capriotti, F. Capuano, C. Cavaliere, A. M. I. Montone, **C. M. Montone\***, S. Piovesana, R. Zenezini Chiozzi, A. Laganà, *Identification and antimicrobial activity of medium-sized and short peptides from yellowfin tuna (*Thunnus albacares*) simulated gastrointestinal digestion*, **Foods**, 9, 9, 2020, doi: 10.3390/foods9091185 (IF: 4.350)

## A new opening for the tricky untargeted investigation of natural and modified short peptides

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## Pitfalls in the analysis of phytocannabinoids in cannabis inflorescence

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## Isolation of a High-Affinity Cannabinoid for the Human CB1 Receptor from a Medicinal Cannabis sativa Variety: $\Delta^9$ Tetrahydrocannabutol, the Butyl Homologue of $\Delta^9$ Tetrahydrocannabinol

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N. A. Cacciola, A. Cerrato, A. L. Capriotti, C. Cavaliere, M. D' Apolito, **C. M. Montone**, S. Piovesana, G. Squillaci, G. Peluso, A. Laganà, *Untargeted Characterization of Chestnut (*Castanea sativa* Mill.) Shell Polyphenol Extract: A Valued Bioresource for Prostate Cancer Cell Growth Inhibition*, **Molecules**, 2020, 25(12), 2730; doi: 10.3390/molecules25122730 (IF: 4.412)

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### **A comprehensive analysis of liposomal biomolecular corona upon human plasma incubation: The evolution towards the lipid corona**

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G. La Barbera, A. L. Capriotti, G. Caracciolo A. Cerrato, **C. M. Montone**, S. Piovesana, D. Pozzi, E. Quagliarini, A. Laganà, *A comprehensive analysis of liposomal biomolecular corona upon human plasma incubation: The evolution towards the lipid corona*, **Talanta**, 2020, 209, art. no. 120487, doi: 10.1016/j.talanta.2019.120487 (IF: 6.057)

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### **Development of a Sample Preparation Workflow for Sulfopeptide Enrichment: from Target Analysis to Challenges in Shotgun Sulfopeptidomics**

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A. L. Capriotti, A. Cerrato, A. Laganà, **C. M. Montone**, S. Piovesana, R. Zenezini Chiozzi, C. Cavaliere, *Development of a Sample Preparation Workflow for Sulfopeptide Enrichment: from Target Analysis to Challenges in Shotgun Sulfopeptidomics*, **Analytical Chemistry**, 2020, doi: 10.1021/acs.analchem.0c01342 (IF: 6.986)

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### **Determination of multi-class emerging contaminants in sludge and recovery materials from waste water treatment plants: Development of a modified QuEChERS method coupled to LC-MS/MS**

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B. Benedetti, M. Majone, C. Cavaliere, **C. M. Montone**, F. Fatone, N. Frisonc, A. Laganà, A. L. Capriotti, *Determination of multi-class emerging contaminants in sludge and recovery materials from waste water treatment plants: Development of a modified QuEChERS method coupled to LC-MS/MS*, **Microchemical Journal**, 2020, 155, 104732 doi: 10.1016/j.microc.2020.104732 (IF: 4.821)

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### **Does the protein corona take over the selectivity of molecularly imprinted nanoparticles? The biological challenges to recognition**

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A. L. Capriotti, S. Piovesana, R. Zenezini Chiozzi, **C. M. Montone**, A. M. Bossi, A. Laganà, *Does the protein corona take over the selectivity of molecularly imprinted nanoparticles? The biological challenges to recognition*, **Journal of Proteomics** 2020, 219, 103736 doi: 10.1016/j.jprot.2020.103736 (IF: 4.044)

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### **A new software-assisted analytical workflow based on high-resolution mass spectrometry for the systematic study of phenolic compounds in complex matrices**

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A. Cerrato, G. Cannazza, A. L. Capriotti, G. La Barbera, A. Laganà, **C. M. Montone**, S. Piovesana, C. Cavaliere, *A new software-assisted analytical workflow based on high-resolution mass spectrometry for the systematic study of phenolic compounds in complex matrices*, **Talanta**, 2020, 209, art. no. 120573, doi: 10.1016/j.talanta.2019.120573 (IF: 6.057)

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### **Phospholipidome of extra virgin olive oil: Development of a solid phase extraction protocol followed by liquid chromatography-high resolution mass spectrometry for its software-assisted identification**

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M. Antonelli, B. Benedetti, C. Cavaliere, A. Cerrato, **C. M. Montone**, S. Piovesana, A. Laganà, *Phospholipidome of extra virgin olive oil: Development of a solid phase extraction protocol followed by liquid chromatography-high resolution mass spectrometry for its software-assisted identification*, **Food Chemistry** 2020, 310, art. no. 125860, doi: 10.1016/j.foodchem.2019.125860 (IF: 7.514)

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### **New insights in hemp chemical composition: a comprehensive polar lipidome characterization by combining solid phase enrichment, high-resolution mass spectrometry, and cheminformatics**

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M. Antonelli, B. Benedetti, G. Cannazza, A. Cerrato, C. Citti, **C. M. Montone\***, S. Piovesana, A. Laganà, *New insights in hemp chemical composition: a comprehensive polar lipidome characterization by combining solid phase enrichment, high-resolution mass spectrometry, and cheminformatics*, **Analytical and Bioanalytical Chemistry**, 2019, doi: 10.1007/s00216-019-02247-6 (IF: 4.157)

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### **Development of an analytical method for the metaproteomic investigation of bioaerosol from work environments**

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### **Investigation of free and conjugated seleno-amino acids in wheat bran by hydrophilic interaction liquid chromatography-tandem mass spectrometry**

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### **Chromatographic column evaluation for the untargeted profiling of glucosinolates in cauliflower by means of ultra-high performance liquid chromatography coupled to high resolution mass spectrometry**

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### **Label free shotgun proteomics approach to characterize muscle tissue from farmed and wild European sea bass (*Dicentrarchus labrax*)**

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### **Delving into the Polar Lipidome by Optimized Chromatographic Separation, High-Resolution Mass Spectrometry, and Comprehensive Identification with Lipostar: Microalgae as Case Study**

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### **Extraction of polycyclic aromatic hydrocarbons from polyhydroxyalkanoates before gas chromatography/mass spectrometry analysis**

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### **Simultaneous Preconcentration, Identification, and Quantitation of Selenoamino Acids in Oils by Enantioselective High Performance Liquid Chromatography and Mass Spectrometry**

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### **A rapid magnetic solid phase extraction method followed by liquid chromatography- tandem mass spectrometry analysis for the determination of mycotoxins in cereals**

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### **Hempseed protein-derived short- and medium-chain peptides and their multifunctional properties**

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S. E. Aita, **C. M. Montone**, E. Taglioni, A. L. Capriotti, *Hempseed protein-derived short- and medium-chain peptides and their multifunctional properties*, *Advances in Food and Nutrition Research*, (2024) DOI: 10.1016/bs.afnr.2024.01.002

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### **Untargeted Analysis of Short-Chain Peptides in Urine Samples, in Systems Biology Methods: Molecular Biology**

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### **METABOLOMICA E BIG DATA: DALLA CARATTERIZZAZIONE COMPLETA DI UN ORGANISMO ALL'IDENTIFICAZIONE DI BIOMARKER DIAGNOSTICI**

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Carmela Maria Montone, Andrea Cerrato, Anna Laura Capriotti, Aldo Laganà  
**n. 6/2023 della rivista "La Chimica e l'Industria" ISSN 0009-4315**

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### **"Methodologies for extraction and separation of short-chain bioactive peptides" in Biologically Active Peptides**

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A. Cerrato, S. E. Aita, **C. M. Montone**, A. L. Capriotti, S. Piovesana, A. Laganà, Chapter 4: "Methodologies for extraction and separation of short-chain bioactive peptides" in *Biologically Active Peptides*, (2021), 75-86, ISBN: 9780128213896, DOI: 10.1016/B978-0-12-821389-6.00002-9

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### **Chapter 17: "Analytical Methodologies for Lipidomics in Hemp Plant", in Mass Spectrometry-Based Lipidomics: Methods and Protocols**

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**INVESTIRE NELLA FORMAZIONE TECNICO-SCIENTIFICA: GUIDARE IL FUTURO DELLA SCIENZA E DELLA TECNOLOGIA**

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