



Carmela Maria Montone

● PRESENTAZIONE

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Web of Science ResearcherID: AAJ-3640-2020

● ESPERIENZA LAVORATIVA

01/11/2022 – ATTUALE Roma, Italia

ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA"

1/11/2022- 31/10/2023 Assegnista di Ricerca, categoria B presso il Dipartimento di Medicina Molecolare, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma "La Sapienza". Titolo progetto AIRC: "Nanotechnology-based rapid in vitro diagnostic test for pancreatic cancer"; Finanziato da fondi AIRC_ID.24521.

01/11/2021 – 31/10/2022 Roma, Italia

ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA"

1/11/2021-31/10/2022 Assegnista di Ricerca, categoria B presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma "La Sapienza". 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.

01/11/2020 – 31/10/2021 Roma

ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA"

1/11/2020-31/10/2021 Assegnista di Ricerca, categoria B presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma "La Sapienza". 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.

01/11/2019 – 31/10/2020 Roma, Italia

ASSEGNISTA DI RICERCA UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA"

1/11/2019- 31/10/2020 Assegnista di Ricerca, categoria B presso il Dipartimento di Chimica, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma "La Sapienza". 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

19/12/2019 Roma, Italia

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

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

Voto finale OTTIMO con lode

05/11/2018 – 05/05/2019 Utrecht, Paesi Bassi

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

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

Indirizzo Malmö (Svezia), Utrecht, Paesi Bassi

2017

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

16/09/2016 Roma, Italia

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

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

29/10/2014 Salerno, Italia

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

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

07/2010

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

● COMPETENZE LINGUISTICHE

Lingua madre: **ITALIANO**

Altre lingue:

	COMPRESIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale	Interazione orale	
INGLESE	B2	B2	B1	B1	B2

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

● **COMPETENZE DIGITALI**

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

Competenze professionali

● **ULTERIORI INFORMAZIONI**

COMPETENZE PROFESSIONALI

01/01/2017 – ATTUALE

Attività scientifiche di ricerca

I risultati dell'attività scientifica della Dott.ssa Montone hanno prodotto 75 pubblicazioni su riviste scientifiche internazionali, 2 capitoli di libro, 3 brevetti, 16 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).

ATTUALE

LABORATORY SPECIALIST

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

ABILITAZIONE SCIENTIFICA NAZIONALE

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

PREMI E RICONOSCIMENTI

Premi e riconoscimenti

- **Premio INBB**, categoria Alimenti con un progetto dal titolo: "**Purificazione e caratterizzazione di peptidi bioattivi a catena corta ottenuti da semi di canapa con proprietà multifunzionali per la prevenzione e il trattamento della sindrome metabolica**" XIV Convegno Nazionale INBB, Roma, 17-18 Novembre 2022
- **Premio Minerva III edizione**, categoria Dottorandi di Ricerca, macroarea A, Università degli Studi di Roma "La Sapienza"
- **Premio Giovane Ricercatore 2021**, assegnato dal Gruppo Interdivisionale di Scienza delle Separazioni Della Società Chimica Italiana (SCI)
- **Premio Giovane Ricercatore Bioanalitica 2021**, assegnato dal Gruppo di Bioanalitica della Divisione di Chimica Analitica, Società Chimica Italiana (SCI)
- **Premio per il miglior poster** al XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society, Bologna 16-20 settembre 2018
- **Premio di Laurea 2017**, assegnato dalla Divisione di Chimica Analitica, Società Chimica Italiana (SCI)
- **Premio "Laureato Eccellente" per l'anno accademico 2015/2016**, assegnato dall'Università degli Studi di Roma "La Sapienza", 11 maggio 2017

Borse di Studio

Borsa di Studio per partecipare agli Incontri di Scienza delle Separazioni, Firenze, 17 -18 Novembre 2022

Borsa di Studio per partecipare al congresso HPLC 2022, 50th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, San Diego, California USA, 18-23 giugno 2022

Borsa di Studio per partecipare al XXVII Congress of the Italian Chemical Society SCI, on-line congress, 14-23 settembre 2021

Borsa di Studio per partecipare agli Incontri di Scienza delle Separazioni 2019, Napoli, 28-29 novembre 2019

Borsa di Studio per partecipare al XXVIII Congress of the Italian Chemical Society SCI, Bari, 22-26 settembre 2019

Borsa di Studio per partecipare al 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques (HPLC2019), Milano, 16-20 giugno 2019

Borsa di Studio per partecipare al XXVII Congress of the Italian Chemical Society SCI, Bologna, 16-20 settembre 2018

Borsa di Studio per partecipare al XXVI National Congress of the Italian Chemical Society SCI, Paestum, 10-14 settembre 2017

Borsa di Studio per partecipare alle Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi organizzate Gruppo Interdivisionale di Scienza delle Separazioni in collaborazione con il Gruppo Divisionale di Bioanalitica, Ferrara 10-11 luglio 2017

PROGETTI DI RICERCA FINANZIATI

Progetti di ricerca finanziati (responsabile scientifico)

"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

"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

"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 "La Sapienza", numero protocollo: AR11816435BF9553

"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

Progetti di ricerca finanziati (partecipante)

Progetto finanziato dalla Sapienza: Phytocannabinoid profiling in different industrial hemp (Cannabis Sativa L.) samples. PI: Chiara Cavaliere

Progetto finanziato dal MUR: Integrated biorefinery for the production of biodiesel from microalgae , ORIGAMI PI: Simone Ferrari

Progetto finanziato dall' INAIL: Comparison between classical microbiology and alternative chemical techniques, molecular biology, metagenomics and metaproteomics, for the study of bioaerosol in the workplace. PI: Anna Laura Capriotti

Progetto finanziato da AGER: Valorization of Italian Olive products through INnovative analytical tools - VIOLIN. PI: Anna Laura Capriotti

ATTIVITÀ DI INSEGNAMENTO

Attività di insegnamento

2022-oggi: **Cultore di Materia del Corso: Spettrometria di Massa con Laboratorio**, Università degli Studi di Roma "La Sapienza"

A.A. 2022-2023: **Corso per Dottorandi in Scienze Chimiche**, Università degli Studi di Roma "La Sapienza"
Titolo del corso: Metabolomica: teoria, principi e tecniche analitiche (Modulo 1) (3CFU)

A. A. 2021-2022: **Corso per Dottorandi in Scienze Chimiche**, Università degli Studi di Roma "La Sapienza"
Titolo del corso: Metabolomica (3CFU)

2021-oggi: **Cultore di Materia del Corso: Chimica dell'Ambiente**, Università degli Studi di Roma "La Sapienza"
LM-54 - SCIENZE CHIMICHE (1° semestre)

A. A. 2020-2021: **Corso per Dottorandi in Scienze Chimiche**, Università degli Studi di Roma "La Sapienza"
Titolo del corso: Metabolomica (3CFU)

Attività di Tutoraggio

Vincitrice dell'incarico di tutoraggio ex legge n. 170 del 2003. Bando n. 5/2018 Insegnamento dei corsi di base di Chimica del Corso di Laurea triennale in Biotecnologie agro-industriali (II semestre) (40 ore)

Vincitrice del Bando n. 99/2017 Prot. n. 2383 Incarico di tutoraggio a supporto delle azioni previste dal piano lauree scientifiche (40 ore)

Vincitrice dell'incarico di tutoraggio ex legge n. 170 del 2003. Bando n. 12/2017 Insegnamento di Chimica Generale ed Inorganica del Corso di Laurea in Biotecnologie Agro -Industriali (II semestre) (40 ore)

COMUNICAZIONI ORALI A CONFERENZE

Comunicazioni orali su invito

New perspectives of peptides: from nutraceuticals to diagnostics.

Giornate di Bioanalitica verso il 2030, Firenze, 27-28 Marzo 2023 (**keynote**)

One Thousand Application of Peptides: from Nutraceutical to Biomarker Discovery.

Incontri di Scienza delle Separazioni Firenze, 17 -18 Novembre 2022 (**keynote**)

Microalgae as feedstock for biofuel: fatty acids characterization as selection criteria

Meet on Biotechnology and Bioengineering, BIOTECHMEET2021, in Porto, Portugal 16 - 18, Settembre 2021 (**Invited speaker**)

Comunicazioni orali

[1] *Analytical workflow for sulfopeptide enrichment and sequence analysis with site localization*, **XXIX Congresso della Divisione di Chimica Analitica**, 2022, Milazzo, 11-15 Settembre

[2] *Development of an analytical workflow and nanoHPLC-MS/MS methods for sulfopeptide enrichment and sequence analysis with site localization*, **26th International Symposium on Separation Sciences**, 2022, Ljubljana, Slovenia, 28 giugno-1luglio

[3] *Untargeted characterization of medium- and short-sized antioxidant peptides from soybeans*, **Merck Young Chemists' Symposium (MYCS)** 2021, Rimini, 22-24 novembre 2021

[4] *Production and characterization of medium-sized and short antioxidant peptides from soy flour-simulated gastrointestinal hydrolysates*, **Autumn Meeting for Young Chemists in Biomedical Sciences (AMYC-BIOMED 2021)**, online, 3- 5 novembre 2021

[5] *Untargeted characterization and quantitative analysis of underivatized fatty acids in Chlorella vulgaris microalgae*, **XXVII National Congress of the Italian Chemical Society SCI**, online, 14-23 settembre 2021

[6] *Characterization of short and medium-sized antioxidant peptides from Soy Flour-Simulated Gastrointestinal Hydrolysate*, **Giornata Bioanalitica 2021 "Chimica bioanalitica per il benessere: ambiente, salute ed alimentazione"**, online, 13 luglio 2021

[7] *Valorization of extra virgin olive oil: from selenoamino acids to lipids*, **Chimica Bioanalitica per la valorizzazione dell' Olio EVO**, online, 13 luglio 2021

[8] *Development of a new integrated analytical platform for the identification of short peptides in cow milk*. **Giornata Scientifica Bioanalitica, Parma**, 6 dicembre 2019

[9] *Protein Tyrosine Sulfation: Proof-of-Concept Enrichment Methods for a too Longly Neglected Post-Translational Modification*. **Incontri di Scienza delle Separazioni**, Napoli, 28-29 novembre 2019

[10] *Development of a new analytical strategy for the selective enrichment of phospho-tyrosine peptides by molecularly imprinted polymers*. **XXVIII Congress of the Italian Chemical Society SCI**, Bari, 22-26 settembre 2019

[11] *Identification and quantitation of seleno-amino acids in wheat bran: a new methodological approach*. **Chimica Bioanalitica per la salute, l'ambiente e la sicurezza alimentare**, Bologna, 21 settembre 2018

[12] *Development of an analytical strategy for the purification and identification of bioactive peptides from microalgae*. **XXVI National Congress of the Italian Chemical Society SCI**, Paestum, 10-14 settembre 2017

[13] *Determination of Mycotoxins in Cereals by a Rapid Magnetic Solid Phase Extraction Method followed by Liquid Chromatography-Tandem Mass Spectrometry Analysis*. **Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi organizzate Gruppo Interdivisionale di Scienza delle Separazioni in collaborazione con il Gruppo Divisionale di Bioanalitica**, Ferrara 10-11 luglio 2017

INCARICHI ISTITUZIONALI

Membro del Direttivo di Chimica Analitica della Società Chimica Italiana, SCI.

2022-2024 Rappresentante Giovani Chimica Analitica

Consigliere nel Direttivo Giovani della Società Chimica Italiana, SCI.

2022-2024- Rappresentante Chimica Analitica

Rappresentante degli Assegnisti nel Consiglio di Dipartimento di Chimica

2021-oggi Università "La Sapienza" di Roma

Rappresentante dei Dottorandi nella Giunta del Dipartimento di Chimica

2017-2019 Università "La Sapienza" di Roma

Rappresentante dei Dottorandi nel Consiglio di Dipartimento di Chimica

2017-2019 Università "La Sapienza" di Roma

AFFILIAZIONE A SOCIETÀ

2017 - ATTUALE

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

ORGANIZZAZIONE DI CONGRESSI E CONFERENZE

Membro del Comitato organizzatore e scientifico del Y-RICH 2023 Annual Workshop

STAY SAFE, STAY CHEMIST, La sicurezza nella ricerca scientifica, Lunedì 22 maggio 2023 -h 10:00/ 18:00, Bari- Centro Polifunzionale Studenti "Ex Palazzo delle Poste", (Sala C. De Trizio) Piazza Cesare Battisti 1, Bari

Membro del Comitato Organizzatore e Scientifico del MYCS 2022

Merck Young Chemists' Symposium, Rimini 21-23 Novembre 2022

Membro del Comitato Scientifico del AMYC-BIOMED 2022

Autumn Meeting for Young Chemists in Biomedical Sciences, Napoli 17-19 Ottobre 2022

Membro del Comitato Scientifico del XXIX Congresso della Divisione di Chimica Analitica

La Chimica Analitica per un futuro verde e sostenibile, XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana (SCI) – 11-15 Settembre 2022- Castello di Milazzo (ME).

Membro del Comitato organizzatore e scientifico del Y-RICH 2022 Annual Workshop

Elevator pitch e colloqui di lavoro: comunicare la ricerca in modo accattivante ed efficace. 23 Maggio 2022 - h10.30-16.30, Sede Centrale SCI, Viale Liegi 48C, Roma

Membro del Comitato organizzatore del Y-RICH 2017 Annual Workshop

Comunicare e Pubblicare la Chimica ad Alto Impatto, Venerdì 23 Giugno 2017 -h.10:30/ 17:00, Aula A – Dipartimento di Chimica (1° piano -Edificio Cannizzaro) Sapienza –Università di Roma

EDITORIAL BOARDS E GUEST EDITORS

Editorial Board (La Chimica & L'Industria)

2022- oggi Comitato editoriale della rivista: La Chimica & L'Industria

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

2022-oggi **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)

Guest Editor

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)

Editorial Board

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

Reviewer board (Environmental Analysis)

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

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)

Reviewer board (Antioxidants)

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

CHAIRMAN A CONGRESSI

Convegno MYCS 2022

Merck Young Chemists' Symposium, Rimini 21-23 Novembre 2022

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

2019

Convegno Giovani Ricercatori 2019

Convegno Giovani Ricercatori 2019

Roma, 25-26 giugno 2019, Dipartimento di Chimica, Università degli Studi di Roma "La Sapienza"

ATTIVITÀ DI REFERAGGIO PER RIVISTE SCIENTIFICHE INTERNAZIONALI

Attività di referaggio per riviste scientifiche internazionali

Analytica Chimica Acta (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-oggi)
Antibiotics (MDPI) (2021-oggi)
Journal of Essential Oil Research (2020-oggi)
Journal of Fungi (MDPI) (2020-oggi)
Membranes (MDPI) (2020-oggi)
Plants (MDPI) (2020-oggi)
Cells (MDPI) (2020-oggi)
Processes (MDPI) (2020-oggi)
SN Applied Sciences (2020-oggi)
Nutrients (2020-oggi)
Plant Foods for Human Nutrition (2020-oggi)
Drug Design, Development and Therapy (2020-oggi)
Antioxidants (2020-oggi)
Food Chemistry (2020-oggi)
Toxin (2020-oggi)
Foods (2019-oggi)
Journal of Food Science (2019-oggi)
Molecules (2019-oggi)
Journal of Functional Foods (2019-oggi)
International Journal of Experimental Spectroscopic Techniques (2018)
Chiang Mai Journal of Science (2018)

2020 – ATTUALE

ATTIVITA' DI REFEREE PER PROGETTI INTERNAZIONALI

1. Per la **Czech Science Foundation**
2. Per il **National Research, Development and Innovation Office, Hungary**

BREVETTI

Metodo per la caratterizzazione di peptidi corti da canapa industriale

Laganà A, Capriotti A. L., **Montone C. M.**, Cavaliere Chiara, Cerrato Andrea, Piovesana Susy, Lammi Carmen, Arnoldi Anna, Domanda di brevetto numero: **PCT/EP2023/054233**, estensione in priorità della domanda italiana n 102022000003347 (ns rif SAA002PAT-WO) (2023) **Brevetto per invenzione**

Metodo per l'estrazione di policosanoli da canapa industriale e relativa miscela

Capriotti A. L., Cavaliere C., Cerrato A., Laganà A., Micalizzi G., Mondello L, **Montone C. M.**, Piovesana, Domanda di brevetto numero: **PCT/EP2022/070579**, estensione in priorità della domanda italiana n 102021000020228. (2023) **Brevetto per invenzione**

Isolamento di nuovi fitocannabinoidi dalla Cannabis Sativa L.

Laganà A., Capriotti A. L., **Montone C. M.**, Cannazza G., Linciano P., Citti C., Russo F., Luongo L., Iannotta M., Belardo C., Maione S., Vandelli M. A., Forni F., Gigli G. Isolamento di nuovi fitocannabinoidi dalla Cannabis sativa L.(2020) **depositato negli USA**: Provisional n° US63/050,240_Priority date 10.07.2020. **Brevetto per invenzione**

CAPITOLO LIBRO

Methodologies for extraction and separation of short-chain bioactive peptides

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

Analytical Methodologies for Lipidomics in Hemp Plant",

A. Cerrato, A.L. Capriotti, **C.M. Montone***, S. E. Aita, G. Cannazza, C. Citti, S. Piovesana, A. Laganà. Chapter 17: "Analytical Methodologies for Lipidomics in Hemp Plant", in *Mass Spectrometry-Based Lipidomics: Methods and Protocols*, (2021), 257-273, DOI: 10.1007/978-1-0716-1410-5_17

PUBBLICAZIONI SU RIVISTE INTERNAZIONALI

1- Occurrence of per- and polyfluorinated alkyl substances in wastewater treatment plants in Northern Italy.

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**)

2- Kratom: The analytical challenge of an emerging herbal drug

C. Citti, A. Laganà, A. L Capriotti, **C M Montone**, G Cannazza, *Kratom: The analytical challenge of an emerging herbal drug*, *Journal of Chromatography A* 2023, 1703 doi: 10.1016/j.chroma.2023.464094 (**IF:4.601**)

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

C. M. Montone, A. L. Capriotti, C. Cavaliere, A. Cerrato, B. Giannelli Moneta, E. Taglioni, A. Laganà, *A green extraction method based on carbon nitride sorbent for the simultaneous determination of free and conjugated estrogens in milk*, *Green Analytical Chemistry*, 2023, 5 doi: 10.1016/j.greeac.2023.100055

4- Recent trends in glycoproteomics by characterization of intact glycopeptides

S. Piovesana, C. Cavaliere, A. Cerrato, A. Laganà, **C. M. Montone*** & A. L. Capriotti, *Recent trends in glycoproteomics by characterization of intact glycopeptides*, *Analytical and Bioanalytical Chemistry*, 2023, doi: 10.1007/s00216-023-04592-z (**IF:4.478**)-**Young Investigators in (Bio-) Analytical Chemistry 2023-**

5- Use of elexacaftor/tezacaftor/ivacaftor combination in pregnancy

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POSTER A CONFERENZE

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

XIV Convegno Nazionale INBB, Roma, 17-18 Novembre 2022

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

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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

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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

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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

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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

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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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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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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

XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society., BOLOGNA, 16-20 Settembre 2018

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 Settembre 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 Settembre 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 chromatography - mass spectrometry* XXVII National Congress of the Analytical Chemistry Division of the Italian Chemical Society., BOLOGNA, 16-20 Settembre 2018

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

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, 13-18 Maggio 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 Maggio 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 Maggio 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 Maggio 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 Maggio 2018

XXVI National Congress of the Italian Chemical Society SCI, PAESTUM, 10-14 Settembre 2017

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, 10-14 Settembre 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 Settembre 2017

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

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 Luglio 2017

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

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