

## PUBBLICAZIONI SU RIVISTE INTERNAZIONALI

### **1- Detailed investigation of the composition and transformations of phenolic compounds in fresh and fermented *Vaccinium floribundum* berry extracts by high-resolution mass spectrometry and bioinformatics**

A. Cerrato, S. Piovesana, S. E. Aita, C. Cavaliere, S. Felletti, A. Laganà, **C. M. Montone**, C. Vargad-de-la-Cruz, A. L. Capriotti, *Detailed investigation of the composition and transformations of phenolic compounds in fresh and fermented *Vaccinium floribundum* berry extracts by high-resolution mass spectrometry and bioinformatics*, 2022, *Phytochemical Analysis*, doi: 10.1002/pca.3105 **(IF: 3.73)**

### **2- Untargeted analysis of contaminants in river water samples: Comparison between two different sorbents for solid-phase extraction followed by liquid chromatography-high-resolution mass spectrometry determination**

**C. M. Montone**, B. Giannelli Moneta, S. E. Aita, F. Aulenta, C. Cavaliere, A. Cerrato, S. Fazi, A. Laganà, V. Paolini, F. Petracchini, S. Piovesana, A. L. Capriotti, *Untargeted analysis of contaminants in river water samples: Comparison between two different sorbents for solid-phase extraction followed by liquid chromatography-high-resolution mass spectrometry determination*, *Microchemical Journal*, 172, 2021, doi: 10.1016/j.microc.2021.106979 **(IF:4.821)**

### **3- Multielement Characterization and Antioxidant Activity of Italian Extra-Virgin Olive Oils**

M. L. Astolfi, F. Marini, M. A. Frezzini, L. Massimi, A. L. Capriotti, **C. M. Montone**, S. Canepari, *Multielement Characterization and Antioxidant Activity of Italian Extra-Virgin Olive Oils*, *Frontiers in Chemistry*, 9, 2021, doi: 10.3389/fchem.2021.769620 **(IF: 5.221)**

### **4- Fully Automatized Detection of Phosphocholine-Containing Lipids through an Isotopically Labeled Buffer Modification Workflow**

A. Cerrato, S. E. Aita, A. L. Capriotti, C. Cavaliere, **C. M. Montone**, S. Piovesana, A. Laganà, *Fully Automatized Detection of Phosphocholine-Containing Lipids through an Isotopically Labeled Buffer Modification Workflow*, *Analytical Chemistry*, 93 (45), 2021, doi: 10.1021/acs.analchem.1c02944 **(IF: 6.986)**

### **5- Characterization of the trans-epithelial transport of green tea (*C. sinensis*) catechin extracts with in vitro inhibitory effect against the sars-cov-2 papain-like protease activity**

**C. M. Montone**, S. E. Aita, A. Arnoldi, A. L. Capriotti, C. Cavaliere, A. Cerrato, C. Lammi, S. Piovesana, G. Ranaldi, A. Laganà, *Characterization of the trans-epithelial transport of green tea (*C. sinensis*) catechin extracts with in vitro inhibitory effect against the sars-cov-2 papain-like protease activity*, *Molecules*, 26 (21), 2021, doi: 10.3390/molecules26216744 **(IF: 4.412)**

### **6- High-Resolution Mass Spectrometry and Chemometrics for the Detailed Characterization of Short Endogenous Peptides in Milk By-Products**

**C. M. Montone**, S. E. Aita, C. Cavaliere, A. Cerrato, A. Laganà, S. Piovesana, A. L. Capriotti, *High-Resolution Mass Spectrometry and Chemometrics for the Detailed Characterization of Short Endogenous Peptides in Milk By-Products*, *Molecules*, 26 (21), 6472, 2021, doi: 10.3390/molecules26216472 **(IF: 4.412)**

**7- Targeted and untargeted characterization of underivatized policosanols in hemp inflorescence by liquid chromatography-high resolution mass spectrometry**

**C. M. Montone**, S. E. Aita, G. Cannazza, C. Cavaliere, A. Cerrato, C. Citti, L. Mondello, S. Piovesna, A. Laganà, A. L. Capriotti, *Targeted and untargeted characterization of underivatized policosanols in hemp inflorescence by liquid chromatography-high resolution mass spectrometry*. *Talanta*, 235, 2021, doi: 10.1016/j.talanta.2021.122778 (IF: 6.057)

**8- Profiling and quantitative analysis of underivatized fatty acids in *Chlorella vulgaris* microalgae by liquid chromatography-high resolution mass spectrometry**

**C. M. Montone**, S.E.Aita, M. Catani, C. Cavaliere, A. Cerrato, S. Piovesana, A. Laganà, A. L. Capriotti, *Profiling and quantitative analysis of underivatized fatty acids in *Chlorella vulgaris* microalgae by liquid chromatography-high resolution mass spectrometry*, *Journal of Separation Science*, 2021, doi: 10.1002/jssc.202100306 (IF: 3.645)

**9- Recent applications of mass spectrometry for the characterization of cannabis and hemp phytocannabinoids: From targeted to untargeted analysis**

A. L. Capriotti, G. Cannazza, M. Catani, C. Cavaliere, A. Cavazzini, A. Cerrato, C. Citti, S. Felletti, **C. M. Montone**, S. Piovesna, A. Laganà, *Recent applications of mass spectrometry for the characterization of cannabis and hemp phytocannabinoids: From targeted to untargeted analysis*. *Journal of Chromatography A*, 2021, doi: 10.1016/j.chroma.2021.462492 (IF: 4.759)

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

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)

**11- Optimal centrifugal isolating of liposome–protein complexes from human plasma**

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)

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

S.E.Aita, Capriotti C. Cavaliere, A. Cerrato, B. Giannelli Moneta, **C. M. Montone**, S. Piovesana, A. Laganà, *Andean blueberry of the genus *disterigma*: A high-resolution mass spectrometric approach for the comprehensive characterization of phenolic compounds*, *Separations*, 8 (5), 58; 2021, doi: 10.3390/separations8050058 (IF: 2.777)

**13- Production and Characterization of Medium-Sized and Short Antioxidant Peptides from Soy Flour-Simulated Gastrointestinal Hydrolysate**

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)

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

A. Cerrato, C. Citti, G. Cannazza, A. L. Capriotti, C. Cavaliere, G. Grassi, F. Marini, **C. M. Montone**, R. Paris, S. Piovesana, A. Laganà, *Phytocannabinomics: Untargeted metabolomics as a tool for cannabis chemovar differentiation*, *Talanta*, 230, 2021, doi: 10.1016/j.talanta.2021.122313 (IF: 6.057)

**15- In-depth cannabis fatty acid profiling by ultra-high performance liquid chromatography coupled to high resolution mass spectrometry**

S. Piovesana, S.E.Aita, G. Cannazza, A. L. Capriotti, C. Cavaliere, A. Cerrato, P. Guarnaccia, **C. M. Montone**, A. Laganà, *In-depth cannabis fatty acid profiling by ultra-high performance liquid chromatography coupled to high resolution mass spectrometry*, *Talanta*, 228, 2021, doi: 10.1016/j.talanta.2021.122249 (IF: 6.057)

**16- Untargeted metabolomics of prostate cancer zwitterionic and positively charged compounds in urine**

A. Cerrato, C. Bedia, A. L. Capriotti, C. Cavaliere, V. Gentile, M. Maggi, **C. M. Montone**, S. Piovesana, A. Sciarra, R. Tauler, A. Laganà, *Untargeted metabolomics of prostate cancer zwitterionic and positively charged compounds in urine*, *Analytica Chimica Acta*, 1158, 2021, doi:10.1016/j.aca.2021.338381 (IF: 6.558)

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

C. Cavaliere, A. L. Capriotti, A. Cerrato, L. Lorini, **C. M. Montone**, F. Valentino, A. Laganà, M. Majone, *Identification and Quantification of Polycyclic Aromatic Hydrocarbons in Polyhydroxyalkanoates Produced from Mixed Microbial Cultures and Municipal Organic Wastes at Pilot Scale*, *Molecules*, 26(3), 539, 2021, doi: 10.3390/molecules26030539 (IF: 4.412)

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

A. Cerrato, S.E.Aita, C. Cavaliere, A. Laganà, **C. M. Montone**, S. Piovesana, R. Zenezini Chiozzi, A. L. Capriotti, *Comprehensive identification of native medium-sized and short bioactive peptides in sea bass muscle*, *Food Chemistry*, 343,1,2021, doi: 10.1016/j.foodchem.2020.128443 (IF: 7.514)

**19- Degradation of the polar lipid and fatty acid molecular species in extra virgin olive oil during storage based on shotgun lipidomics**

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)

**20- A rapid and innovative extraction and enrichment method for the metaproteomic characterization of dissolved organic matter in groundwater samples**

A. L. Capriotti, S.E.Aita, C. Cavaliere, A. Cerrato, **C. M. Montone**, S. Piovesana, A. Laganà, *A rapid and innovative extraction and enrichment method for the metaproteomic characterization of dissolved organic matter in groundwater samples*, Journal of Separation Science, 2020, doi: 10.1002/jssc.202001025 (IF: 3.645)

**21- Developments and pitfalls in the characterization of phenolic compounds in food: From targeted analysis to metabolomics-based approaches**

S. Piovesana, C. Cavaliere, A. Cerrato, **C. M. Montone**, A. Laganà, A. L. Capriotti, *Developments and pitfalls in the characterization of phenolic compounds in food: From targeted analysis to metabolomics-based approaches*, TrAC -Trends in Analytical Chemistry, 133, 2020, doi: 10.1016/j.trac.2020.116083 (IF: 12.296)

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

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)

**23- A new opening for the tricky untargeted investigation of natural and modified short peptides**

A. Cerrato, S.E.Aita, A. L. Capriotti, C. Cavaliere, **C. M. Montone**, A. Laganà, S. Piovesana, *A new opening for the tricky untargeted investigation of natural and modified short peptides*, Talanta, 2020, doi: 10.1016/j.talanta.2020.121262 (IF: 6.057)

**24- Improved identification of phytocannabinoids using a dedicated structure-based workflow**

**C. M. Montone**, A. Cerrato, B. Botta, G. Cannazza, A. L. Capriotti, C. Cavaliere, C. Citti, F. Ghirga, S. Piovesana, A. Laganà, *Improved identification of phytocannabinoids using a dedicated structure-based workflow*, Talanta, 2020, doi: 10.1016/j.talanta.2020.121310 (IF: 6.057)

**25- Untargeted Characterization of Chestnut (*Castanea sativa* Mill.) Shell Polyphenol Extract: A Valued Bioresource for Prostate Cancer Cell Growth Inhibition**

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)

**26- Development of a Sample Preparation Workflow for Sulfopeptide Enrichment: from Target Analysis to Challenges in Shotgun Sulfopeptomics**

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

**27- 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

B. Benedetti, M. Majone, C. Cavaliere, **C. M. Montone**, F. Fatone, N. Frisonc, A. Lagan, 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)

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

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)

### **29- Pitfalls in the analysis of phytocannabinoids in cannabis inflorescence**

C. Citti, F. Russo, S. Sgrò, A. Gallo, A. Zanutto, F. Forni, M. Vandelli, A. Laganà, **C. M. Montone**, G. Gigli, G. Cannazza, *Pitfalls in the analysis of phytocannabinoids in cannabis inflorescence*, *Analytical and Bioanalytical Chemistry* 2020, doi: 10.1007/s00216-020-02554-3 (IF: 4.157)

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

P. Linciano, C. Citti, L. Luongo, C. Belardo, S. Maione, M. A. Vandelli, F. Forni, G. Gigli, A. Lagana, **C. M. Montone**, G. Cannazza, *Isolation of a High-Affinity Cannabinoid for the Human CB1 Receptor from a Medicinal Cannabis sativa Variety: 9Tetrahydrocannabutol, the Butyl Homologue of 9Tetrahydrocannabinol*, *Journal of Natural Products*, 2020, 83, 1, 88–98 doi: 10.1021/acs.jnatprod.9b00876 (IF: 4.050)

### **31- 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**

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)

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

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)

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

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)

**34- Peptidomic approach for the identification of peptides with potential antioxidant and antihypertensive effects derived from Asparagus by-products**

C. M. Montone, R.Z. Chiozzi, N. Marchetti, A. Cerrato, M. Antonelli, A.L. Capriotti, C. Cavaliere, S. Piovesana, A. Laganà, *Peptidomic approach for the identification of peptides with potential antioxidant and antihypertensive effects derived from Asparagus by-products*, *Molecules* 2019, 24 (19), art. no. 3627, doi: 10.3390/molecules24193627 (IF: 4.412)

**35- Graphitized Carbon Black Enrichment and UHPLC-MS/MS Allow to Meet the Challenge of Small Chain Peptidomics in Urine**

S. Piovesana, A.L. Capriotti, A. Cerrato, C. Crescenzi, G. La Barbera, A. Laganà, C. M. Montone, C. Cavaliere, *Graphitized Carbon Black Enrichment and UHPLC-MS/MS Allow to Meet the Challenge of Small Chain Peptidomics in Urine*, *Analytical Chemistry*, 2019, 91 (17), pp. 11474-11481. doi: 10.1021/acs.analchem.9b03034 (IF: 6.986)

**36- A clean-up strategy for identification of circulating endogenous short peptides in human plasma by zwitterionic hydrophilic liquid chromatography and untargeted peptidomics identification**

S. Piovesana, A. Cerrato, M. Antonelli, B. Benedetti, A.L. Capriotti, C. Cavaliere, C. M. Montone, A. Laganà, *A cleanup strategy for identification of circulating endogenous short peptides in human plasma by zwitterionic hydrophilic liquid chromatography and untargeted peptidomics identification*, *Journal of Chromatography A*, 2019, art. no. 460699, doi: 10.1016/j.chroma.2019.460699 (IF: 4.759)

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

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)

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

S. Piovesana, A. L. Capriotti, P. Foglia, C. M. Montone, G. La Barbera, R. Zenezini Chiozzi, A. Laganà, C. Cavaliere, *Development of an analytical method for the metaproteomic investigation of bioaerosol from work environments*, *PROTEOMICS* 2019, 19 (23), art. no. 1900152, doi: 10.1002/pmic.201900152 (IF: 3.984)

**39- Enrichment procedure based on graphitized carbon black and liquid chromatography-high resolution mass spectrometry for elucidating sulfolipids composition of microalgae**

M. Antonelli, B. Benedetti, C. Cavaliere, A. Cerrato, G. La Barbera, C. M. Montone, S. Piovesana, A. Laganà *Enrichment procedure based on graphitized carbon black and liquid chromatography-high resolution mass spectrometry for elucidating sulfolipids composition of microalgae*, *Talanta* 2019, 205, art. no. 120162, doi: 10.1016/j.talanta. 2019.120162 (IF: 6.057)

**40- Identification of bioactive short peptides in cow milk by high performance liquid chromatography on C18 and porous graphitic carbon coupled to high resolution mass**

## spectrometry

**C. M. Montone**, A. L. Capriotti, A. Cerrato, M. Antonelli, G. La Barbera, S. Piovesana A. Laganà, C. Cavaliere, *Identification of bioactive short peptides in cow milk by high performance liquid chromatography on C18 and porous graphitic carbon coupled to high resolution mass spectrometry* Analytical and Bioanalytical Chemistry 2019, 411 (15) 3395-3404 doi: 10.1007/s00216-019-01815-0 (IF: 4.157)

### **41- A triple quadrupole and a hybrid quadrupole orbitrap mass spectrometer in comparison for polyphenols quantitation**

C. Cavaliere, M. Antonelli, A. L. Capriotti, G. La Barbera, **C. M. Montone**, S. Piovesana, A. Laganà, *A triple quadrupole and a hybrid quadrupole orbitrap mass spectrometer in comparison for polyphenols quantitation*, Journal of Agricultural and Food Chemistry 2019, 67 (17) 4885-4896 doi: 10.1021/acs.jafc.8b07163 (IF: 5.279)

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

**C. M. Montone**, M. Antonelli, A. L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, A. Laganà, *Investigation of free and conjugated seleno-amino acids in wheat bran by hydrophilic interaction liquid chromatography-tandem mass spectrometry* Journal of Separation Science 2019, 42 (10) 1938-1947 doi: 10.1002/jssc.201900047 (IF: 3.645)

### **43- Investigation of free seleno-amino acids in extra-virgin olive oil by mixed mode solid phase extraction cleanup and enantioselective hydrophilic interaction liquid chromatography-tandem mass spectrometry**

S. Piovesana, **C.M. Montone**, M. Antonelli, C. Cavaliere, G. La Barbera, S. Canepari, R. Samperi, A. Laganà, A.L. Capriotti, *Investigation of free seleno-amino acids in extra-virgin olive oil by mixed mode solid phase extraction cleanup and enantioselective hydrophilic interaction liquid chromatography-tandem mass spectrometry*, Food Chemistry 2019, 278 17-25 doi: 10.1016/j.foodchem.2018.11.053 (IF: 7.514)

### **44- Sensitive untargeted identification of short hydrophilic peptides by high performance liquid chromatography on porous graphitic carbon coupled to high resolution mass spectrometry**

S. Piovesana, **C.M. Montone**, C. Cavaliere, C. Crescenzi, G. La Barbera, A. Laganà, A.L. Capriotti, *Sensitive untargeted identification of short hydrophilic peptides by high performance liquid chromatography on porous graphitic carbon coupled to high resolution mass spectrometry*, Journal of Chromatography A 2019, 73-79 doi: 10.1016/j.chroma.2018.12.066 (IF: 4.759)

### **45- Recent Applications of Magnetic Solid-phase Extraction for Sample Preparation**

A.L. Capriotti, C. Cavaliere, G. La Barbera, **C.M. Montone**, S. Piovesana, A. Laganà, *Recent Applications of Magnetic Solid-phase Extraction for Sample Preparation*, Chromatographia 2019, 82, 8, 1251-1274 doi: 10.1007/s10337-019-03721-0 (IF: 2.044)

### **46- Peptides from Cauliflower By-Products, Obtained by an Efficient, Ecosustainable, and Semi-Industrial Method, Exert Protective Effects on Endothelial Function**

C. Caliceti, A.L. Capriotti, D. Calabria, F. Bonvicini, R. Zenezini Chiozzi, **C.M. Montone**, S. Piovesana, M. Zangheri, M. Mirasoli, P. Simoni, A. Laganà, A. Roda, *Peptides from Cauliflower By-Products, Obtained by an Efficient, Ecosustainable, and Semi-Industrial Method, Exert Protective Effects on*

*Endothelial Function*, Oxidative medicine and cellular longevity 2019, Article number 1046504 doi: 10.1155/2019/1046504 (IF: 6.543)

**47- Liquid chromatographic strategies for separation of bioactive compounds in food matrices**

C. Cavaliere, A.L. Capriotti, G. La Barbera, **C.M. Montone**, S. Piovesana, A. Laganà, *Liquid chromatographic strategies for separation of bioactive compounds in food matrices*, *Molecules* 2018, 23 (12) 27 doi: 10.3390/molecules23123091 (IF: 4.412)

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

G. La Barbera, M. Antonelli, C. Cavaliere, G. Cruciani, L. Goracci, **C.M. Montone**, S. Piovesana, A. Laganà, A.L. Capriotti, *Delving into the Polar Lipidome by Optimized Chromatographic Separation, High-Resolution Mass Spectrometry, and Comprehensive Identification with Lipostar: Microalgae as Case Study*, *Analytical Chemistry* 2018, 90 (20) 12230-12238 doi: 10.1021/acs.analchem.8b03482 (IF: 6.986)

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

C. Cavaliere, **C.M. Montone**, A.L. Capriotti, G. La Barbera, S. Piovesana, M. Rotatori, F. Valentino, A. Laganà, *Extraction of polycyclic aromatic hydrocarbons from polyhydroxyalkanoates before gas chromatography/mass spectrometry analysis*, *Talanta* 2018, 188 671-675 doi: 10.1016/j.talanta.2018.06.038 (IF: 6.057)

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

A.L. Capriotti, **C.M. Montone**, M. Antonelli, C. Cavaliere, G. La Barbera, F. Gasparrini, S. Piovesana, A. Laganà, *Simultaneous Preconcentration, Identification, and Quantitation of Selenoamino Acids in Oils by Enantioselective High Performance Liquid Chromatography and Mass Spectrometry*, *Analytical Chemistry* 2018, 90 (14) 8326-8330 doi:10.1021/acs.analchem.8b02089 (IF: 6.986)

**51- Peptidomic strategy for purification and identification of potential ACE-Inhibitory and antioxidant peptides in *Tetrademus obliquus* microalgae**

**C. M. Montone**, A. L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, R. Zenezini Chiozzi A. Laganà, *A Peptidomic strategy for purification and identification of potential ACE-Inhibitory and antioxidant peptides in *Tetrademus obliquus* microalgae*, *Analytical and Bioanalytical Chemistry* 2018, 410 (15) 3573-3586 doi: 10.1007/s00216-018-0925-x (IF: 4.157)

**52- Recent trends and analytical challenges in plant bioactive peptides separation, identification and validation**

S. Piovesana, A. L. Capriotti, C. Cavaliere, G. La Barbera, **C. M. Montone**, R. Zenezini Chiozzi A. Laganà, *Recent trends and analytical challenges in plant bioactive peptides separation, identification and validation*, *Analytical and Bioanalytical Chemistry* 2018, 410 (15) 2018, 3425- 3444 doi: 10.1007/s00216-018-0852-x (IF: 4.157)

**53- Saliva as a source of new phosphopeptide biomarkers: development of a comprehensive analytical method based on shotgun peptidomics**



G. La Barbera, A. L. Capriotti, C. Cavaliere, F. Ferraris, **C. M. Montone**, R. Zenezini Chiozzi, A. Laganà, *Saliva as a source of new phosphopeptide biomarkers: development of a comprehensive analytical method based on shotgun peptidomics*, *Talanta* 2018, 183 245-249 doi: 10.1016/j.talanta.2018.02.085 **(IF: 6.057)**

**54- Characterization of Antioxidant and Angiotensin-Converting Enzyme Inhibitory Peptides Derived from Cauliflower by-products by Multidimensional Liquid Chromatography and Bioinformatics**

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**55- 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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**56- Label free shotgun proteomics approach to characterize muscle tissue from farmed and wild European sea bass (*Dicentrarchus labrax*)**

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**58- 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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