

PUBBLICAZIONI

1. P. Linciano, C. Citti, L. Luongo, C. Belardo, S. Maione, M. A. Vandelli, F. Forni, G. Gigli, A. Laganà, **C. M. Montone**, G. Cannazza, *Isolation of a High-Affinity Cannabinoid for the Human CB1 Receptor from a Medicinal Cannabis sativa Variety: 9Tetrahydrocannabitol, the Butyl Homologue of 9Tetrahydrocannabinol*, Journal of Natural Products, 2020, doi: 10.1021/acs.jnatprod.9b00876
2. 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
3. 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
4. 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
5. **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
6. 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
7. S. Piovesana, A. Cerrato, M. Antonelli, B. Benedetti, A.L. Capriotti, C. Cavaliere, **C. M. Montone**, A. Laganà, *A clean-up 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
8. 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
 9. 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, 19 (23), art. no. 1900152, doi: 10.1002/pmic.201900152
 10. 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, 205, art. no. 120162, doi: 10.1016/j.talanta.2019.120162
 11. **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
 12. 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
 13. **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. 42 (10) 1938-1947 doi: 10.1002/jssc.201900047
 14. 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

15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. **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

23. 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
24. 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
25. **C. M. Montone**, A. L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, R. Zenezini Chiozzi, A. Laganà. *Characterization of Antioxidant and Angiotensin-Converting Enzyme Inhibitory Peptides Derived from Cauliflower by-products by Multidimensional Liquid Chromatography and Bioinformatics*, Journal of functional foods 2018, 44, 40-47 doi: 10.1016/j.jff.2018.02.022
26. A. L. Capriotti, C. Cavaliere, G. La Barbera, **C. M. Montone**, S. Piovesana, R. Zenezini Chiozzi, A. Laganà, *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*, Talanta 2018, 179 792-802 doi: 10.1016/j.talanta.2017.12.019
27. R. Zenezini Chiozzi, A. L. Capriotti, C. Cavaliere, G. La Barbera, **C. M. Montone**, S. Piovesana, A. Laganà *Label free shotgun proteomics approach to characterize muscle tissue from farmed and wild European sea bass (*Dicentrarchus labrax*)*, Food analytical methods 2018, 11 (1) 292- 301 doi: 10.1007/s12161-017-0999-7
28. G. La Barbera, A. L. Capriotti, C. Cavaliere, **C. M. Montone**, S. Piovesana, R. Samperi, R. Zenezini Chiozzi, A. Laganà *Liquid chromatography-high resolution mass spectrometry for the analysis of phytochemicals in vegetal-derived food and beverages*, Food Research International 2017, 100 28-52 doi: 10.1016/j.foodres.2017.07.080
29. G. La Barbera, A. L. Capriotti, C. Cavaliere, P. Foglia, **C. M. Montone**, R. Zenezini Chiozzi, A. Laganà *A rapid magnetic solid phase extraction method followed by liquid chromatography- tandem mass spectrometry analysis for the determination of mycotoxins in cereals*, Toxins 2017, 9(4), doi: 10.3390/toxins9040147