

PUBBLICAZIONI SU RIVISTE SCIENTIFICHE INTERNAZIONALI

- P1) C. Cavaliere, R. Curini, A. Di Corcia, M. Nazzari, R. Samperi. A simple and sensitive liquid chromatography-mass spectrometry confirmatory method for analyzing sulfonamide antibacterials in milk and egg. *J. Agric. Food Chem.* 51 (2003) 558-566. DOI:10.1021/jf020834w
- P2) A. Bacaloni, C. Cavaliere, A. Faberi, P. Foglia, R. Samperi, A. Laganà. Determination of isoflavones and coumestrol in river water and domestic waste water sewage treatment plants. *Anal. Chim. Acta* 531 (2005) 229-237. DOI:10.1016/j.aca.2004.10.037
- P3) C. Cavaliere, G. D'Ascenzo, P. Foglia, E. Pastorini, R. Samperi, A. Laganà. Determination of type B trichothecenes and macrocyclic lactone mycotoxin in field contaminated maize. *Food Chem.* 92 (2005) 559-568. DOI:10.1016/j.foodchem.2004.10.008
- P4) C. Cavaliere, P. Foglia, E. Pastorini, R. Samperi, A. Laganà. Development of a multiresidue method for analysis of major *Fusarium* mycotoxins in corn meal using liquid chromatography -tandem mass spectrometry. *Rapid Commun. Mass Spectrom.* 19 (2005) 2085-2093. DOI:10.1002/rcm.2030
- P5) A. Bacaloni, C. Cavaliere, A. Faberi, E. Pastorini, R. Samperi, A. Laganà. Automated On-line Solid-Phase Extraction-Liquid Chromatography-Electrospray Tandem Mass Spectrometry Method for the Determination of Ochratoxin A in Wine and Beer. *J. Agric. Food Chem.* 53 (2005) 5518-5525. DOI:10.1021/jf050254+
- P6) C. Cavaliere, P. Foglia, E. Pastorini, R. Samperi, A. Laganà. Identification and mass spectrometric characterization of glycosilated flavonoids in *Triticum durum* plants by High Performance Liquid Chromatography - Tandem Mass Spectrometry. *Rapid Commun. Mass Spectrom.* 19 (2005) 3143-3158. DOI:10.1002/rcm.2185
- P7) C. Cavaliere, P. Foglia, E. Pastorini, R. Samperi, A. Laganà. Liquid chromatography/tandem mass spectrometric confirmatory method for determining aflatoxin M1 in cow milk. Comparison between electrospray and atmospheric pressure photoionization sources. *J. Chromatogr. A* 1101 (2006) 69-78. DOI:10.1016/j.chroma.2005.09.060
- P8) C. Cavaliere, P. Foglia, C. Guarino, F. Marzoni, M. Nazzari, R. Samperi, A. Laganà. Aflatoxin M1 determination in Cheese by Liquid Chromatography-Tandem Mass Spectrometry. *J. Chromatogr. A* 1135 (2006) 135-141. DOI:10.1016/j.chroma.2006.07.048
- P9) A. Bacaloni, C. Cavaliere, A. Faberi, P. Foglia, A. Marino, R. Samperi, A. Laganà. Evaluation of the atmospheric pressure photoionization source for the determination of benzidines and chloroanilines in water and industrial effluents by high performance liquid chromatography-tandem mass spectrometry. *Talanta* 72 (2007) 419-426. DOI:10.1016/j.talanta.2006.10.043
- P10) C. Cavaliere, P. Foglia, C. Guarino, M. Nazzari, R. Samperi, A. Laganà. A sensitive confirmatory method for aflatoxins in maize based on liquid chromatography/ESI-tandem mass spectrometry. *Rapid Commun. Mass Spectrom.* 21 (2007) 550-556. DOI:10.1002/rcm.2873
- P11) A. Bacaloni, C. Cavaliere, P. Foglia, M. Nazzari, R. Samperi, A. Laganà. Liquid chromatography-tandem mass spectrometry determination of organophosphorus flame retardant and plasticizers in drinking and surface waters. *Rapid Commun. Mass Spectrom.* 21 (2007) 1123-1130. DOI:10.1002/rcm.2937
- P12) C. Cavaliere, P. Foglia, C. Guarino, M. Motto, M. Nazzari, R. Samperi, A. Laganà, N. Berardo. Mycotoxins produced by *Fusarium* genus in maize: determination by screening and confirmatory methods based on liquid chromatography tandem mass spectrometry. *Food Chem.* 105 (2007) 700-710. DOI:10.1016/j.foodchem.2006.12.057

- P13) C. Cavaliere, F. Cucci, P. Foglia, C. Guarino, R. Samperi, A. Laganà. Flavonoid profile in soybeans by High Performance Liquid Chromatography - Tandem Mass Spectrometry. *Rapid Commun. Mass Spectrom.* 21 (2007) 2177-2187. DOI:10.1002/rcm.3049
- P14) C. Cavaliere, P. Foglia, C. Guarino, M. Nazzari, R. Samperi, A. Laganà. Determination of aflatoxins in olive oil by liquid chromatography-tandem mass spectrometry. *Anal. Chim. Acta* 596 (2007) 141-148. DOI:10.1016/j.aca.2007.05.055
- P15) A. Bacaloni, C. Cavaliere, F. Cucci, P. Foglia, R. Samperi, A. Laganà. Determination of aflatoxins in hazelnuts by various sample preparation methods and liquid chromatography-tandem mass spectrometry. *J. Chromatogr. A* 1179 (2008) 182-189. DOI:10.1016/j.chroma.2007.11.081
- P16) C. Cavaliere, F. Cucci, C. Guarino, R. Gubbiotti, R. Samperi, A. Laganà. Absolute quantification of cardiac troponin T by means of liquid chromatography - triple quadrupole tandem mass spectrometry. *Rapid Commun. Mass Spectrom.* 22 (2008) 1159-1167. DOI:10.1002/rcm.3495
- P17) G. Caruso, C. Cavaliere, C. Guarino, R. Gubbiotti, P. Foglia, A. Laganà. Identification of changes in *Triticum durum* L. leaf proteome in response to salt stress by two-dimensional electrophoresis and MALDI-TOF mass spectrometry. *Anal. Bioanal. Chem.* 391 (2008) 381-390. DOI:10.1007/s00216-008-2008
- P18) M. Bizzarri, C. Cavaliere, P. Foglia, C. Guarino, R. Samperi, A. Laganà. A label free method, based on MALDI-TOF mass spectrometry, for absolute quantitation of troponin T in mouse cardiac tissue. *Anal. Bioanal. Chem.* 391 (2008) 1969-1976. DOI:10.1007/s00216-008-2113-x
- P19) C. Cavaliere, P. Foglia, R. Gubbiotti, P. Sacchetti, R. Samperi, A. Laganà. Rapid resolution liquid chromatography - mass spectrometry for determination and quantitation of polyphenols in grape berries. *Rapid Commun. Mass Spectrom.* 22 (2008) 3089-3099. DOI:10.1002/rcm.3705
- P20) G. Caruso, C. Cavaliere, P. Foglia, R. Gubbiotti, R. Samperi, A. Laganà. Analysis of drought responsive proteins in wheat (*Triticum durum*) by 2D-PAGE and MALDI-TOF mass spectrometry. *Plant Sci.* 177 (2009) 570-576. DOI:10.1016/j.plantsci.2009.08.007
- P21) G. Caracciolo, L. Callipo, S. Candeloro De Sanctis, C. Cavaliere, D. Pozzi, A. Laganà. Surface Adsorption of Protein Corona Controls the Cell Internalization Mechanism of DC-Chol-DOPE/DNA Lipoplexes in Serum. *Biochim. Biophys. Acta, Biomem.* 1798 (2010) 536-543. DOI:10.1016/j.bbamem.2009.11.007
- P22) A.L. Capriotti, C. Cavaliere, P. Giansanti, R. Gubbiotti, R. Samperi, A. Laganà. Recent developments in matrix solid-phase dispersion extraction. *J. Chromatogr. A* 1217 (2010) 2521-2532. DOI:10.1016/j.chroma.2010.01.030
- P23) C. Cavaliere, P. Foglia, F. Marini, R. Samperi, D. Antonacci, A. Laganà. The interactive effects of irrigation, nitrogen fertilization rate, delayed harvest and storage on polyphenol content in grape (*Vitis vinifera*) berry: a factorial experimental design. *Food Chem.* 122 (2010) 1176-1184. DOI:10.1016/j.foodchem.2010.03.112
- P24) A.R. Santamaria, D. Antonacci, G. Caruso, C. Cavaliere, R. Gubbiotti, A. Laganà, A. Valletta, G. Pasqua. Stilbene production in cell cultures of *Vitis vinifera* L. cv Red Globe and Michele Palieri elicited by methyl jasmonate. *Nat. Product Res.* 24 (2010) 1488-1498. DOI:10.1080/14786410903421446
- P25) L. Callipo, C. Cavaliere, V. Fuscoletti, R. Gubbiotti, R. Samperi, A. Laganà. Phenilpropanoate identification in young wheat plants by liquid chromatography/tandem mass spectrometry: monomeric and dimeric compounds. *J. Mass Spectrom.* 45 (2010) 1026-1040. DOI:10.1002/jms.1800

- P26) A.L. Capriotti, G. Caracciolo, G. Caruso, C. Cavaliere, D. Pozzi, R. Samperi, A. Laganà. Analysis of plasma protein adsorption onto DC-Chol-DOPE cationic liposomes by HPLC-CHIP coupled to a Q-TOF mass spectrometer. *Anal. Bioanal. Chem.* 398 (2010) 2895-2903. DOI:10.1007/s00216-010-4104-y
- P27) D. Pozzi, G. Caracciolo, C. Marchini, M. Montani, A. Amici, L. Callipo, A.L. Capriotti, C. Cavaliere, A. Laganà. Surface adsorption of protein corona controls the cell uptake mechanism in efficient cationic liposome/DNA complexes in serum (long abstract). *11th European Symposium on controlled drug delivery*, Egmond aan Zee (Olanda), 7-9 Aprile 2010. *J. Control. Release* 148 (2010) e94-e95. DOI:10.1016/j.jconrel.2010.07.069
- P28) L. Callipo, A.L. Capriotti, C. Cavaliere, R. Gubbio, R. Samperi, A. Laganà. Evaluation of different two-dimensional chromatographic techniques for proteomic analysis of mouse cardiac tissue. *Biomed. Chromatogr.* 25 (2011) 594-599. DOI:10.1002/bmc.1487
- P29) A.L. Capriotti, G. Caruso, C. Cavaliere, P. Foglia, M. Bizzarri, A. Laganà. Rapid resolution liquid chromatography/high resolution tandem mass spectrometry to characterize metabolic changes in subjects involved in MARS500 project. *Chromatographia* 73 (2011) S45-S53. DOI:10.1007/s10337-010-1880-7
- P30) A.L. Capriotti, G. Caracciolo, **C. Cavaliere***, C. Crescenzi, D. Pozzi, A. Laganà. Shotgun proteomics analytical approach for studying proteins adsorbed onto liposome surface. *Anal. Bioanal. Chem.* 401 (2011) 1195-1202. DOI:10.1007/s00216-011-5188-8
- P31) A.L. Capriotti, C. Cavaliere, P. Foglia, R. Samperi, A. Laganà. Intact protein separation by chromatographic and/or electrophoretic techniques for top-down proteomics. *J. Chromatogr. A* 1218 (2011) 8760-8776. DOI:10.1016/j.chroma.2011.05.094
- P32) M.A. Euterpio, C. Cavaliere, A.L. Capriotti, C. Crescenzi. Extending the applicability of pressurized hot water extraction to compounds exhibiting limited water solubility by pH control: Curcumin from the Turmeric rhizome. *Anal. Bioanal. Chem.* 401 (2011) 2977-2985. DOI:10.1007/s00216-011-5383-7
- P33) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, P. Foglia, H. Amenitsch, A. Laganà. Evolution of the protein corona of lipid gene vectors as a function of plasma concentration. *Langmuir* 27 (2011) 15048-15053. DOI:10.1021/la202912f
- P34) D. Trisciuglio, Y. Ragazzoni, A. Pelosi, M. Desideri, S. Carradori, C. Gabellini, G. Maresca, R. Nescatelli, D. Secci, A. Bolasco, B. Bizzarri, C. Cavaliere, I. D'Agnano, P. Filetici, L. Ricci-Vitiani, M.G. Rizzo, D. Del Bufalo. CPTH6, a thiazole-derivative, induces histone hypoacetylation and apoptosis in human leukemia cells. *Clin. Cancer Res.* 18 (2012) 475-486. PMID: 22068659; DOI:10.1158/1078-0432.CCR-11-0579
- P35) A.L. Capriotti, G. Caracciolo, **C. Cavaliere***, P. Foglia, D. Pozzi, R. Samperi, A. Laganà. Do plasma proteins distinguish between liposomes of varying charge density? *J. Proteomics* 75 (2012) 1924-1932. DOI:10.1016/j.jprot.2012.01.003
- P36) A.L. Capriotti, G. Caruso, C. Cavaliere, P. Foglia, R. Samperi, A. Laganà. Multiclass mycotoxin analysis in food, environmental and biological matrices by chromatography/mass spectrometry. *Mass Spectrom. Rev.* 31 (2012) 466-503. DOI:10.1002/mas.20351
- P37) A.L. Capriotti, G. Caruso, C. Cavaliere, S. Piovesana, R. Samperi, A. Laganà. Comparison of three different enrichment strategies for serum low molecular weight protein identification using shotgun proteomics approach. *Anal. Chim. Acta* 740 (2012) 58-65. DOI:10.1016/j.aca.2012.06.033

- P38) A.L. Capriotti, G. Caruso, C. Cavaliere, P. Foglia, R. Samperi, A. Laganà. Polyphenol Content in White Table Grape (*Vitis Vinifera*) Berries of Cultivar Italia. Interactive Effect of Irrigation, Delayed Harvest and Storage. *Nat. Product Res.* 26 (2012) 1787–1795. DOI:10.1080/14786419.2011.606623
- P39) A.L. Capriotti, **C. Cavaliere***, S. Piovesana, R. Samperi, A. Laganà. Multiclass screening method based on solvent extraction and liquid chromatography-tandem mass spectrometry for the determination of antimicrobials and mycotoxins in egg. *J. Chromatogr. A* 1268 (2012) 84-90. DOI:10.1016/j.chroma.2012.10.040
- P40) A.L. Capriotti, G. Caracciolo, G. Caruso, C. Cavaliere, D. Pozzi, R. Samperi, A. Laganà. Label-free quantitative analysis for studying the interactions between nanoparticles and plasma proteins. *Anal. Bioanal. Chem.* 405 (2013) 635-645. DOI:10.1007/s00216-011-5691-y
- P41) A.L. Capriotti, C. Cavaliere, A. Laganà, S. Piovesana, R. Samperi. Recent trends in matrix solid-phase dispersion. *TRAC-Trends Anal Chem.* 43 (2013) 53-66. DOI:10.1016/j.trac.2012.09.021
- P42) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, A. Laganà. Effect of DOPE and cholesterol on the protein adsorption onto lipid nanoparticles. *J. Nanopart. Res.* 15 (2013) 1498. DOI:10.1007/s11051-013-1498-4
- P43) A.L. Capriotti, G. Caruso, C. Cavaliere, S. Piovesana, R. Samperi, A. Laganà. Proteomic characterization of human platelet-derived microparticles. *Anal. Chim. Acta* 776 (2013) 57-63. DOI:10.1016/j.aca.2013.03.023
- P44) A.L. Barran Berdon, D. Pozzi, G. Caracciolo, A.L. Capriotti, G. Caruso, C. Cavaliere, A. Riccioli, S. Palchetti, A. Laganà. Time evolution of nanoparticle-protein corona in human plasma: Relevance for targeted drug delivery. *Langmuir* 29 (2013) 6485-6494. DOI:10.1021/la401192x
- P45) A.L. Capriotti, **C. Cavaliere***, V. Colapicchioni, S. Piovesana, R. Samperi, A. Laganà. Analytical strategies based on chromatography-mass spectrometry for the determination of estrogen-mimicking compounds in food. *J. Chromatogr. A* 1313 (2013) 62-77. DOI:10.1016/j.chroma.2013.06.054
- P46) A. Fercha, A.L. Capriotti, G. Caruso, C. Cavaliere, H. Gerroucha, R. Samperi, S. Stampachiacchiere, A. Laganà. Gel-free proteomics reveal potential biomarkers of priming-induced salt tolerance in durum wheat. *J. Proteomics* 91 (2013) 486-499. DOI:10.1016/j.jprot.2013.08.010
- P47) A.L. Capriotti, C. Cavaliere, P. Foglia, S. Piovesana, R. Samperi, S. Stampachiacchiere, A. Laganà. Proteomic Platform for Identification of olive (*Olea europaea*) pulp proteins. *Anal. Chim. Acta* 800 (2013) 36-42. DOI:10.1016/j.aca.2013.09.014
- P48) A.L. Capriotti, **C. Cavaliere***, A. Cavazzini, P. Foglia, A. Laganà, S. Piovesana, R. Samperi. High performance liquid chromatography tandem mass spectrometry determination of perfluorinated acids in cow milk. *J. Chromatogr. A* 1319 (2013) 72-79. DOI:10.1016/j.chroma.2013.10.029
- P49) A.L. Capriotti, G. Caruso, **C. Cavaliere***, P. Foglia, S. Piovesana, R. Samperi, A. Laganà. Proteome investigation of the non-model plant pomegranate (*Punica granatum L.*). *Anal. Bioanal. Chem.* 405 (2013) 9301-9309. DOI:10.1007/s00216-013-7382-3
- P50) G. Caracciolo, F. Cardarelli, D. Pozzi, F. Salomone, G. Maccari, G. Bardi, A.L. Capriotti, C. Cavaliere, M. Papi, A. Laganà. Selective Targeting Capability Acquired with a Protein Corona Adsorbed on the Surface of 1,2-Dioleoyl-3-trimethylammonium Propane/DNA Nanoparticles. *ACS Appl. Mater. Interfaces* 5 (2013) 13171-13179. DOI:10.1021/am404171h

- P51) M. Mohayjeji, A.L. Capriotti, C. Cavaliere, S. Piovesana, R. Samperi, S. Stampachiacchiere, M. Toorchi, A. Laganà. Heterosis profile of sunflower leaves: A label free proteomics approach. *J. Proteomics* 99 (2014) 101-110. DOI:10.1016/j.jprot.2014.01.028
- P52) A.L. Capriotti, C. Cavaliere, C. Crescenzi, P. Foglia, R. Nescatelli, R. Samperi, A. Laganà. Comparison of extraction methods for the identification and quantification of polyphenols in virgin olive oil by ultra-HPLC-QToF mass spectrometry. *Food Chem.* 158 (2014) 392-400. DOI:10.1016/j.foodchem.2014.02.130
- P53) A.L. Capriotti, C. Cavaliere, P. Foglia, R. Samperi, S. Stampachiacchiere, S. Ventura, A. Laganà. Multiclass analysis of mycotoxins in biscuits by high performance liquid chromatography-tandem mass spectrometry. Comparison of different extraction procedures. *J. Chromatogr. A* 1343 (2014) 69-78. DOI:10.1016/j.chroma.2014.04.009
- P54) A.L. Capriotti, G. Caracciolo, C. Cavaliere, V. Colapicchioni, S. Piovesana, D. Pozzi, A. Laganà. Analytical Methods for Characterizing the Nanoparticle-Protein Corona. *Chromatographia* 77 (2014) 755-769. DOI:10.1007/s10337-014-2677-x
- P55) A. Fercha, A.L. Capriotti, G. Caruso, C. Cavaliere, R. Samperi, S. Stampachiacchiere, A. Laganà. Comparative Analysis of Metabolic Proteome Variation in Ascorbate-Primed and Unprimed Wheat Seeds during Germination under Salt Stress. *J. Proteomics* 108 (2014) 238-257. DOI:10.1016/j.jprot.2014.04.040
- P56) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, S. Piovesana, G. La Barbera, A. Amici, A. Laganà. The liposome-protein corona in mice and humans and its implications for in vivo delivery. *J. Mat. Chem. B* 2 (2014) 7419-7428. DOI:10.1039/c4tb01316f
- P57) A.L. Capriotti, **C. Cavaliere***, S. Piovesana, R. Samperi, S. Stampachiacchiere, S. Ventura, A. Laganà. Multiresidue determination of UV filters in water samples by solid phase extraction and liquid chromatography-tandem mass spectrometry analysis. *J. Sep. Sci.* 37 (2014) 2882-2891. DOI:10.1002/jssc.201400708
- P58) D. Pozzi, G. Caracciolo, A.L. Capriotti, C. Cavaliere, S. Piovesana, V. Colapicchioni, S. Palchetti, A. Riccioli and A. Laganà. A proteomics-based methodology to investigate the protein corona effect for targeted drug delivery. *Mol. Biosys.* 10 (2014) 2815-2819. DOI:10.1039/c4mb00292j
- P59) A.L. Capriotti, G. Caruso, **C. Cavaliere***, R. Samperi, S. Stampachiacchiere, R. Zenezini Chiozzi, A. Laganà. Protein profile of mature soybean seeds and prepared soybean milk. *J. Agric. Food Chem.* 62 (2014) 9893-9899. DOI:10.1021/jf5034152
- P60) A.L. Capriotti, **C. Cavaliere***, P. Foglia, S. Piovesana, S. Ventura. Chromatographic Methods Coupled to Mass Spectrometry Detection for the Determination of Phenolic Acids in Plants and Fruits. *J. Liquid Chromatogr. Rel. Technol.* 38 (2015) 353-370. DOI:10.1080/10826076.2014.941263 [Review *su invito*, Guest Editor Prof. Victor David]
- P61) A.L. Capriotti, C. Cavaliere, P. Foglia, S. Piovesana, R. Samperi, R. Zenezini Chiozzi, A. Laganà. Development of an analytical strategy for the identification of potential bioactive peptides generated by in vitro tryptic digestion of fish muscle proteins. *Anal. Bioanal. Chem.* 407 (2015) 845-854. DOI:10.1007/s00216-014-8094-z
- P62) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, S. Piovesana, H. Amenitsch, A. Laganà. Lipid composition: A "key factor" for the rational manipulation of the liposome-protein corona by liposome design. *RSC Advances* 5 (2015) 5967-5975. DOI:10.1039/C4RA13335H
- P63) A.L. Capriotti, **C. Cavaliere***, P. Foglia, R. Samperi, S. Stampachiacchiere, S. Ventura, A. Laganà. Ultra-high-performance liquid chromatography-tandem mass spectrometry for the analysis of free and conjugated natural

estrogens in cow milk without deconjugation. *Anal. Bioanal. Chem.* 407 (2015) 1705-1719. DOI:10.1007/s00216-014-8398-z

- P64) S. Piovesana, A.L. Capriotti, C. Cavaliere, G. La Barbera, R. Samperi, R. Zenezini Chiozzi, A. Laganà. Peptidome characterization and bioactivity analysis of donkey milk. *J. Proteomics* 119 (2015) 21-29. DOI:10.1016/j.jprot.2015.01.020
- P65) D. Pozzi, G. Caracciolo, A.L. Capriotti, C. Cavaliere, G. La Barbera, T.J. Anchordoquy, A. Laganà. Surface chemistry and serum type both determine the nanoparticle-protein corona. *J. Proteomics* 119 (2015) 209-217. doi:10.1016/j.jprot.2015.02.009
- P66) A.L. Capriotti, **C. Cavaliere***, S. Piovesana, S. Stampachiaccchiere, S. Ventura, R. Zenezini Chiozzi, A. Laganà. Characterization of quinoa seed proteome combining different protein precipitation techniques: improvement of knowledge of non-model plant proteomics. *J. Sep. Sci.* 38 (2015) 1017-1025. DOI:10.1002/jssc.201401319
- P67) D. Pozzi, G. Caracciolo, L. Digiacomo, V. Colapicchioni, S. Palchetti, A.L. Capriotti, C. Cavaliere, R. Zenezini Chiozzi, A. Puglisi, A. Laganà. The biomolecular corona of nanoparticles in circulating biological media. *Nanoscale* 7 (2015) 13958-13966. DOI:10.1039/C5NR03701H
- P68) A.L. Capriotti, C. Cavaliere, P. Foglia, R. Samperi, S. Stampachiaccchiere, S. Ventura, A. Laganà. Recent advances and developments in matrix solid-phase dispersion. *TRAC-Trends Anal. Chem.* 71 (2015) 186-193. DOI:10.1016/j.trac.2015.03.012.
- P69) A.L. Capriotti, G. Caruso, **C. Cavaliere***, R. Samperi, S. Ventura, R. Zenezini Chiozzi, A. Laganà. Identification of potential bioactive peptides generated by simulated gastrointestinal digestion of soybean seeds and soy milk proteins. *J. Food Compos. Anal.* 44 (2015) 205-213. DOI:10.1016/j.jfca.2015.08.007
- P70) A.B. Serrano, A.L. Capriotti, **C. Cavaliere***, S. Piovesana, R. Samperi, S. Ventura, A. Laganà. Development of a rapid LC-MS/MS method for the determination of emerging Fusarium mycotoxins enniatins and beauvericin in human biological fluids. *Toxins* 7 (2015) 3554-3571. DOI:10.3390/toxins7093554
- P71) C. Cavaliere, A.L. Capriotti, P. Foglia, S. Piovesana, R. Samperi, S. Ventura, A. Laganà. Natural estrogens in dairy products: determination of free and conjugated forms by ultra-high-performance liquid chromatography - tandem mass spectrometry. *J. Sep. Sci.* 38 (2015) 3599-3606. DOI:10.1002/jssc.201500549
- P72) A.L. Capriotti, **C. Cavaliere***, S. Piovesana, S. Stampachiaccchiere, R. Samperi, S. Ventura, A. Laganà. Simultaneous Determination of Naturally Occurring Estrogens and Mycoestrogens in Milk by Ultrahigh-Performance Liquid Chromatography–Tandem Mass Spectrometry Analysis. *J. Agric. Food Chem.* 63 (2015) 8940-8946. DOI:10.1021/acs.jafc.5b02815
- P73) S. Piovesana, A.L. Capriotti, G. Caruso, C. Cavaliere, G. La Barbera, R. Zenezini Chiozzi, A. Laganà. Labeling and label free shotgun proteomics approaches to characterize muscle tissue from farmed and wild gilthead sea bream (*Sparus aurata*). *J. Chromatogr. A* 1428 (2016) 193-201. doi:10.1016/j.chroma.2015.07.049
- P74) S. Piovesana, A.L. Capriotti, C. Cavaliere, F. Ferraris, R. Samperi, S. Ventura, A. Laganà. Phosphopeptide enrichment: development of magnetic solid phase extraction method based on polydopamine coating and Ti⁴⁺-IMAC. *Anal. Chim. Acta* 909 (2016) 67-74. DOI:10.1016/j.aca.2016.01.008
- P75) A.L. Capriotti, C. Cavaliere, S. Piovesana, R. Samperi, A. Laganà. Recent trends in the analysis of bioactive peptides in milk and dairy products. *Anal. Bioanal. Chem.* 408 (2016) 2677-2685. DOI:10.1007/s00216-016-9303-8.

- P76) C. Cavaliere, A.L. Capriotti, F. Ferraris, P. Foglia, R. Samperi, S. Ventura, A. Laganà. Multiresidue analysis of endocrine-disrupting compounds and perfluorinated sulfates and carboxylic acids in sediments by ultra-high-performance liquid chromatography-tandem mass spectrometry. *J. Chromatogr. A* 1438 (2016) 133-142. DOI:10.1016/j.chroma.2016.02.022
- P77) A. Fercha, A.L. Capriotti, G. Caruso, **C. Cavaliere***, S. Stampachiaccchiere, R. Zenezini Chiozzi, A. Laganà. Shotgun proteomic analysis of embryonic axis of soybean seeds during germination under salt stress. *Proteomics* 16 (2016) 1537-1546. DOI:10.1002/pmic.201500283
- P78) A.L. Capriotti, **C. Cavaliere***, G. La Barbera, S. Piovesana, R. Samperi, R. Zenezini Chiozzi, A. Laganà. Polydopamine coated magnetic nanoparticles for isolation and enrichment of estrogenic compounds from surface water samples followed by liquid chromatography-tandem mass spectrometry determination. *Anal. Bioanal. Chem.* 408 (2016) 4011-4020. DOI:10.1007/s00216-016-9489-9.
- P79) R. Zenezini Chiozzi, A.L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, R. Samperi, A. Laganà. Purification and identification of endogenous antioxidant and ACE-inhibitory peptides from donkey milk by multidimensional liquid chromatography and nanoHPLC-high resolution mass spectrometry. *Anal. Bioanal. Chem.* 408 (2016) 5657-5666. DOI:10.1007/s00216-016-9672-z
- P80) R. Zenezini Chiozzi, A.L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, A. Laganà. Identification of three novel Angiotensin Converting Enzyme Inhibitory Peptides Derived from cauliflower by-products by multidimensional liquid chromatography and bioinformatics. *J. Functional Foods* 27 (2016) 262-273. DOI:10.1016/j.jff.2016.09.010.
- P81) A.L. Capriotti, **C. Cavaliere***, P. Foglia, G. La Barbera, R. Samperi, S. Ventura, A. Laganà. Mycoestrogen determination in cow milk: magnetic solid phase extraction followed by liquid chromatography-tandem mass spectrometry analysis. *J. Sep. Sci.* 39 (2016) 4794-4804. DOI:10.1002/jssc.201600879
- P82) S. Piovesana, A.L. Capriotti, C. Cavaliere, F. Ferraris, D. Iglesias, S. Marchesan, A. Laganà. New magnetic graphitized carbon black TiO₂ composite for phosphopeptide selective enrichment in shotgun phosphoproteomics. *Anal. Chem.* 88 (2016) 12043-12050. DOI: 10.1021/acs.analchem.6b02345.
- P83) G. La Barbera, A.L. Capriotti, **C. Cavaliere***, S. Piovesana, R. Samperi, R. Zenezini Chiozzi, A. Laganà. Comprehensive polyphenol profiling of a strawberry extract by ultra high performance liquid chromatography coupled to high resolution mass spectrometry. *Anal. Bioanal. Chem.* 409 (2017) 2127-2142. DOI: 10.1007/s00216-016-0159-8.
- P84) A.L. Capriotti, **C. Cavaliere***, A. Cavazzini, F. Gasparrini, G. Pierri, S. Piovesana, A. Laganà. A multidimensional liquid chromatography-tandem mass spectrometry platform to improve protein identification in high-throughput shotgun proteomics. *J. Chromatogr. A* 1498 (2017) 176-182. DOI: 10.1016/j.chroma.2017.03.032
- P85) M. Martínez-Negro, G. Caracciolo, S. Palchetti, D. Pozzi, A.L. Capriotti, C. Cavaliere, A. Laganà, C. Ortiz Mellet, J.M. Benito, J.M. García Fernández, E. Aicart, E. Junquera. Biophysics and protein corona analysis of Janus cyclodextrin-DNA nanocomplexes. Efficient cellular transfection on cancer cells. *Biochim. Biophys. Acta. BBA-General Subjects* 1861 (2017) 1737-1749. DOI:10.1016/j.bbagen.2017.03.010
- P86) R. Zenezini Chiozzi, A.L. Capriotti, C. Cavaliere, F. Ferraris, G. La Barbera, S. Piovesana, A. Laganà. Evaluation of column length and particle size effect on the untargeted profiling of a phytochemical mixture by means of ultra-high performance liquid chromatography coupled to high resolution mass spectrometry. *J. Sep. Sci.* 40 (2017) 2541-2557. DOI:10.1002/jssc.201700135

- P87) S. Piovesana, A.L. Capriotti, C. Cavaliere, G. La Barbera, R. Samperi, R. Zenezini Chiozzi, A. Laganà. A new carbon-based magnetic material for the dispersive solid phase extraction of UV filters from water samples before liquid chromatography-tandem mass spectrometry analysis. *Anal. Bioanal. Chem.* 409 (2017) 4181-4194. DOI:10.1007/s00216-017-0368-9
- P88) 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* 9 (2017) 147. DOI:10.3390/toxins9040147
- P89) 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 Res. Int.* 100 (2017) 28-52. DOI:10.1016/j.foodres.2017.07.080
- P90) 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 Anal. Methods.* 11 (2018) 292-301. DOI: 10.1007/s12161-017-0999-7.
- P91) A.L. Capriotti, C. Cavaliere, F. Ferraris, V. Gianotti, M. Laus, S. Piovesana, K. Sparnacci, R. Zenezini Chiozzi, A. Laganà. New Ti-IMAC magnetic polymeric nanoparticles for phosphopeptide enrichment from complex real samples. *Talanta* 178 (2018) 274-281. DOI:10.1016/j.talanta.2017.09.010.
- P92) 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* 179 (2018) 792-802. DOI: 10.1016/j.talanta.2017.12.019.
- P93) G. La Barbera, A.L. Capriotti, C. Cavaliere, F. Ferraris, M. Laus, S. Piovesana, K. Sparnacci, A. Laganà. Development of an enrichment method for endogenous phosphopeptide characterization in human serum. *Anal. Bioanal. Chem.* 410 (2018) 1177-1185. DOI:10.1007/s00216-017-0822-8
- P94) 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. *Anal. Bioanal. Chem.* 410 (2018) 3425-3444. DOI:10.1007/s00216-018-0852-x
- P95) C.M. Montone, A.L. Capriotti, C. Cavaliere, G. La Barbera, S. Piovesana, R. Zenezini Chiozzi, A. Laganà. Peptidomic strategy for purification and identification of potential ACE-Inhibitory and antioxidant peptides in *Tetrademus obliquus* microalgae. *Anal. Bioanal. Chem.* 410 (2018) 3573-3586. DOI: 10.1007/s00216-018-0925-x
- P96) 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* 183 (2018) 245-249. DOI: 10.1016/j.talanta.2018.02.085
- P97) 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. *J. Funct. Foods* 44 (2018) 40-47. DOI: 10.1016/j.jff.2018.02.022
- P98) 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* 188 (2018) 671-675. DOI: 10.1016/j.talanta.2018.06.038

- P99) A.L. Capriotti, C.M. Montone, M. Antonelli, C. Cavaliere, F. Gasparrini, G. La Barbera, S. Piovesana, A. Laganà. Simultaneous preconcentration, identification and quantitation of selenoamino acids in oils by enantioselective high performance liquid chromatography and mass spectrometry. *Anal. Chem.* 90 (2018) 8326-8330. DOI: 10.1021/acs.analchem.8b02089
- P100) 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. *Anal. Chem.* 90 (2018) 12230–12238. DOI: 10.1021/acs.analchem.8b03482
- P101) 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* 23 (2018) art. no. 3091. DOI: 10.3390/molecules23123091
- P102) 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 Chem.* 278 (2019) 17-25. DOI: 10.1016/j.foodchem.2018.11.053
- P103) 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. *J. Chromatogr. A* 1590 (2019) 73-79. DOI: [10.1016/j.chroma.2018.12.066](https://doi.org/10.1016/j.chroma.2018.12.066)
- P104) 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 Polyphenol Quantitation. *J. Agric. Food Chem.* 67 (2019) 4885-4896. DOI: 10.1021/acs.jafc.8b07163
- P105) 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. *Anal. Bioanal. Chem.* 411 (2019) 3395–3404. DOI: 10.1007/s00216-019-01815-0
- P106) 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. *J. Sep. Sci.* 42 (2019) 1938-1947. DOI: 10.1002/jssc.201900047
- P107) A.L. Capriotti, C. Cavaliere, S. Piovesana. Liposome protein corona characterization as a new approach in nanomedicine. *Anal. Bioanal. Chem.* 411 (2019) 4313-4326. DOI: 10.1007/s00216-019-01656-x
- P108) 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* 82 (2019) 1251–1274. DOI: 10.1007/s10337-019-03721-0
- P109) 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. *Anal. Chem.* 91 (2019) 11474-11481. DOI: 10.1021/acs.analchem.9b03034.

- P110) C. Cavaliere, M. Antonelli, A. Cerrato, G. La Barbera, A. Laganà, M. Laus, S. Piovesana, A.L. Capriotti. A novel magnetic molecular imprinted polymer for selective extraction of zearalenone from cereal flours before liquid chromatography-tandem mass spectrometry determination. *Toxins* 11 (2019) 493. DOI: 10.3390/toxins11090493
- P111) M. Antonelli, B. Benedetti, **C. Cavaliere***, 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 (2019), in stampa. DOI: 10.1016/j.talanta.2019.120162
- P112) 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) in stampa. DOI: [10.1002/pmic.201900152](https://doi.org/10.1002/pmic.201900152).
- P113) C.M. Montone, R. Zenezini 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 anti-hypertensive effects derived from asparagus by-products. *Molecules* 24 (2019) 3627. DOI: 10.3390/molecules24193627
- P114) A.L. Capriotti, M. Antonelli, D. Antonioli, C. Cavaliere, R. Chiarcos, V. Gianotti, S. Piovesana, K. Sparnacci, M. Laus, A. Laganà. Effect of shell structure of Ti-immobilized metal ion affinity chromatography core-shell magnetic particles for phosphopeptide enrichment. *Scientific Reports* 9 (2019) art. n. 15782. DOI: 10.1038/s41598-019-51995-z
- P115) G. La Barbera, A.L. Capriotti, G. Caracciolo, C. Cavaliere, 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* in stampa. DOI: 10.1016/j.talanta.2019.120487
- P116) M. Antonelli, B. Benedetti, **C. Cavaliere***, A. Cerrato, C.M. Montone, S. Piovesana, A. Laganà, A.L. Capriotti. 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 Chem.* in stampa. DOI: 10.1016/j.foodchem.2019.125860
- P117) S. Piovesana, A. Cerrato, M. Antonelli, B. Benedetti, 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. *J. Chromatogr. A*, in stampa. DOI: [10.1016/j.chroma.2019.460699](https://doi.org/10.1016/j.chroma.2019.460699)
- P118) A. Cerrato, G. Cannazza, A.L. Capriotti, C. Citti, 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*, in stampa. DOI: 10.1016/j.talanta.2019.120573

EDITORIALI

- E1) A. Laganà, C. Cavaliere. High-resolution mass spectrometry in food and environmental analysis. *Anal. Bioanal. Chem.* 407 (2015) 6235-6236. DOI:10.1007/s00216-015-8837-5.
- E2) A.L. Capriotti, C. Cavaliere, A. Laganà. Discovery of bioactive compounds. *Anal. Bioanal. Chem.* 410 (2018) 3405-3406. DOI:10.1007/s00216-018-1024-8

CAPITOLI DI LIBRI DI RICERCA

- C1) C. Cavaliere, P. Foglia, R. Samperi, A. Laganà. Determination of aflatoxins and ochratoxin A in olive oil, in: "Olives and Olive Oil in Health and Disease Prevention". Eds. Victor R. Preedy and Ronald Ross Watson, Academic Press, Oxford 2010, chapter 69, pp. 645-652. ISBN: 978-0-12-374420-3. DOI:10.1016/B978-0-12-374420-3.00069-3
- C2) C. Cavaliere, E. Corradini, P. Foglia, R. Gubbiotti, R. Samperi, A. Laganà. From metabolic profiling to metabolomics: fifty years of instrumental and methodological improvements, in: "Metabolomics Metabolites Metabonomics and Analytical Technologies". Eds. J.S. Knapp and W.L. Cabrera, Nova Science Publisher 2011, pp. 121-161. ISBN: 978-1-61668-006-0.
- C3) C. Cavaliere, E. Corradini, P. Foglia, P. Giansanti, R. Samperi, A. Laganà. Multidimensional chromatography: an essential tool for proteomics, in: "Proteomics: Methods, Applications and Limitations". Ed. Giselle C. Rancourt, Nova Science Publisher 2011, chapter 9, pp. 165-174. ISBN: 978-1-61668-691-8.
- C4) R. Samperi, A.L. Capriotti, C. Cavaliere, V. Colapicchioni, R. Zenezini Chiozzi, A. Laganà. Food proteins and peptides, in: "Advanced Mass Spectrometry for Food Safety and Quality". Comprehensive Analytical Chemistry 68 (2015) 309-357. Ed. Y. Picò, Elsevier 2015, chapter 6. ISBN: 9780444633408. doi:10.1016/B978-0-444-63340-8.00006-6

PROCEEDINGS

- L1) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, F. Cardarelli, A. Bifone, G. Bardi, F. Salomone, A. Laganà, A. Cancer cell targeting of lipid gene vectors by protein corona. *Technical Proceedings of the 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012*, (2012) 354-357. ISBN: 978-146656276-9
- L2) G. Caracciolo, D. Pozzi, A.L. Capriotti, C. Cavaliere, F. Cardarelli, F. Salomone, A. Laganà, A. Exploiting the "protein corona effect" for targeted drug and gene delivery. *Technical Proceedings of the 2013 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2013*, 3 (2013) 247-250. ISBN: 978-148220586-2
- L3) L. Lovato, C. Neri, V. Marzano, G. Novi, S. Levi Mortera, C. Cavaliere, A.L. Capriotti, L. Pieroni, N. Kerlero De Rosbo, A. Urbani, A. Uccelli. Analysis of the interferon gamma modulated pathways related to the therapeutic plasticity of bone marrow-derived mesenchymal stem cells through a SILAC-based proteomic approach. 12th International Congress of Neuroimmunology (ISNI), *J. Neuroimmunol.* 275 (2014) 191-192. DOI: 10.1016/j.jneuroim.2014.08.516
- L4) L. Lovato, C. Neri, V. Marzano, G. Novi, S. Levi Mortera, C. Cavaliere, A.L. Capriotti, L. Pieroni, N. Kerlero De Rosbo, A. Urbani, A. Uccelli. Analysis of the IFN gamma-modulated pathways related to the therapeutic plasticity of bone-marrow derived mesenchymal stem cells through a SILAC-based proteomic approach. *J. Tissue Eng. Regen. Med.* 8 (2014) 280-280.