

Chiara D'Ambrosio



Researcher

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Education and Professional Experience

2008: Researcher

2002-2008: Research Fellows at ISPAAM-CNR, Napoli.

2001: Second level Degree in Chemistry, University of Napoli, Italy.

Keywords

Proteomics, Mass Spectrometry

Bio-agricultural Proteomics

Selected publications (max 20)

1. Aquilano K, Sciarretta F, Turchi R, Li BH, Rosina M, Ceci V, Guidobaldi G, Arena S, **D'Ambrosio C**, Audano M, Salvatori I, Colella B, Faraonio R, Panebianco C, Paziienza V, Caruso D, Mitro N, Di Bartolomeo S, Scaloni

- A, Li JY, Lettieri-Barbato D. Low-protein/high-carbohydrate diet induces AMPK-dependent canonical and non-canonical thermogenesis in subcutaneous adipose tissue. *Redox Biol.* 2020 Sep;36:101633. doi: 10.1016/j.redox.2020.101633.
2. Monica Matuozzo, Maria Stefania Spagnuolo, Hany A Hussein, A M Gomaa, Andrea Scaloni, **Chiara D'Ambrosio**. Novel Biomarkers of Mastitis in Goat Milk Revealed by MALDI-TOF-MS-Based Peptide Profiling. *Biology(Basel)* 2020 Jul 28;9(8):193
 3. Lirussi L, Antoniali G, Scognamiglio PL, Marasco D, Dalla E, **D'Ambrosio C**, Arena S, Scaloni A, Tell G. Cleavage of the APE1 N-Terminal Domain in Acute Myeloid Leukemia Cells Is Associated with Proteasomal Activity. *Biomolecules.* 2020 Mar 31;10(4):531. doi: 10.3390/biom10040531.
 4. Vita F, Giuntoli B, Bertolini E, Taiti C, Marone E, **D'Ambrosio C**, Trovato E, Sciarrone D, Zoccali M, Balestrini R, Scaloni A, Mondello L, Mancuso S, Alessio M, Alpi A. Tuberomics: a molecular profiling for the adaption of edible fungi (*Tuber magnatum* Pico) to different natural environments. *BMC Genomics.* 2020 Jan 29;21(1):90. doi: 10.1186/s12864-020-6522-3.
 5. Ayyildiz D, Antoniali G, **D'Ambrosio C**, Mangiapane G, Dalla E, Scaloni A, Tell G, Piazza S. Architecture of The Human Ape1 Interactome Defines Novel Cancers Signatures. *Sci Rep.* 2020 Jan 8;10(1):28. doi: 10.1038/s41598-019-56981-z.
 6. Visconti S, **D'Ambrosio C**, Fiorillo A, Arena S, Muzi C, Zottini M, Aducci P, Marra M, Scaloni A, Camoni L. Overexpression of 14-3-3 proteins enhances cold tolerance and increases levels of stress-responsive proteins of Arabidopsis plants. *Plant Sci.* 2019 Dec;289:110215. doi: 10.1016/j.plantsci.2019.110215.
 7. Buttarelli M, Babini G, Raspaglio G, Filippetti F, Battaglia A, Ciucci A, Ferrandina G, Petrillo M, Marino C, Mancuso M, Saran A, Villani ME, Desiderio A,

D'Ambrosio C, Scaloni A, Scambia G, Gallo D. A combined ANXA2-NDRG1-STAT1 gene signature predicts response to chemoradiotherapy in cervical cancer. *J Exp Clin Cancer Res.* 2019 Jun 26;38(1):279. doi: 10.1186/s13046-019-1268-y.

8. Allocca S, Ciano M, Ciardulli MC, **D'Ambrosio C**, Scaloni A, Sarnataro D, Caporaso MG, D'Agostino M, Bonatti S. An α B-Crystallin Peptide Rescues Compartmentalization and Trafficking Response to Cu Overload of ATP7B-H1069Q, the Most Frequent Cause of Wilson Disease in the Caucasian Population. *Int J Mol Sci.* 2018 Jun 27;19(7):1892. doi: 10.3390/ijms19071892.
9. Antoniali G, Serra F, Lirussi L, Tanaka M, **D'Ambrosio C**, Zhang S, Radovic S, Dalla E, Ciani Y, Scaloni A, Li M, Piazza S, Tell G. Mammalian APE1 controls miRNA processing and its interactome is linked to cancer RNA metabolism. *Nat Commun.* 2017 Oct 6;8(1):797. doi: 10.1038/s41467-017-00842-8.
10. Arena S, **D'Ambrosio C**, Vitale M, Mazzeo F, Mamone G, Di Stasio L, Maccaferri M, Curci PL, Sonnante G, Zambrano N, Scaloni A. Differential representation of albumins and globulins during grain development in durum wheat and its possible functional consequences. *J Proteomics.* 2017 Jun 6;162:86-98. doi: 10.1016/j.jprot.2017.05.004.
11. Bruschi M, Candiano G, Santucci L, **D'Ambrosio C**, Scaloni A, Bonsano M, Ghiggeri GM, Verrina E. Combinatorial Peptide Ligand Library and two dimensional electrophoresis: new frontiers in the study of peritoneal dialysis effluent in pediatric patients. *J Proteomics.* 2015 Feb 26;116:68-80. doi: 10.1016/j.jprot.2015.01.003.
12. Succoio M, Comegna M, **D'Ambrosio C**, Scaloni A, Cimino F, Faraonio R. Proteomic analysis reveals novel common genes modulated in both replicative and stress-induced senescence. *J Proteomics.* 2015 Oct 14;128:18-29. doi: 10.1016/j.jprot.2015.07.010.
13. Santucci L, Candiano G, Anglani F, Bruschi M, Tosetto E,

Cremasco D, Murer L, **D'Ambrosio C**, Scaloni A, Petretto A, Caridi G, Rossi R, Bonanni A, Ghiggeri GM. Urine proteome analysis in Dent's disease shows high selective changes potentially involved in chronic renal damage. *J Proteomics*. 2015 Sep 11.

14. Succoio M, Comegna M, **D'Ambrosio C**, Scaloni A, Cimino F, Faraonio R. Proteomic analysis reveals novel common genes mediating both replicative and stress-induced senescence. *J Proteomics*. 2015 Jul 20.
15. Bruschi M, Candiano G, Santucci L, **D'Ambrosio C**, Scaloni A, Bonsano M, Ghiggeri GM, Verrina E. Combinatorial Peptide Ligand Library and two dimensional electrophoresis: new frontiers in the study of peritoneal dialysis effluent in pediatric patients. *J Proteomics*. 2015 Feb 26;116:68-80.
16. Salzano, A.M., Pauciullo, A., **D'Ambrosio, C.**, Novi, G., Strazzullo, M., Scaloni, A. Bovine hemoglobin polymorphism: A novel alpha-globin variant identified in the Agerolese breed from southern Italy. *Czech Journal of Animal Science* 2015; 60, (4): 145-151
17. Mastrogiacomo R, **D'Ambrosio C**, Niccolini A, Serra A, Gazzano A, Scaloni A, Pelosi P. An odorant-binding protein is abundantly expressed in the nose and in the seminal fluid of the rabbit. *PLoS One*. 2014 Nov 12;9(11).
18. Comegna M, Succoio M, Napolitano M, Vitale M, **D'Ambrosio C**, Scaloni A, Passaro F, Zambrano N, Cimino F, Faraonio R. Identification of miR-494 direct targets involved in senescence of human diploid fibroblasts. *FASEB J*. 2014 Aug;28(8):3720-33.
19. Bruschi M, Sinico RA, Moroni G, Pratesi F, Migliorini P, Galetti M, Murtas C, Tincani A, Madaio M, Radice A, Franceschini F, Trezzi B, Bianchi L, Giallongo A, Gatti R, Tardanico R, Scaloni A, **D'Ambrosio C**, Carnevali ML, Messa P, Ravani P, Barbano G, Bianco B, Bonanni A, Scolari F, Martini A, Candiano G, Allegri L, Ghiggeri GM. Glomerular autoimmune multicomponents of human lupus

nephritis in vivo: α -enolase and annexin AI. J Am Soc Nephrol. 2014 Nov;25(11):2483-98.

20. Antoniali G, Lirussi L, **D'Ambrosio C**, Dal Piaz F, Vascotto C, Casarano E, Marasco D, Scaloni A, Fogolari F, Tell G. SIRT1 gene expression upon genotoxic damage is regulated by APE1 through nCaRE-promoter elements. Mol Biol Cell. 2014 Feb;25(4):532-47.
21. Arena S, Salzano AM, Renzone G, **D'Ambrosio C**, Scaloni A. Non-enzymatic glycation and glycoxidation protein products in foods and diseases: an interconnected, complex scenario fully open to innovative proteomic studies. Mass Spectrom Rev. 2014 Jan-Feb;33(1):49-77.