

Giovanni Renzone

Researcher (permanent position)

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Education and Professional Experience

January 2014-to date: Researcher (permanent position) at ISPAAM-CNR, Napoli.

October 2012-december 2013: Technician (permanent position) at ISPAAM-CNR, Napoli.

January 2011-september 2012: Research Fellow at University of Palermo, Palermo.

September 2006-december 2010: Research Fellow at ISPAAM-CNR, Napoli.

January 2006-july 2006: Research Fellow at University of Udine, Udine.

July 2003-december 2005: Research Fellow at ISPAAM-CNR, Napoli.

May 2002-april 2003: Research Fellow at ISA-CNR, Avellino.

2002: Degree in Chemistry, University of Naples, Italy.

Keywords

Agri-Food Proteomics, Mass Spectrometry, Liquid Chromatography, Post-translational modifications

Selected publications (max 20)

1. Vassallo A, Palazzotto E, **Renzone G**, Botta L, Faddetta T, Scaloni A, Puglia

- AM, Gallo G. The *Streptomyces coelicolor* Small ORF *trpM* Stimulates Growth and Morphological Development and Exerts Opposite Effects on Actinorhodin and Calcium-Dependent Antibiotic Production. *Front Microbiol.* 2020 Feb 19;11:224. doi: 10.3389/fmicb.2020.00224.
2. Arena S, **Renzone G**, Scaloni A. A multi-approach peptidomic analysis of hen egg white reveals novel putative bioactive molecules. *J Proteomics.* 2020 Mar 20;215:103646. doi: 10.1016/j.jprot.2020.103646.
 3. Chiaradia E, Pepe M, Orvietani PL, **Renzone G**, Magini A, Sforza M, Emiliani C, Di Meo A, Scaloni A. Proteome Alterations in Equine Osteochondrotic Chondrocytes. *Int J Mol Sci.* 2019 Dec 7;20(24):6179. doi: 10.3390/ijms20246179.
 4. Lebrun M, De Zio E, Miard F, Scippa GS, **Renzone G**, Scaloni A, Bourgerie S, Morabito D, Trupiano D. Amending an As/Pb contaminated soil with biochar, compost and iron grit: effect on *Salix viminalis* growth, root proteome profiles and metal(loid) accumulation indexes. *Chemosphere.* 2020 Apr;244:125397. doi: 10.1016/j.chemosphere.2019.125397.
 5. Barracco V, Moschini R, **Renzone G**, Cappiello M, Balestri F, Scaloni A, Mura U, Del-Corso A. Dehydrogenase/reductase activity of human carbonyl reductase 1 with NADP(H) acting as a prosthetic group. *Biochem Biophys Res Commun.* 2020 Jan 29;522(1):259-263. doi: 10.1016/j.bbrc.2019.11.090.
 6. Balestri F, Barracco V, **Renzone G**, Tuccinardi T, Pomelli CS, Cappiello M, Lessi M, Rotondo R, Bellina F, Scaloni A, Mura U, Del Corso A, Moschini R. Stereoselectivity of Aldose Reductase in the Reduction of Glutathionyl-Hydroxynonanal Adduct. *Antioxidants (Basel).* 2019 Oct 22;8(10):502. doi: 10.3390/antiox8100502.
 7. Chiaradia E, **Renzone G**, Scaloni A, Caputo M, Costanzi E, Gambelunghe A, Muzi G, Avellini L, Emiliani C, Buratta S. Protein carbonylation in dopaminergic cells exposed to rotenone. *Toxicol Lett.* 2019 Jul;309:20-32. doi: 10.1016/j.toxlet.2019.04.002.
 8. Salzano AM, **Renzone G**, Sobolev AP, Carbone V, Petriccione M, Capitani D, Vitale M, Novi G, Zambrano N, Pasquariello MS, Mannina L, Scaloni A. Unveiling Kiwifruit Metabolite and Protein Changes in the Course of Postharvest Cold Storage. *Front Plant Sci.* 2019 Feb 4;10:71. doi: 10.3389/fpls.2019.00071.
 9. Faddetta T, Abbate L, **Renzone G**, Palumbo Piccionello A, Maggio A, Oddo E, Scaloni A, Puglia AM, Gallo G, Carimi F, Fatta Del Bosco S, Mercati F. An integrated proteomic and metabolomic study to evaluate the effect of

nucleus- cytoplasm interaction in a diploid citrus cybrid between sweet orange and lemon. *Plant Mol Biol*. 2018 Nov;98(4-5):407-425. doi: 10.1007/s11103-018-0787-9.

10. Talà A, Damiano F, Gallo G, Pinatel E, Calcagnile M, Testini M, Fico D, Rizzo D, Sutura A, **Renzone G**, Scaloni A, De Bellis G, Siculella L, De Benedetto GE, Puglia AM, Peano C, Alifano P. Pirin: A novel redox-sensitive modulator of primary and secondary metabolism in *Streptomyces*. *Metab Eng*. 2018 Jul;48:254-268. doi: 10.1016/j.ymben.2018.06.008.
11. Janssen RH, Lakemond CMM, Fogliano V, **Renzone G**, Scaloni A, Vincken JP. Involvement of phenoloxidase in browning during grinding of *Tenebrio molitor* larvae. *PLoS One*. 2017 Dec 15;12(12):e0189685. doi: 10.1371/journal.pone.0189685. Erratum in: *PLoS One*. 2018 Jan 25;13(1):e0192015.
12. Salzano AM, Sobolev A, Carbone V, Petriccione M, **Renzone G**, Capitani D, Vitale M, Minasi P, Pasquariello MS, Novi G, Zambrano N, Scortichini M, Mannina L, Scaloni A. A proteometabolomic study of *Actinidia deliciosa* fruit development. *J Proteomics*. 2018 Feb 10;172:11-24. doi: 10.1016/j.jpro.2017.11.004.
13. Moschini R, Rotondo R, **Renzone G**, Balestri F, Cappiello M, Scaloni A, Mura U, Del-Corso A. Kinetic features of carbonyl reductase 1 acting on glutathionylated aldehydes. *Chem Biol Interact*. 2017 Oct 1;276:127-132. doi: 10.1016/j.cbi.2017.03.003.
14. Caira S, Iannelli A, Sciarrillo R, Picariello G, **Renzone G**, Scaloni A, Addeo P. Differential representation of liver proteins in obese human subjects suggests novel biomarkers and promising targets for drug development in obesity. *J Enzyme Inhib Med Chem*. 2017 Dec;32(1):672-682. doi: 10.1080/14756366.2017.1292262.
15. Rotondo R, Moschini R, **Renzone G**, Tuccinardi T, Balestri F, Cappiello M, Scaloni A, Mura U, Del-Corso A. Human carbonyl reductase 1 as efficient catalyst for the reduction of glutathionylated aldehydes derived from lipid peroxidation. *Free Radic Biol Med*. 2016 Oct;99:323-332. doi: 10.1016/j.freeradbiomed.2016.08.015.
16. Arena S, **Renzone G**, D'Ambrosio C, Salzano AM, Scaloni A. Dairy products and the Maillard reaction: A promising future for extensive food characterization by integrated proteomics studies. *Food Chem*. 2017 Mar 15;219:477-489. doi: 10.1016/j.foodchem.2016.09.165.
17. Filippi A, Petrusa E, Rajcevic U, Čurin Šerbec V, Passamonti S, **Renzone G**,

Scaloni A, Zancani M, Vianello A, Braidot E. Flavonoid Interaction with a Chitinase from Grape Berry Skin: Protein Identification and Modulation of the Enzymatic Activity. *Molecules*. 2016 Sep 28;21(10):1300. doi: 10.3390/molecules21101300.

18. Palazzotto E, Gallo G, **Renzone G**, Giardina A, Sutera A, Silva J, Vocat C, Botta L, Scaloni A, Puglia AM. TrpM, a Small Protein Modulating Tryptophan Biosynthesis and Morpho-Physiological Differentiation in *Streptomyces coelicolor* A3(2). *PLoS One*. 2016 Sep 26;11(9):e0163422. doi: 10.1371/journal.pone.0163422.
19. Cappiello M, Spinelli M, Mormino M, **Renzone G**, Scaloni A, Moschini R, Balestri F, Mura U, Del-Corso A. Purification and characterization of a Cys-Gly hydrolase from the gastropod mollusk, *Patella caerulea*. *J Enzyme Inhib Med Chem*. 2016 Dec;31(6):1560-5. doi: 10.3109/14756366.2016.1158170.
20. Gallo G, **Renzone G**, Palazzotto E, Monciardini P, Arena S, Faddetta T, Giardina A, Alduina R, Weber T, Sangiorgi F, Russo A, Spinelli G, Sosio M, Scaloni A, Puglia AM. Elucidating the molecular physiology of lantibiotic NAI-107 production in *Microbispora* ATCC-PTA-5024. *BMC Genomics*. 2016 Jan 12;17:42. doi: 10.1186/s12864-016-2369-z.