

Anna Maria Salzano



Researcher

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Education and Professional Experience

From February 2010 to date: Researcher (permanent position)

From August 2007 to February 2010: Researcher (temporary position)

2005-2007: Research fellowship at ISPAAM-CNR, Napoli. Italy

2002-2005: Post-Doc Research Fellow at Istituto Superiore di Sanità, Roma, Italy.

1998-2002: PhD in Chemical Sciences, University of Naples Federico II, Italy.

1997-1998: Fellowship at the International Mass Spectrometry Facility Center, CNR-University of Naples Federico II, Naples Italy.

December 1996: Master Degree in Chemistry, University of Naples, Italy.

Keywords

Biomolecular mass spectrometry, Proteomics, Protein characterization

Selected publications (max 20)

1. De Luca E, Perrelli A, Swamy H, Nitti M, Passalacqua M, Furfaro AL, **Salzano AM**, Scaloni A, Glading AJ, Retta SF. Protein kinase C α (PKC α) regulates the nucleocytoplasmic shuttling of KRIT1. J Cell Sci. 2020 Dec 21:jcs.250217. doi: 10.1242/jcs.250217.
2. Silvestri E, Senese R, De Matteis R, Cioffi F, Moreno M, Lanni A, Gentile A, Busiello RA, **Salzano AM**, Scaloni A, de Lange P, Goglia F, Lombardi A. Absence of uncoupling protein 3 at thermoneutrality influences brown adipose tissue mitochondrial functionality in mice. FASEB J. 2020 Nov;34(11):15146-15163. doi: 10.1096/fj.202000995R.
3. Lombardi N, Caira S, Troise AD, Scaloni A, Vitaglione P, Vinale F, Marra R, **Salzano AM**, Lorito M, Woo SL. Trichoderma Applications on Strawberry Plants Modulate the Physiological Processes Positively Affecting Fruit Production and Quality. Front Microbiol. 2020 Jul 3;11:1364. doi: 10.3389/fmicb.2020.01364.
4. Maselli V, Galdiero E, **Salzano AM**, Scaloni A, Maione A, Falanga A, Naviglio D, Guida M, Di Cosmo A, Galdiero S. OctoPartenopin: Identification and Preliminary Characterization of a Novel Antimicrobial Peptide from the Suckers of Octopus vulgaris. Mar Drugs. 2020 Jul 23;18(8):380. doi: 10.3390/md18080380.
5. Lombardi N, **Salzano AM**, Troise AD, Scaloni A, Vitaglione P, Vinale F, Marra R, Caira S, Lorito M, d'Errico G, Lanzuise S, Woo SL. Effect of *Trichoderma* Bioactive Metabolite Treatments on the Production, Quality, and Protein Profile of Strawberry Fruits. J Agric Food Chem. 2020 Jul 8;68(27):7246-7258. doi: 10.1021/acs.jafc.0c01438.
6. Desiderio A, **Salzano AM**, Scaloni A, Massa S, Pimpinella M, De Coste V, Pioli C, Nardi L, Benvenuto E, Villani ME. Effects of Simulated Space Radiations on the Tomato Root Proteome. Front Plant Sci. 2019 Oct 24;10:1334. doi: 10.3389/fpls.2019.01334.
7. Rage E, Drissi Touzani C, Marusic C, Lico C, Göbel T,

Bortolami A, Bonfante F, **Salzano AM**, Scaloni A, Fellahi S, El Houadfi M, Donini M, Baschieri S. Functional characterization of a plant-produced infectious bursal disease virus antigen fused to the constant region of avian IgY immunoglobulins. *Appl Microbiol Biotechnol*. 2019 Sep;103(18):7491-7504. doi: 10.1007/s00253-019-09992-9.

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. Giovannini C, **Salzano AM**, Baglioni M, Vitale M, Scaloni A, Zambrano N, Giannone FA, Vasuri F, D'Errico A, Svegliati Baroni G, Bolondi L, Gramantieri L. Brivanib in combination with Notch3 silencing shows potent activity in tumour models. *Br J Cancer*. 2019 Mar;120(6):601-611. doi: 10.1038/s41416-018-0375-4.
10. Silvestri E, Senese R, Cioffi F, De Matteis R, Lattanzi D, Lombardi A, Giacco A, **Salzano AM**, Scaloni A, Ceccarelli M, Moreno M, Goglia F, Lanni A, de Lange P. 3,5-Diiodo-L-Thyronine Exerts Metabolically Favorable Effects on Visceral Adipose Tissue of Rats Receiving a High-Fat Diet. *Nutrients*. 2019 Jan 27;11(2):278. doi: 10.3390/nu11020278.
11. Cianfruglia L, Perrelli A, Fornelli C, Magini A, Gorbi S, **Salzano AM**, Antognelli C, Retta F, Benedetti V, Cassoni P, Emiliani C, Principato G, Scaloni A, Armeni T, Retta SF. KRIT1 Loss-Of-Function Associated with Cerebral Cavernous Malformation Disease Leads to Enhanced S-Glutathionylation of Distinct Structural and Regulatory Proteins. *Antioxidants (Basel)*. 2019 Jan 17;8(1):27. doi: 10.3390/antiox8010027.
12. Perrelli A, Goitre L, **Salzano AM**, Moglia A, Scaloni A, Retta SF. Biological Activities, Health Benefits, and Therapeutic Properties of Avenanthramides: From Skin

Protection to Prevention and Treatment of Cerebrovascular Diseases. *Oxid Med Cell Longev*. 2018 Aug 23;2018:6015351. doi: 10.1155/2018/6015351.

13. Lonoce C, Marusic C, Morrocchi E, **Salzano AM**, Scaloni A, Novelli F, Pioli C, Feeney M, Frigerio L, Donini M. Enhancing the Secretion of a Glyco-Engineered Anti-CD20 scFv-Fc Antibody in Hairy Root Cultures. *Biotechnol J*. 2019 Mar;14(3):e1800081. doi: 10.1002/biot.201800081.
14. Girolami F, Badino P, Spalenza V, Manzini L, Renzone G, **Salzano AM**, Dal Piaz F, Scaloni A, Rychen G, Nebbia C. Identification of candidate biomarkers of the exposure to PCBs in contaminated cattle: A gene expression- and proteomic-based approach. *Sci Total Environ*. 2018 Nov 1;640-641:22-30. doi: 10.1016/j.scitotenv.2018.05.284.
15. Silvestri E, Cioffi F, De Matteis R, Senese R, de Lange P, Coppola M, **Salzano AM**, Scaloni A, Ceccarelli M, Goglia F, Lanni A, Moreno M, Lombardi A. 3,5-Diiodo-L-Thyronine Affects Structural and Metabolic Features of Skeletal Muscle Mitochondria in High-Fat-Diet Fed Rats Producing a Co-adaptation to the Glycolytic Fiber Phenotype. *Front Physiol*. 2018 Mar 9;9:194. doi: 10.3389/fphys.2018.00194.
16. Villani ME, Massa S, Lopresto V, Pinto R, **Salzano AM**, Scaloni A, Benvenuto E, Desiderio A. Effects of high-intensity static magnetic fields on a root-based bioreactor system for space applications. *Life Sci Space Res (Amst)*. 2017 Nov;15:79-87. doi: 10.1016/j.lssr.2017.09.002.
17. Marusic C, Pioli C, Stelter S, Novelli F, Lonoce C, Morrocchi E, Benvenuto E, **Salzano AM**, Scaloni A, Donini M. N-glycan engineering of a plant-produced anti-CD20-hIL-2 immunocytokine significantly enhances its effector functions. *Biotechnol Bioeng*. 2018 Mar;115(3):565-576. doi: 10.1002/bit.26503.
18. **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.jprot.2017.11.004.

19. 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.
20. Arena S, **Salzano AM**, Scaloni A. Identification of protein markers for the occurrence of defrosted material in milk through a MALDI-TOF-MS profiling approach. *J Proteomics*. 2016 Sep 16;147:56-65. doi: 10.1016/j.jprot.2016.02.016.