

<Chiara Melchiorre>



Born in <Napoli> (<Italy>) on 21/06/1989

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Current Position: <Project Manager>

Supervisor: <Donatella de Pascale>

Appointed on project: < LIFE SEDREMED>

Affiliation:

Section < Biotecnologie Marine Ecosostenibili>, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples Federico II, Department of Chemical Science	Master	2013-2016	Biochemistry
National Institute Biostructures and Biosystems (INBB)	Research Scholarship	2017-2018	Analytical Chemistry
University of Naples Federico II, Department of Chemical Science	Ph.D.	2018-2021	Chemical Science
University of Siena, Department of Biotechnology, Chemistry and Pharmacy.	Research Fellowship	2021-2022	Analytical Chemistry

Other matters relevant to scientific career

Didactic support course activities

- "Laboratory of Biochemistry", University Federico II, Naples.

- "Analytical Techniques in Glycobiology", University Federico II, Naples.

Professor: A. Carpentieri

- "Lauree Scientifiche Project";

- 'The Crime Scene', Futuro Remoto (2016/2017/2018/2019) Naples;

Professors: P. Pucci, A. Carpentieri

Publications

List of publications of the last 10 years

Journal Papers

- (1) Carpentieri, A.; Sebastianelli, A.; Melchiorre, C.; Pinto, G.; Staropoli, A.; Trifuoggi, M.; Amoresano, A., Mass spectrometry based proteomics for the molecular fingerprinting of Fiano, Greco and Falanghina cultivars. Food Research International 2019, 120, 26-32. <https://doi.org/10.1016/j.foodres.2019.02.020>
- (2) Carpentieri, A.; Sebastianelli, A.; Melchiorre, C.; Pinto, G.; Trifuoggi, M.; Lettera, V.; Amoresano, A., Fiano, Greco and Falanghina grape cultivars differentiation by volatiles fingerprinting, a case study. Heliyon 2019, 5 (8). <https://doi.org/10.1016/j.heliyon.2019.e02287>
- (3) Castiglia, D.; Leone, S.; Tamburino, R.; Sannino, L.; Fonderico, J.; Melchiorre, C.; Carpentieri, A.; Grillo, S.; Picone, D.; Scotti, N., High-level production of single chain monellin mutants with enhanced sweetness and stability in tobacco chloroplasts. Planta 2018, 248 (2), 465-476. <https://doi.org/10.1007/s00425-018-2920-z>
- (4) Illiano, A.; Pinto, G.; Melchiorre, C.; Carpentieri, A.; Faraco, V.; Amoresano, A., Protein Glycosylation Investigated by Mass Spectrometry: An Overview. Cells 2020, 9 (9). <https://doi.org/10.3390/cells9091986>
- (5) Leone, S.; Fonderico, J.; Melchiorre, C.; Carpentieri, A.; Picone, D., Structural effects of methylglyoxal glycation, a study on the model protein MNEI. Molecular and Cellular Biochemistry 2019, 451 (1-2), 165-171. <https://doi.org/10.1007/s11010-018-3403-z>
- (6) Melchiorre, C.; Dello Iorio, L.; Ntasi, G.; Birolo, L.; Trojsi, G.; Cennamo, P.; Lumaga, M. R. B.; Fatigati, G.; Amoresano, A.; Carpentieri, A., A multidisciplinary assessment to investigate a XXII dynasty wooden coffin. International Journal of Conservation Science 2020, 11 (1), 25-38. ISSN: 2067-533X. http://ijcs.ro/public/IJCS-20-03_Melchiorre.pdf
- (7) Melchiorre, C.; Palmiero, S.; Fatigati, G.; Amoresano, A.; Marino, G.; Carpentieri, A., A procedure for combining the removal and the identification of a patina on a 15Th century byzantine icon. International Journal of Conservation Science 2019, 10 (2), 249-256. ISSN: 2067-533X. http://ijcs.ro/public/IJCS-19-22_Melchiorre.pdf
- (8) Melchiorre, M.; Benessere, V.; Cucciolito, M. E.; Melchiorre, C.; Ruffo, F.; Esposito, R., Direct and Solvent-Free Oxidative Cleavage of Double Bonds in High-Oleic Vegetable Oils. ChemistrySelect 2020, 5 (4), 1396-1400. <https://doi.org/10.1002/slct.201903516>
- (9) Pinto, G.; Illiano, A.; Carpentieri, A.; Spinelli, M.; Melchiorre, C.; Fontanarosa, C.; Serio, M. D.; Amoresano, A., Quantification of Polyphenols and Metals in Chinese Tea Infusions by Mass Spectrometry. Foods 2020, 9 (6). <https://doi.org/10.3390/foods9060835>
- (10) Carpentieri, A.; Vicchio, D.; Fontanarosa, C.; Melchiorre, C.; Trifuoggi, M.; Amoresano, A., Molecular Characterization of Olive Cultivars from Italy (Campania): A Mass Spectrometry Approach. Journal of Food Science & Nutrition 2020. [DOI:10.24966/FSN-1076/100052](https://doi.org/10.24966/FSN-1076/100052).

- (11) Melchiorre, C.; Chhuon, C.; Jung, V.; Lipecka, J.; Di Rella, F.; Conforti, A.; Amoresano, A.; Carpentieri, A.; Guerrera, I. C., Identification and Relative Quantification of hFSH Glycoforms in Women's Sera via MS-PRM-Based Approach. *Pharmaceutics* 2021, 13 (6), 798. <https://doi.org/10.3390/pharmaceutics13060798>
- (12) Molisso, D.; Coppola, M.; Buonanno, M.; Di Lelio, I.; Monti, S. M.; Melchiorre, C.; Amoresano, A.; Corrado, G.; Delano-Frier, J. P.; Becchimanzi, A., Tomato Prosystemin is much more than a simple Systemin precursor. *Biology* 2022, 11 (1), 124. <https://doi.org/10.3390/biology11010124>
- (13) Massai, L., Messori, L., Carpentieri, A., Amoresano, A., Melchiorre, C., Fiaschi, T., ... & Magherini, F., The effects of two gold-N-heterocyclic carbene (NHC) complexes in ovarian cancer cells: a redox proteomic study. *Cancer Chemotherapy and Pharmacology* 2022, 1-15. <https://doi.org/10.1007/s00280-022-04438-y>
- (14) Ntasi, G., Sbriglia, S., Pitocchi, R., Vinciguerra, R., Melchiorre, C., Dello Ioio, L., ... & Birolo, L. (2022). Proteomic Characterization of Collagen-Based Animal Glues for Restoration. *Journal of proteome research*, 21(9), 2173-2184. <https://doi.org/10.1021/acs.jproteome.2c00232>
- (15) D'Angelo C, Casillo A, Melchiorre C, Lauro C, Corsaro MM, Carpentieri A, Tutino ML, Parrilli E. CATASAN Is a New Anti-Biofilm Agent Produced by the Marine Antarctic Bacterium *Psychrobacter* sp. TAE2020. *Marine Drugs*. 2022; 20(12):747. <https://doi.org/10.3390/md20120747>

No ISI journals

- (1) Illiano A., Melchiorre C., Cioci C., Pinto G., Di Rella F., Conforti A., Carbone L. and Amoresano A. Quantitative Analysis of Gonadotropins and Thyrotropin in Sera Samples by LC-MRM Mass Spectrometry. *Andrology*, 2022, S1.002. [DOI: 10.35248/2167-0250.22](https://doi.org/10.35248/2167-0250.22).

Book Chapter

Capitolo 17- Modifiche post-traduzionali, Carpentieri A, Pinto G, Illiano A, Melchiorre C e Amoresano A. *Proteomica*. 2021 ISBN 9788836230495, 8836230490 pag. 193-204 Italia: Edises.

PhD Thesis

Melchiorre C. "Development of a new method for identification of FSH glycoforms involved in human fertility." (2021).