

## Linda Bianco



📍 ENEA Italian National Agency for New Technologies, Energy and Sustainable Economic Development

Energy Technologies and Renewable Sources Department  
S.S. 106 Jonica, km 419+500 - 75026 Rotondella (MT) Italy

☎ +390835974342 📅 +393207667204

✉ linda.bianco@enea.it



Sex Female | *Date of birth* 05/08/1978 | *Nationality* Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input checked="" type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

### WORK EXPERIENCE

From 12/2012 until today

#### Researcher- Permanent position

ENEA Trisaia Research Centre – S.S. 106 Jonica, Km 419+500 Rotondella (MT) Italy

- Research activities in the field of “omics” sciences, particularly in the proteomics field.  
Main interests: study of plants of agro-industrial importance, study of microorganisms decomposing lignocellulosic biomasses, biocatalysts of microbial origin, mycoremediation, microbial lipid production

From 06/2011 to 11/2011

#### Post-doc

Technical University of Denmark - Systems Biology – Enzyme and Protein Chemistry - Anker Engelunds Vej 1, 2800, Kgs. Lyngby, DK

- Set up of a redox DIGE based approach for the identification of Thioredoxin target proteins in Barley.

From 05/2009 to 05/2011

#### Research grant financed by Basilicata Region

ENEA Trisaia Research Centre – S.S. 106 Jonica, Km 419+500 Rotondella (MT) Italy

- Mass spectrometry for protein profiling applied to the detection of protein biomarkers, as indicator of quality, authenticity, contamination and allergenicity in foods of plant origins.

From 01/2011 to 04/2011

#### Visiting scientist at Technical University of Denmark - Systems Biology – Enzyme and Protein Chemistry

Technical University of Denmark - Systems Biology – Enzyme and Protein Chemistry - Anker Engelunds Vej 1, 2800, Kgs. Lyngby, DK

- Short Term Scientific Mission - Cost Grant - Proteomic analysis of Olive drupes during plant development: the influence of maturation and ripening on oil composition. .

From 02/2010 to 06/2010

#### Visiting scientist at Technical University of Denmark - Systems Biology – Enzyme and Protein Chemistry

Technical University of Denmark - Systems Biology – Enzyme and Protein Chemistry - Anker Engelunds Vej 1, 2800, Kgs. Lyngby, DK

- Optimization of Redox DIGE for plant proteomic application..

## EDUCATION AND TRAINING

- 02/2009 **PhD in Plant Biology**  
 University of Calabria - Via Pietro Bucci, 87036, Arcavacata di Rende (CS), Italy  
 ▪ Thesis: Proteomic characterization of strawberry fruit during ripening and in different genotypes.
- 12/2005 **Professional training in Pharmacy**  
 University of Calabria - Via Pietro Bucci, 87036, Arcavacata di Rende (CS), Italy  
 ▪ Replace with a list of principal subjects covered or skills acquired
- 11/2004 **Master's degree in Pharmaceutical Chemistry and Technologies**  
 University of Calabria - Via Pietro Bucci, 87036, Arcavacata di Rende (CS), Italy  
 ▪ ▪ Thesis: Transcriptional effects induced by ionizing radiations in *Mus musculus*: comparative evaluation by microarray and real time PCR.

## PERSONAL SKILLS

- Mother tongue Italian
- Other language(s) English B2
- Job-related skills Proteomics and mass spectrometry-based proteomics; omics and meta-omics approaches; molecular biology of plants and microorganisms (bacteria, yeast, and filamentous fungi); microbial and enzymatic biocatalysis; mycoremediation; fungal isolation techniques.
- Digital skills Use of Microsoft Office 365- Basic bioinformatics- Use of tools and software for protein and nucleic acid analyses (Mascot, Spectrum Mill, Gaia, CLC *etc*); use of software dedicated to various laboratory instruments.

## ADDITIONAL INFORMATION

- Publications** total number of publications in peer-review journals: 17  
 total number of citations 612  
 H index 10
- [2020]  
 Bioremediation of Wastewater Stream from Syngas Cleaning via Wet Scrubbing.  
 Riferimento: Chemical Engineering Transactions, 80, 31-36.  
 Bianco, L., D'Amico, E., Villone, A., Nanna, F., & Barisano, D.
- [2018]  
 Omics approaches on fresh - cut lettuce reveal global molecular responses to sodium hypochlorite and peracetic acid treatment.  
 Riferimento: Journal of the Science of Food and Agriculture, 98(2), 737-750.  
 Daddiego, L., Bianco, L., Capodicasa, C., Carbone, F., Dalmastrì, C., Daroda, L., ... & Lopez, L.
- [2015]  
 Indicatori di qualità per la IV gamma  
 Riferimento: Ingredienti Alimentari 14(78), ISSN 1594-0543  
 L. Daddiego, G. Perrotta, A. Bevivino, L. Bianco, C. Capodicasa, R. Caprioli, F. Carbone, C., Dalmastrì ... & L. Daroda
- [2015]  
 Purification of intact chloroplasts from marine plant *Posidonia oceanica* suitable for organelle proteomics.

Riferimento: *Proteomics*, 15(23-24), 4159-4174.

Piro, A., Serra, I. A., Spadafora, A., Cardilio, M., Bianco, L., Perrotta, G., ... & Mazzuca, S

[2015]

Bacterial community and proteome analysis of fresh-cut lettuce as affected by packaging.

Riferimento: *FEMS Microbiology Letters*, fnv209.

Di Carli, M., De Rossi, P., Paganin, P., Del Fiore, A., Lecce, F., Capodicasa, C., ... Bianco, L. .... & Bevivino, A.

[2015]

Methodologies and perspectives of proteomics applied to filamentous fungi: From sample preparation to secretome analysis

Riferimento: *International journal of molecular sciences*, 16(3), 5803-5829.

Bianco, L., & Perrotta, G. (2015).

[2014]

Functional metagenomic and proteomic characterization of soil microbial community associated with decomposing reeds.

Riferimento: *New Biotechnology*, (31), S170-S171.

Perrotta, G., Bianco, L., Carbone, F., Daddiego, L., Facella, P., & Lopez, L.

[2013]

Proteome regulation during *Olea europaea* fruit development.

Riferimento: *PLoS one*, 8(1), e53563.

Bianco, L., Alagna, F., Baldoni, L., Finnie, C., Svensson, B., & Perrotta, G.

[2012]

Tomato plants overexpressing cryptochrome 2 reveal altered expression of energy and stress - related gene products in response to diurnal cues.

Riferimento: *Plant, cell & environment*, 35(5), 994-1012.

Lopez, L., Carbone, F., Bianco, L., Giuliano, G., Facella, P., & Perrotta, G

[2012]

Analisi proteomica della cromoplastogenesi nella bacca di *Solanum lycopersicon*.

Riferimento: *I Georgofili*, 9(9), 163-192.

Ballottari, M., Scala, A., Bianco, L., Mancone, C., & Tripodi, M.

[2010]

Differential proteomic analysis highlights metabolic strategies associated with balhimycin production in *Amycolatopsis balhimycina* chemostat cultivations.

Riferimento: *Microbial cell factories*, 9, 95-95.

Gallo, G., Alduina, R., Renzone, G., Thykaer, J., Bianco, L., Eliasson-Lantz, A., ... & Puglia, A.M.

[2010]

Proteomic analysis of the plant- virus interaction in Cucumber mosaic virus (CMV) resistant transgenic tomato

Riferimento: *Journal of proteome research*, 9(11), 5684-5697.

Di Carli, M., Villani, M. E., Bianco, L., Lombardi, R., Perrotta, G., Benvenuto, E., & Donini, M.

[2009]

High-level HIV-1 Nef transient expression in *Nicotiana benthamiana* using the P19 gene silencing suppressor protein of Artichoke Mottled Crinckle Virus

Riferimento: *BMC Biotechnol.* 9(1), 1-11.

Lombardi, R., Circelli, P., Villani, M. E., Buriani, G., Nardi, L., Coppola, V., Bianco, L... & Marusic, C.

[2009]

Strawberry proteome characterization and its regulation during fruit ripening and in different genotypes.

Riferimento: *Journal of Proteomics*, 72(4), 586-607.

Bianco, L., Lopez, L., Scalone, A. G., Di Carli, M., Desiderio, A., Benvenuto, E., & Perrotta, G.

[2022]

Plants: a sustainable platform for second-generation biofuels and biobased chemicals  
In *Handbook of Biofuels* (pp. 47-72). Academic Press.

Lopez, L., Alagna, F., Bianco, L., De Bari, I., Fasano, C., Panara, F., & Perrella, G.

[2016]

Fruit Development and Ripening: Proteomic as an Approach to Study *Olea europaea* and Other Non-model Organisms

In Agricultural Proteomics Volume 1 (pp. 53-65). Springer, Cham.

Bianco, L., & Perrotta, G.

[2017]

Integration of multi-omics data for biomarker identification of food safety and quality.

In book: Science within Food: Up-to-date Advances on Research and Educational Ideas

Publisher: Form

Perrotta, G., Donini, M., Demurtas, ... Bianco L ... & Bevivino, A.

**Projects**

Era CoBioTech RHODOLIVE - Biovalorization of Olive Mill Wastewater (OMW) to Microbial Lipids and Other Products via *Rhodotorula glutinis* Fermentation - Grant 722361 -

LIFE14 ENV/IT/000461 "A New Life for Mar Piccolo" Member of the technical committee of the project.

PSR Basilicata 2014 - 20 Mis. 16.2 "O.r.g.oli.o Lucano".

ACCORDO DI PROGRAMMA MiTE – ENEA – INVESTIMENTO 3.5 "RICERCA E SVILUPPO SULL'IDROGENO", FINANZIATO DALL'UNIONE EUROPEA – NEXT GENERATION EU.

PRIMA Project REVINE- Regenerative agricultural approaches to improve ecosystem services in Mediterranean vineyards.

JCA Eni-Enea - Progetto 2 Biomasse - Sottoprogetto 2 "Test degli zuccheri per la produzione di oli microbici con la tecnologia ENI".

**Other Relevant Information**

Principal investigation and WP leader in Era CoBioTech RHODOLIVE - Biovalorization of Olive Mill Wastewater (OMW) to Microbial Lipids and Other Products via *Rhodotorula glutinis* Fermentation - Grant 722361 -

26/01/2024

