

PERSONAL INFORMATION

Linda Bianco

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Sex: F Date of birth: 05/08/1978 Nationality: Italian



CURRENT POSITION

Researcher

RESEARCH FIELD

Molecular biology, proteomics, metagenomics and microbial biotechnology.

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 Engeldunds 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 Engeldunds 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 Engeldunds 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

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 languages

English

ADDITIONAL INFORMATION

Publications and main indexes

Total number of publications in peer-review journals: 17

H-Index: 9

Google Scholar Page: <https://scholar.google.com/citations?user=X0kRx6YAAAAJ&hl=it>

<https://www.researchgate.net/profile/Linda-Bianco>

<https://www.scopus.com/results/authorNamesList.uri?st1=bianco&st2=linda&origin=searchauthorlookup>

ORCID: <https://orcid.org/0000-0003-0819-3049>

Relevant publications for the call (max 5)

- 1) Bianco, L., D'Amico, E., Villone, A., Nanna, F., & Barisano, D. 2020 Bioremediation of Wastewater Stream from Syngas Cleaning via Wet Scrubbing. *Chemical Engineering Transactions*, 80, 31-36.
- 2) Bianco, L., & Perrotta, G. (2015). Methodologies and perspectives of proteomics applied to filamentous fungi: From sample preparation to secretome analysis. *International journal of molecular sciences*, 16(3), 5803-5829.
- 3) Gallo, G., Alduina, R., Renzone, G., Thykaer, J., Bianco, L., Eliasson-Lantz, A., ... & Puglia, A. M. 2010 Differential proteomic analysis highlights metabolic strategies associated with balhimycin production in *Amycolatopsis balhimycina* chemostat cultivations. *Microbial cell factories*, 9, 95-95.
- 4) Di Carli, M., Villani, M. E., Bianco, L., Lombardi, R., Perrotta, G., Benvenuto, E., & Donini, M. 2010 Proteomic analysis of the plant-virus interaction in Cucumber mosaic virus (CMV) resistant transgenic tomato *Journal of proteome research*, 9(11), 5684-5697.
- 5) Di Carli, M., De Rossi, P., Paganin, P., Del Fiore, A., Lecce, F., Capodicasa, C., ... Bianco, L. & Bevivino, A. 2009. Bacterial community and proteome analysis of fresh-cut lettuce as affected by packaging. *FEMS Microbiology Letters*, fnv209.

Presentations at conferences

- D' Amico E., Perrotta G., Bianco L. Arthriniun: an old fungus for new functions. Poster Communication Abstract 7th Conference on Physiology of Yeast and Filamentous Fungi, Milano 24- 27 Giugno 2019.
- D' Amico E., Perrotta G., Bianco L.. Who does what? The role of the fungal enzymes within specific lignocellulose biomass-degrading consortium. Poster Communication Abstract - 8.03 Proceedings of the LX SIGA Annual Congress Catania, Italy - 13/16 September, 2016 ISBN 978-88-904570-6-7.
- Fantini E., Lopez L., Panara F., Daddiego L., Bianco L., Facella P., Bock R., Perrotta G., TOBACCO AS HETEROLOGOUS EXPRESSION SYSTEM FOR THE PRODUCTION OF THE WHITE ROT FUNGUS *BJERKANDERA ADUSTA* VERSATILE PEROXIDASE. Joint Congress SIBV-SIGA. Milano 8-11 September 2015.
- L. Bianco, R. Lamanna, G. Perrotta. Secretome composition of *B. adusta* cultivated on different substrates to investigate its potential in biomass deconstruction 6th European Conference on Prokaryotic and Fungal Genomics - Göttingen, GERMANY- 2 9 Settembre- 2 Ottobre 2015. Poster Abstract P Geno 41
- Bianco L., Facella P., Daddiego L., Ambrico A., Perrotta G. "Meta-omics" approaches to identify genes and proteins involved in lignocellulose degradation of plant litter. 21 Biomass Conference and Exhibition; Copenhagen, 3-7 Giugno 2013 Oral communication.

Main projects with interest for the call (last 5 years)

- Era CoBioTech RHODOLIVE - Biovalorization of Olive Mill Wastewater (OMW) to Microbial Lipids and Other Products via *Rhodotorula glutinis* Fermentation - Grant 722361 - Role: Principal investigation for ENEA - WP 4 leader "Valorization and reuse of OMW effluent from *R. glutinis* fermentation".
- 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".

Honours and awards

Cost Grant for Short Term Scientific Mission - 01/2011 - 04/2011

Date 19 December 2022

Signature

