

EUROPEAN CURRICULUM VITAE



PERSONAL INFORMATION

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| Name | GIACOBELLI VALERIO GUIDO |
| Address | Via 4 novembre II traversa 39, 80056 Ercolano, Naples, (Italy) |
| Telephone |  + 39 081 739 08 76  +39 346 79 37 181 |
| E-mail | vgiacobelli@gmail.com |
| Gender | male |
| Nationality | Italian |
| Date of birth | October 4 th 1988 |

WORK EXPERIENCE

- Dates
 - Name and address of employer
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities
- MARCH 2014-TODAY**
University of Naples Federico II
Department of Chemical Science
PhD student
Isolation, purification, production and characterization of new wild type and recombinant enzymes. Developing of novel industrial eco-friendly processes. Tutoring of undergraduate student in thesis preparation.
- Dates
 - Name and address of employer
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities
- NOVEMBER 2013- NOVEMBER 2016**
University of Naples Federico II
Department of Chemical Science
PhD student
Teaching assistant for the molecular biology laboratories.
- Dates
 - Name and address of employer
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities
- MARCH 2015-SEPTEMBER 2015**
Barcelona Supercomputing Center
Computational science and engineering
Visiting PhD student supported by European Union founded INDOX project (INDOX, 613549) in the frame of the seventh frame work programme of the EU
Identification of site-specific enzyme mutants through computational software for a more sustainable dye industry.
- Dates
 - Name and address of employer
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities
- SEPTEMBER 2014-GENUARY 2015**
University of Naples Federico II
Department of Chemical Science
PhD student
Member of organising committee for the conference Biotecnologie industriali: unione tra università e imprese (BioUniverse).

- Dates
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

JULY 2013-FEBRUARY 2014

University of Naples Federico II
 Department of Chemical Science
 Intern
 Optimization of laccase production from *Pichia pastoris* by fed-batch fermentation.

EDUCATION AND TRAINING

- Dates
- Name and type of organisation providing education and training
 - Title of qualification awarded
 - Final mark

March 2011-July 2013

University of Naples Federico II
 Master's degree in Molecular and Industrial Biotechnology
 110/110 cum laude

- Dates
- Name and type of organisation providing education and training
 - Title of qualification awarded
 - Final mark

September 2007-March 2011

University of Naples Federico II
 Bachelor degree in Biomolecular and Industrial Biotechnology
 110/110

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH (CAMBRIDGE ESOL)

- Reading skills B2 EUROPEAN LEVEL
- Writing skills B2 EUROPEAN LEVEL
- Verbal skills B2 EUROPEAN LEVEL

Spanish

- Reading skills B1 EUROPEAN LEVEL
- Writing skills B1 EUROPEAN LEVEL
- Verbal skills B1 EUROPEAN LEVEL

SOCIAL SKILLS AND COMPETENCES

Ability to coordinate a research group also in stressful working conditions. Aptitude to share knowledge and expertise and knowledge to get the best results and to solve problems.

ORGANISATIONAL SKILLS AND COMPETENCES

High competencies in successful coordination of research projects through mentorship of undergraduate students during the development of their thesis.

SCIENTIFIC PROFILE

Knowledge in cellular and molecular biology, genetic, biochemistry, microbiology, microscopy, fermentation processes, fundamentals of organic chemistry and computational science.

TECHNICAL SKILLS AND COMPETENCES

Biochemistry techniques:

Proteins purification by AKTA systems
Proteins characterization by spectrophotometer, circular dichroism and electrophoresis methods

Microbiology/Mycology:

Fungi, yeast and bacteria growth culture, media formulation and optimization

Microscopy:

Optical and confocal

Fermentation processes:

Batch, Fed-batch and C-STR fermentation on different production scale (2-20L)

Molecular biology techniques:

Nucleic acid manipulation
Genes cloning in *Pichia Pastoris* and *Escherichia Coli*
Proteins heterologous expression in *P. pastoris* and *E.coli*

Proteomic:

Basic knowledge of MALDI-TOF

Statistic:

Design of Experiment (Response Surface Methodology)

Computational science:

Knowledge of Expasy bioinformatic tools
Docking software PELE (Protein Energy Landscape Exploration)
Basic knowledge of Gromacs

Computer literacy:

MS Office package
Linux operating system

DRIVING LICENCE

B category

COMMUNICATIONS:

POSTER

Giacobelli V.G., Monza E., Piscitelli A., Pezzella C., Lucas F., Guallar V. and G. Sannia. Engineering laccase POXA1B through computational methods. 8th European Meeting on oxidative enzymes (OxiZymes) 3–6 July 2016, Wageningen, Netherlands

Giacobelli V. G., Pezzella C., Piscitelli A., Cicatiello P., Sannia G. *Pichia Pastoris* heterologous expression: filling the GAP...promoter with glycerol. 8th Conference on Recombinant Protein Production (RPP) 22-24 April 2015, Palma de Mallorca, Spain

Pezzella C, Piscitelli A, Macellaro G, **Giacobelli V.G.**, Cicatiello P, Sannia G. Effective mutations in a high-redox potential laccase from *Pleurotus ostreatus*. 7th European Meeting on oxidative enzymes (OxiZymes), 1-4, July 2014, Vienna, Austria

Pezzella C, Piscitelli A, Macellaro G, **Giacobelli V.G.**, Cicatiello P, Sannia G. High redox-potential oxidative enzymes for industrial applications. 8th International Conference on Polymer and Fiber Biotechnology; 25-27 May 2014 Braga, Portugal.

Pezzella C, Lettera V, Piscitelli A, Cicatiello P, **Giacobelli V.G.**, Morra S and Sannia G. Laccases as industrial biocatalysts: two case studies. Italian Forum on Industrial Biotechnology and Bioeconomy -IFIB, 22 - 23 October 2013 Naples, Italy.

ORAL PRESENTATION

Giacobelli V.G., Piscitelli A., Pezzella C., Guarino L., Kilic S., Giacobbe S., Sener M., Sannia G. Laccase assisted synthesis of a new eco-friendly polymeric dye. 9th International Conference on Fiber and Polymer Biotechnology (IFBP) 7-9 September 2016, Osaka, Japan

PUBLICATION

Pezzella C., **Giacobelli V. G.**, Lettera V., Olivier G., Cicatiello P., Sannia G., Piscitelli A.. Evaluation of techno-economic feasibility of recombinant laccase production in *Pichia pastoris*: a comparison between inducible and constitutive promoters. Submitted to Journal of Biotechnology.

Giacobelli V.G. and Monza E., Piscitelli A., Pezzella C., Lucas F., Guallar V. and G. Sannia. Repurposing designed mutants: a valuable strategy for computer-aided laccases engineering. The case of POXA1b. Catal. Sci. Technol., 2017, DOI: 10.1039/C6CY02410F

Pezzella C., Giacobbe S, **Giacobelli V. G.**, Guarino L., Kylic S., Sener M., Sannia G, Piscitelli A.. Green routes towards industrial textile dyeing: A laccase based approach. J. Mol. Catal. B: Enzym. 2016, 134 (2016) 274–279

Lettera V., Pezzella C., Cicatiello P., Piscitelli A., **Giacobelli V. G.**, Galano E., Amoresano A. and Sannia G. Efficient immobilization of a fungal laccase and its exploitation in fruit juice clarification. Food Chemistry Volume 196, 1 April 2016, Pages 1272–1278.