

# Curriculum vitae et studiorum



Dr. Gianluca Ottolina

Research scientist

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## Research interests

- i) Enzyme catalysis and kinetics
- ii) Organic synthesis with enzymes
- iii) Bio-oxidation
- iv) Biomass pretreatment

## Education

1986 - Degree in Chemistry (Università degli Studi di Milano) Research advisor: Professor Bruno Danieli  
1989 - Researcher at ICRM  
1990 -1991 Fellow at Chem. Dept. University of Toronto (Toronto, Canada) Research advisor: Professor J. Bryan Jones  
1996 - Specialization degree in Applied biotechnology (Università degli Studi di Milano)

## Experience and background

### Projects

2003-2005 Project leader; Asymmetric oxidation using two-in-one “2<sup>nd</sup> generation” biocatalyst; (CERC3)  
2007-2009 Project leader; BVMO: Bayer-Villiger monooxygenase. Projects of major importance of the Italian Ministry of Foreign Affairs (Italy-Canada)  
2011-2013 Project leader; VeLiCa. From ancient crops materials and products for the future; Regione Lombardia  
2013-2015 Task leader; Biorefill: BIO-REFinery Integrated Lombardy Labs. Regione Lombardia - Cariplo;  
2014-2016. Task leader; SusChem Lombardia: Sustainable chemical products and processes for the industry in Lombardy; Regione Lombardia  
2015-2016 Task leader; MATER: Innovative materials and efficient technologies for renewable energies; (MIUR - Ministry of University and Research - Rome Italy)

2017-2019 Task leader; RAINBOW: Renewable RAW materials valorization for INnovative BiOplastic production from urban Waste; Regione Lombardia  
2017-2019 Task leader; BIOCODE: Towards a novel and sustainable biorefinery concept based on green technologies for main commercial grain crop residues; ERANet-LAC  
2018-2020 Task leader; InFlaMe: Improvement of secondary metabolites production for human health by flax cell in vitro technology; Fondazione Cariplo

### *Academic*

2009-2011 Adjunct professor; Università dell'Insubria Varese; Course: Biocatalysis

### *Activities*

2001-2007 Group member; COST Action D25; Applied Biocatalysis: Stereoselective and environmentally friendly reactions catalysed by enzymes  
2008 2011 Group member; COST Action CM0701; Cascade Chemoenzymatic Processes - New Synergies Between Chemistry and Biochemistry

### *Reviewing for international journals*

Advanced Synthesis & Catalysis  
Advances in Polymer Science  
Applied Biochemistry and Biotechnology  
Biocatalysis and Biotransformation  
Bioprocess and Biosystems Engineering  
Bioresource Technology  
Canadian Journal of Chemistry  
Catalysis Science & Technology  
Chemistry Central Journal  
Chemical Reviews  
ChemCatChem  
Chemical Communications  
Coordination Chemistry Review  
European Journal of Organic Chemistry  
Energy and Environmental Science  
Green Chemistry  
Journal of Molecular Catalysis B Enzymatic  
Journal of Biotechnology  
Journal of Chemical Theory and Computation  
Molecules  
Process Biochemistry  
RSC Advances  
Topics in Catalysis  
Waste and Biomass Valorization

### *Student supervision*

About 25 students of different courses  
Biology  
Chemistry

Industrial biotechnology  
Pharmaceutical chemistry and technology  
Pharmaceutical biotechnology

Dr. Gianluca Ottolina is coauthor of 83 papers in international peer reviewed journals, 6 invited book chapter and several contributions and lectures in international and national conferences.

Google Scholar H index = 32; i10-index = 55;

Web of Science H index = 28