

Curriculum Vitae

Personal informations

Giovanni Gambera

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Nationality Italian
Date of birth 05/07/1972
Gender Male
Address Via Alberto Mario, 17—96015 Francofonte (SR) -Italy

Work experience

Dates **October 2014—september 2016**

Position held Researcher (fixed term) at ICB-CNR branch of Catania.

Main activities and responsibilities

- Synthesis of analogues of glycerophosphoinositol.
- Studies on biocatalysed chemical transformations.
- Synthesis of functionalised flavonoids.
- Studies on the valorisation of olive mill waste water and of waste materials originated by the fishing industry.

Name and address of employer Institute of Biomolecular Chemistry of the National Research Council Italy, (ICB-CNR), branch of Catania (Italy).

Type of sector Pharmaceutical R&D

Dates **June 2012—June 2014**

Position held Post Doctoral Research Fellow.

Main activities and responsibilities

- Synthesis of fluorescent glycerophosphoinositols.
- Synthesis of analogues of glycerophosphoinositol.

Name and address of employer Institute of Biomolecular Chemistry of the National Research Council, Italy, (ICB-CNR), branch of Catania (Italy)

Type of sector Pharmaceutical R&D

Dates **January 2012-February 2012**

Position held Researcher under project contract.

Main activities and responsibilities Studies on the composition of biological matrices.

Name and address of employer Dipharma Francis—Baranzate (MI) Italy.

Type of sector Pharmaceutical R&D

Dates	November 2010-September 2011
Position held	Post Doctoral Research Fellow.
Main activities and responsibilities	Synthesis of analogues of glycerophosphoinositol.
Name and address of employer	Institute of Biomolecular Chemistry of the National Research Council Italy, (ICB-CNR), branch of Catania (Italy)
Type of sector	Pharmaceutical R&D
Dates	November 2006–December 2009
Position held	Post Doctoral Research Fellow.
Main activities and responsibilities	Synthesis of analogues of glycerophosphoinositol.
Name and address of employer	Institute of Biomolecular Chemistry of the National Research Council (ICB-CNR) branch of Catania (Italy)
Type of sector	Pharmaceutical R&D
Dates	July 2005-December 2005
Position held	Synthetic organic chemist.
Main activities and responsibilities	Custom synthesis: gram-scale synthesis of not commercially available building blocks for pharmaceutical industries.
Name and address of employer	Charnwood Molecular Ltd, UK.
Type of sector	Pharmaceutical R&D
Dates	October 2001-December 2001
Position held	Research Fellow.
Main activities and responsibilities	Synthesis and characterisation of new organic compounds: diastereoselective synthesis of nucleosides modified at the furanosidic nucleus.
Name and address of employer	Department of Organic Chemistry, University of Catania, Italy
Type of sector	Pharmaceutical R&D.
Dates	February 2001-June 2001
Position held	Research Fellow.
Main activities and responsibilities	Synthesis and characterisation of new organic compounds: diastereoselective synthesis of isoxazolidinic nucleosides of 5-fluorouracile.
Name and address of employer	FIDIA Oftal Company.
Type of sector	Pharmaceutical R&D

Education and training	
Dates	20/07/2007
Title of qualification awarded	PhD.
Principal subjects/occupational skills covered	Organic Chemistry.
Name and type of organisation providing education and training	Loughborough University, (Loughborough, UK).
Dates	01/04/2002-01/04/2005
Title of qualification awarded	PhD student in Organic Chemistry.
Principal subjects/occupational skills covered	Aim of the project: Synthesis of the guaianolide family of natural compounds skeleton through an intramolecular Hetero Diels-Alder reaction and a Carbonyl Ene reaction approach; supervisor Prof. Philip C. B. Page.
Name and type of organisation providing education and training	Loughborough University (Loughborough, UK).
Dates	30/10/2000
Title of qualification awarded	Degree in Pharmaceutical Chemistry and Technologies
Principal subjects/occupational skills covered	Experimental thesis: Synthesis of new chiral auxiliaries analogous of the Oppolzer's sultam; supervisor: Professor Ugo Chiacchio.
Name and type of organisation providing education and training	University of Catania (Catania, Italy)
Research activities	
Research sectors	<ul style="list-style-type: none"> • Organic synthesis: chiral auxiliaries, nucleosides, natural compounds' total synthesis, semisynthesis, synthesis of glycerophosphoinositol's analogues and derivatives, enzymatic biotransformations, functionalisation of flavonoids. • Valorisation of waste materials: quali-quantitative analysis of biological matrices.
Recent scientific activities	Chemical modification of the flavonoid scaffold, synthesis of glycerophosphoinositol's analogues and derivatives, , enzymatic biotransformations, exploitation of waste materials.

Papers

- Enantiorecognition of planar “metallocenic” chirality by a nitrile hydratase/amidase bienzymatic system. *Org. Biomol. Chem.*, **2016**, *14*, 4393; N. D’Antona, R. Morrone, G. Gambera, S. Pedotti.
- Glycerophosphoinositols: total synthesis of the first fluorescent probe derivative. *Synlett.* **2014**, 2111, G. Greco, N. D’Antona, G. Gambera, G. Nicolosi.
- A novel chemo-multienzymatic synthesis of bioactive cyclophellitol and epi-cyclophellitol in both enantiopure forms. *Tetrahedron Asymm.* **2010**, *21*, 2448, N. D’Antona, R. Morrone, P. Bovicelli, G. Gambera, D. Kubak, L. Martinkova
- An ytterbium-catalysed Intramolecular aldehyde–ene reaction approach to the guaianolide and pseudoguaianolide diterpenoids: Synthesis of the guaiane skeleton, *Synlett.*, **2006**, 3411, P. C. B. Page, G. Gambera, C. M. Hayman, M. Edgar.
- Synthesis of new chiral bicyclic sultams and their use as auxiliaries in asymmetric conjugate addition of Grignard reagents, *Tetrahedron: Asymm.* **2002**, *13*, 1915, U. Chiacchio, A. Corsaro, G. Gambera, A. Rescifina, A. Piperno, R. Romeo, G. Romeo.

Additional informations

Participation at meetings and oral communications.

Poster presentations:

- ICB-CNR meeting, Sassari 2016.
- ICB-CNR meeting Pozzuoli 2015.
- BIOTRANS 2011 Meeting, Giardini Naxos.
- RSC Organic Division East Midland Regional Meeting Leicester 2004.
- RSC-SCI IX Joint Meeting on Heterocyclic Chemistry; Urbino 2004.
- RSC post-graduate tour, Newcastle 2003.

Oral communications:

- COST Action CM0701; meeting of the WG 3: Cascade Reactions on the Nitrile Group; Prague 16/05/2009: “Perspectives in the synthesis of novel biomedical valued nitrile derivatives and their biotransformations”.
- 3rd Indo-Italian seminar on Green Chemistry, Delhi, 9th December 2009: “Nitrile hydratase catalysed preparation of NSAIDS”.

Personal skills and competences

Mother tongue

Italian.

Other language

English.

Self-assessment

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
Good	Good	Good	Good		Good

Organisational skills and competences

Good knowledge of laboratory safety rules.
Good ability in problem solving.
Good ability in working in a team.

Technical skills and competences	<ul style="list-style-type: none"> • Identification of synthetic procedures towards target molecules. • Structural determination of the synthesised molecules through NMR spectroscopy. • Practical experience about multiscale and multistep organic synthesis. Familiar with many important synthetic methodologies such as Diels-Alder, Ene, aldol reactions, Pd catalysed coupling, silylation, esterification, catalytic hydrogenation, oxidation, reduction, 1,3-dipolar cycloaddition, Michael reaction by organometallics, green chemistry procedures such as stereoselective enzymatic transformations. • Practical experience about qualitative- quantitative evaluation of biological matrices. <p>Good knowledge (theoretical and practical) of column chromatography (FLASH, VACUUM), HPLC (analytical and preparative), LC-MS, LC-ELSD, GC-MS, distillation, polarimetry, Spectroscopy as FT-IR and FT-NMR (VARIAN 200 MHz, BRUKER 250 & 400 MHz).</p> <p>Good knowledge of Beilstein, SciFinder and Reaxys databases.</p>
Computer skills and competences	<p>Good knowledge of various softwares: Windows, Word, PowerPoint, ISISDraw, ChemSketch, ChemOffice.</p>

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PERSONALI,
INFORMATIVA E
CONSENSO**

Il D.Lgs. 30/6/2003, n. 196 “*Codice in materia di protezione dei dati personali*” regola il trattamento dei dati personali, con particolare riferimento alla riservatezza, all’identità personale e al diritto di protezione dei dati personali; l’interessato deve essere previamente informato del trattamento .

La norma in considerazione intende come “trattamento” qualunque operazione o complesso di operazioni concernenti la raccolta, la registrazione, l’organizzazione, la conservazione, la consultazione, l’elaborazione, la modifica, la selezione, l’estrazione, il raffronto, l’utilizzo, l’interconnessione, il blocco, la comunicazione, la diffusione, la cancellazione e la distruzione di dati, anche se non registrati in una banca dati.

In relazione a quanto riportato, autorizzo il CNR al trattamento dei dati contenuti nel presente *curriculum vitae* e nella documentazione della quale fa parte integrante

(*barrare la casella*)

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