



# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Lucia Cimarelli**

## Desired employment / Occupational field

### **Molecular Scientific Research**



"The future belongs to those who believe in the beauty of their dreams".

Eleanor Roosevelt

"Science is nothing that a slow discovery of what already exists".

Sister Bernadette

## Education

Dates	July 11 <sup>th</sup> , 2017
Title of qualification awarded	<b>Ph.D. in Life and Health Sciences</b>
Principal subjects/occupational skills covered	Curriculum: <b>Molecular and Cellular Biotechnology</b> Title of thesis: " <i>Design and development by DNA chip technology of molecular probes for the selective detection of freshwater diatoms</i> ".
Name and type of organisation providing education and training	International School of Advanced Studies, University of Camerino, Italy
Level in national or international classification	<b>Excellent</b>
Dates	July 2013
Title of qualification awarded	<b>Master Degree in Biomolecular and Biofunctional Sciences</b>
Principal subjects/occupational skills covered	Curriculum: <b>Molecular Biology</b> Dissertation: " <i>Sonde molecolari basate su acidi nucleici di diatomee bentoniche. Disegno, sviluppo e applicazione per il monitoraggio delle acque dolci</i> ".
Name and type of organisation providing education and training	School of Biosciences and Biotechnology, University of Camerino, Italy
Level in national or international classification	Score <b>110/110 cum laude</b>
Dates	December 2008
Title of qualification awarded	<b>Bachelor Degree in Biotechnology</b>
Principal subjects/occupational skills covered	Curriculum: <b>Microbial</b> Dissertation: " <i>Studio in-silico dell'evoluzione dei genomi degli streptococchi di gruppo A</i> ".
Name and type of organisation providing education and training	Faculty of Pharmacy and of Science and Technology, University of Camerino, Italy
Level in national or international classification	Score <b>110/110</b>
<b>Training</b>	
Dates	June 2018
Title of qualification awarded	<b>Attendance at the "XII National Congress of the Italian Society of Pharmaceutical Microbiology" (SIMiF)</b>
Principal subjects/occupational skills covered	<b>Poster Presentation:</b> " <i>Identification of inhibitors of protein synthesis targeting multi-drug resistant Staphylococcus aureus</i> "
Name and type of organisation providing education and training	School of Biosciences and Veterinary Medicine, University of Camerino, Italy
Dates	May 2018
Title of qualification awarded	<b>Attendance at "Cortona Procarioti 2018" Congress</b>
Name and type of organisation providing education and training	Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGBM) and Associazione Genetica Italiana (AGI), Cortona, Tuscany, Italy
Curriculum vitae of Cimarelli Lucia	

Dates	July 2016
Title of qualification awarded	<b>Attendance at the “II International Conference on Clinical Sciences and Drug Discovery” (CSDD-2016)</b>
Principal subjects/occupational skills covered	<b>Poster Presentation:</b> “ <i>Screening an archetypal collection of microorganisms for the presence of unexplored antimicrobial compounds</i> ”
Name and type of organisation providing education and training	University of Dundee, Dalhousie Building, Old Hawkhill, Dundee DD1 5EN, Scotland, United Kingdom
Dates	May 2016
Title of qualification awarded	<b>Attendance at “Cortona Procarioti 2016” Congress</b>
Name and type of organisation providing education and training	Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGBM) and Associazione Genetica Italiana (AGI), Cortona, Tuscany, Italy
Dates	October 2014
Title of qualification awarded	<b>Attendance as invited speaker at the International Scientific Symposium “Small Solutions for Big Water-Related Problems – Innovative microarrays and small sensors to cope with water quality and food security”</b>
Principal subjects/occupational skills covered	<b>Oral Presentation:</b> “ <i>Towards the molecular evaluation of water quality levels: technical problems, successes and perspectives in the detection of biomarker diatoms by microchip hybridization</i> ”
Name and type of organisation providing education and training	Italian National Institute for Health (ISS), Rome, Italy
Dates	May 2014
Title of qualification awarded	<b>Attendance as invited speaker at “Cortona Procarioti 2014” Congress</b>
Principal subjects/occupational skills covered	<b>Oral Presentation:</b> “ <i>Detection of potentially toxic Amphora coffeaeformis</i> ”
Name and type of organisation providing education and training	Scuola di Genetica di Cortona, Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGBM) and Associazione Genetica Italiana (AGI), Italy
Dates	October 2011
Title of qualification awarded	<b>Europass Mobility Passport (EM n° IT/00/2011/585/10)</b>
Principal subjects/occupational skills covered	<b>Activities carried out to gain a first experience of working in an international environment: literature research, extraction of compounds, data analysis.</b>
Name and type of organisation providing education and training	Education and Culture Lifelong Learning Programme “LEONARDO DA VINCI” (Project n° LLP-LdV-PLM-10-IT-226)
Dates	March 2011
Title of qualification awarded	<b>Attendance Foreign Language Course</b>
Principal subjects/occupational skills covered	<b>“English Language and Culture Course”</b>
Name and type of organisation providing education and training	Training Vision Ltd, Unit 205 Victory Business Centre, Somers Road North, Portsmouth, Hampshire PO1 1PJ, United Kingdom
Level in national or international classification	<b>B1 level</b>
Dates	November 2010
Title of qualification awarded	<b>Attendance Training Course “Leonardo da Vinci”</b>
Principal subjects/occupational skills covered	<b>“Best Skills in Motion – BESKIMO”</b>
Name and type of organisation providing education and training	Education and Culture Lifelong Learning Programme LEONARDO DA VINCI (Project n° LLP-LdV-PLM-10-IT-226)
Dates	October 2008
Title of qualification awarded	<b>Attendance at the “36<sup>th</sup> National Congress of the Italian Society of Microbiology (SIM)”</b>
Principal subjects/occupational skills covered	<b>Poster Presentation:</b> “ <i>Il contributo degli elementi genetici esogeni alla variabilità genetica negli streptococchi di gruppo A misurata con la macrorestrizione con Smal e la PFGE</i> ”
Name and type of organisation providing education and training	Italian National Institute of Health (ISS), Rome, Italy
Dates	March 2000
Title of qualification awarded	<b>Attendance Foreign Language Course</b>

Principal subjects/occupational skills covered	<b>“Intensive English Language Course”</b>
Name and type of organisation providing education and training	Emerald Cultural Institute, 10 Palmerston Park, Rathgar, Dublin 6, Ireland
Level in national or international classification	<b>Pre-Intermediate level</b>
<b>Work experience</b>	
Dates	October 2017 – June 2018
Occupation or position held	<b>Supervisor</b>
Main activities and responsibilities	<b>Training and supervision of a master student (Master degree in Biological Sciences) working on: “Identification and purification of secondary metabolites highly active against multi-drug resistant <i>S. aureus</i>, obtained from an in-house culture collection.”</b>
Name and address of employer	Laboratory of Molecular Genetics, School of Biosciences and Veterinary Medicine, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	February 2017 – February 2018
Occupation or position held	<b>Tutoring</b>
Main activities and responsibilities	<b>Placement Tutor of a thesis (Bachelor degree in Biosciences and Biotechnology) in: “Experimental setup for the isolation and characterization of <i>Streptomyces</i> species from soil samples.”</b>
Name and address of employer	Laboratory of Molecular Genetics, School of Biosciences and Veterinary Medicine, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	May 2017 – December 2017
Occupation or position held	<b>Post-Doctoral fellowship</b>
Main activities and responsibilities	<b>Working on the project: “Characterization of secondary metabolites produced by microbial consortia containing diatoms, isolated from water and soil samples”</b>
Name and address of employer	Laboratory of Molecular Genetics, School of Biosciences and Veterinary Medicine, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	May 2014 – May 2017
Occupation or position held	<b>Ph.D. student in the Laboratory of Dr. Roberto Spurio</b>
Main activities and responsibilities	<b>Working on the project: “Design and development by DNA chip technology of molecular probes for the selective detection of freshwater diatoms”</b>
Name and address of employer	Laboratory of Molecular Genetics, School of Biosciences and Veterinary Medicine, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	May 2015
Occupation or position held	<b>Guest Speaker at the “Festival of Education 2015 (IV Edition), Jesi – Italy”</b>
Main activities and responsibilities	<b>Promotion of the project for the dissemination of scientific culture to students, citizen and new generations by games, laboratory and interactive activities</b>
Name and address of employer	Istituto Professionale di Stato per l’Industria e l’Artigianato - IPSIA E. Pieralisi, Jesi (AN) – Italy
Type of business or sector	Public Secondary School
Dates	June 2014 – July 2014
Occupation or position held	<b>Working Stage</b> [EU-funded FP7 research project (MicroAQUA)]
Main activities and responsibilities	<b>Validation of oligonucleotide DNA probes by microarray experiments</b>
Name and address of employer	Scienion AG – Volmerstraße 7b, D-12489 Berlin, Germany
Type of business or sector	Private Research Centre
Dates	January 2014
Occupation or position held	<b>Working Stage</b> [EU-funded FP7 research project (MicroAQUA)]
Main activities and responsibilities	<b>Specificity assays of molecular probes on DNA microarray</b>
Name and address of employer	Scienion AG – Volmerstraße 7b, D-12489 Berlin, Germany
Type of business or sector	Private Research Centre
Dates	November 2013 – April 2014
Occupation or position held	<b>Internship abroad</b> [University of Camerino-funded fellowship for training abroad]

Main activities and responsibilities	<b>Cyanobacteria culturing techniques and bacteriophages isolation from environmental samples of freshwater</b>
Name and address of employer	School of Biological Sciences – University of Portsmouth, King Henry Building, King Henry 1 Street, Portsmouth P01 2DY, United Kingdom
Type of business or sector	Public Research Centre
Dates	July 2013
Occupation or position held	<b>Working Stage</b> [EU-funded FP7 research project (MicroAQUA)]
Main activities and responsibilities	<b>Specificity assays of molecular probes on DNA microarray</b>
Name and address of employer	Scienion AG – Volmerstraße 7b, D-12489 Berlin, Germany
Type of business or sector	Private Research Centre
Dates	June 2011 – July 2013
Occupation or position held	<b>University internship</b>
Main activities and responsibilities	<b>Isolation of freshwater diatoms, DNA/RNA extractions and probe design</b>
Name and address of employer	Laboratory of Molecular Genetics, School of Biosciences and Biotechnology, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	December 2012
Occupation or position held	<b>Laboratory Workshop</b> [EU-funded FP7 research project (MicroAQUA)]
Main activities and responsibilities	<b>Use of DNA chips for the analysis of environmental samples</b>
Name and address of employer	Scienion AG – Volmerstraße 7b, D-12489 Berlin, Germany
Type of business or sector	Private Research Centre
Dates	August 2012
Occupation or position held	<b>Training exchange</b> [EU-funded FP7 research project (MicroAQUA)]
Main activities and responsibilities	<b>Methods for cyanobacterial culture, DNA/RNA extractions, cyanophage assays</b>
Name and address of employer	School of Biological Sciences – University of Portsmouth, King Henry Building, King Henry 1 Street, Portsmouth P01 2DY, United Kingdom
Type of business or sector	Public Research Centre
Dates	March 2011 – May 2011
Occupation or position held	<b>Internship abroad</b> [Leonardo da Vinci “Best Skills in Motion - BESKIMO” Project]
Main activities and responsibilities	<b>Algal culturing techniques, extraction of bioactive compounds, screening of biological activities</b>
Name and address of employer	School of Biological Sciences – University of Portsmouth, King Henry Building, King Henry 1 Street, Portsmouth P01 2DY, United Kingdom
Type of business or sector	Public Research Centre
Dates	December 2007 – December 2008
Occupation or position held	<b>University internship</b>
Main activities and responsibilities	<b>Genome analysis; redefinition of the Pulsed Field Gel Electrophoresis conditions; modelling simulated <i>in silico</i></b>
Name and address of employer	Laboratory of Microbiology, Department of Biology, University of Camerino, Italy
Type of business or sector	Public Research Centre
Dates	April 2000 – May 2000
Occupation or position held	<b>Internship abroad</b> [Leonardo da Vinci “Workers Abroad” Project]
Main activities and responsibilities	<b>Assistance in research and development and in manufacture of cosmetic formulations</b>
Name and address of employer	Oriflame International Research and Development, Blackthorn Road, Sandyford Industrial Estate, Foxrock, Dublin 18, Ireland
Type of business or sector	Cosmetic Industry
Dates	March 2000
Occupation or position held	<b>Internship abroad</b> [Leonardo da Vinci “Workers Abroad” Project]
Main activities and responsibilities	<b>Assistance in the public sale of drugs</b>
Name and address of employer	Bates Pharmacy, Superquinn Shopping Centre, Knocklyon, Templeogue, Dublin 16, Ireland
Type of business or sector	Pharmacy

## Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B2	Independent user	B2	Independent user	B1	Independent user	B2	Independent user
A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(\*) [Common European Framework of Reference for Languages](#)

**March 2000 – Certificate of attendance of an Intensive English Language Course - Pre-Intermediate level**

**March 2011 – Certificate of attendance of an English Language and Culture Course - B1 level**

Social skills and competences

Good ability to work in groups and interact with people of different nationalities and cultures thanks to my internship experience gained abroad and my stay for several months in Irish and English families; I have **excellent communication skills** that I gained through my experience as waitress.

Organisational skills and competences

Ability to **participate at conferences** and to present the research results by oral presentations and by poster presentations.

I organize my own work, setting priorities and taking responsibilities (skill gained with different professional experience listed above).

Technical skills and competences

Ability to use **specific bioinformatics tools for the analysis of DNA** (NCBI, BLASTn, Muscle) as well as **for the analysis of proteins** (Expasy) and **for the design of oligonucleotide primers** (Primer3). Good experience in **protein isolation** and **purification**. Very extensive experience in the manual **isolation of microorganisms** collected from various environmental samples. This skill has been instrumental for **development and maintenance of the culture collection** set-up at the University of Camerino, Italy.

Computer skills and competences

Good command of Microsoft Office tools, particularly Word and PowerPoint.

Good **ability to surf** with Internet for literature searching using Pubmed database, as well as good **ability to share** and access scientific output, knowledge and expertise on social networks like ResearchGate and LinkedIn or on academics platforms such as Academia.edu and Google Scholar, skills gained during PhD studies.

Other skills and competences

I am **attentive to details** and I am a **lover of the natural landscape**, especially of the countryside.

**I love to read**, in particular scientific journals.

Driving licence

Category B

## Additional information

## GRANTED PROJECTS

**2015 – 2016:** Direct involvement in a public grant financed by the Italian Ministry of Education, Universities and Research – **Project for the dissemination of scientific culture:** “*Strumenti per la valutazione dei microrganismi presenti in un campione d'acqua dolce: dal microscopio ottico alle analisi molecolari. Una ricerca che conduce alla produzione di strutture sintetiche prendendo come modello le stampanti 3D biologiche*”, Law No. 113/91 (D.D. 2216 - 01/07/2014 - Titolo 2 - PANN14T2\_00536).

The research activities have been carried out at the University of Camerino (Italy), while the teaching and dissemination activities have been carried out at the Istituto Professionale di Stato per l'Industria e l'Artigianato - IPSIA E. Pieralisi, Jesi (AN) – Italy.

**2011 – 2014:** Direct involvement in the EC grant “**MicroAQUA: Universal microarrays for the evaluation of fresh-water quality based on detection of pathogens and their toxins**”, project No. 265409 (call FP7-KBBE-2010-4, funding scheme collaborative project).

The research activities have been carried out at the University of Camerino (Italy), at the University of Portsmouth (UK) and at the Scienion AG (Germany).

## PUBLICATIONS

**Cimarelli L., Giuliadori A., Brandi A., Adamkiewicz K., Spurio R., Fabbretti A.** “*Screening an archetypal collection of microorganisms for the presence of unexplored antimicrobial compounds*”. **BioDiscovery 2017, 20: e10763.**

Rodriguez I., Fraga M., Alfonso A., Guillebault D., Medlin L., Baudart J., Jacob P., Helmi K., Meyer T., Breitenbach U., Holden N.M., Boots B., Spurio R., **Cimarelli L.**, Mancini L., Marcheggiani S., Albay M., Akcaalan R., Köker L., Botana L.M. “*Monitoring of freshwater toxins in European environmental waters by using novel multi-detection methods*”. **Environmental Toxicology and Chemistry 2017, 36, 645-654.** (This article is protected by copyright. All right reserved. © 2016 SETAC).

Greer B., McNamee S. E., Boots B., **Cimarelli L.**, Guillebault D., Helmi K., Marcheggiani S., Panaiotov S., Breitenbach U., Akcaalan R., Medlin L. K., Kittler K., Elliott C. T., Campbell K. “*A validated UPLC-MS/MS method for the surveillance of ten aquatic biotoxins in European brackish and freshwater systems*”. **Harmful Algae 2016, 55, 31-40.**

Marcheggiani S., Spurio R., **Cimarelli L.**, Tito D., Mancini L. *Scientific Symposium “Small Solutions for Big Water Related Problems: Innovative Microarrays and Small Sensors to Cope with Water Quality and Food Security”*. **Int. J. Environ. Res. Public Health 2015, 12, 15400-15408.**

**Cimarelli L.**, Singh K. S., Mai N. T. N., Dhar B. C., Brandi A., Brandi L., Spurio R. “*Molecular tools for the selective detection of nine diatom species biomarkers of various water quality levels*”. **Int. J. Environ. Res. Public Health 2015, 12, 5485-5504.**

Dhar B. C., **Cimarelli L.**, Singh K. S., Brandi L., Brandi A., Puccinelli C., Marcheggiani S., Spurio R. “*Molecular detection of a potentially toxic diatom species*”. **Int. J. Environ. Res. Public Health 2015, 12, 4921-4941.**

**Cimarelli L.**, Brandi A., Brandi L., Singh K. S., Dhar B. C., Gualerzi C. O., Spurio R. “*Towards the molecular evaluation of water quality levels: technical problems, successes and perspectives in the detection of biomarker diatoms by microchip hybridization*”. In: Marcheggiani S, Spurio R, D’Ugo E, Mancini L (Ed.). *Scientific Symposium “Small Solutions for Big Water-Related Problems – Innovative microarrays and small sensors to cope with water quality and food security”*. **Istituto Superiore di Sanità. Rome, 26-28 October 2014. Abstract book. Roma: Istituto Superiore di Sanità; 2014; ISTISAN Congressi 14/C6: 13.**

Vitali L. A., **Cimarelli L.**, Petrelli D., Di Luca M. C., D’Ercole S., Prenna M., Ripa S. “*Il contributo degli elementi genetici esogeni alla variabilità genetica negli streptococchi di gruppo A misurata con la macrorestrizione con SmaI e la PFGE*”. **Bollettino della SIM 2008; Anno 10 – N.1, p. 53.**

## POSTER PRESENTATIONS

**June 21<sup>st</sup> - 22<sup>nd</sup> 2018:** XII National Congress of the Italian Society of Pharmaceutical Microbiology (SIMiF) – University of Camerino, Italy. [Poster title: “*Identification of inhibitors of protein synthesis targeting multi-drug resistant Staphylococcus aureus*”].

**July 27<sup>th</sup> - 29<sup>th</sup> 2016:** II International Conference on Clinical Sciences and Drug Discovery (CSDD-2016) – University of Dundee, Scotland, United Kingdom. [Poster title: “*Screening an archetypal collection of microorganisms for the presence of unexplored antimicrobial compounds*”].

**May 30<sup>th</sup> 2015:** Festival of Education 2015 (IV Edition), Jesi – Italy. [Poster title: “*Partecipiamo con passione alla ricerca come vincitori del Progetto per la Diffusione della Cultura Scientifica (Legge 113/91 – Bando MIUR)*”].

**October 12<sup>th</sup> - 15<sup>th</sup> 2008:** 36<sup>th</sup> National Congress of the Italian Society of Microbiology (SIM) – Italian National Institute for Health (ISS), Rome (Italy). [Poster title: “*Il contributo degli elementi genetici esogeni alla variabilità genetica negli streptococchi di gruppo A misurata con la macrorestrizione con SmaI e la PFGE*”].

### **PARTICIPATION AT CONGRESSES AS INVITED SPEAKER**

**October 26<sup>th</sup> - 28<sup>th</sup> 2014:** Invited lecturer at the International Scientific Symposium “Small Solutions for Big Water-Related Problems – Innovative microarrays and small sensors to cope with water quality and food security” – Italian National Institute for Health (ISS), Rome (Italy). [Presentation title: “*Towards the molecular evaluation of water quality levels: technical problems, successes and perspectives in the detection of biomarker diatoms by microchip hybridization*”].

**May 15<sup>th</sup> - 17<sup>th</sup> 2014:** Invited lecturer at “Cortona Procarioni 2014” Congress – Cortona, Tuscany (Italy). [Presentation title: “*Detection of potentially toxic Amphora coffeaeformis*”].

### **OTHER ACTIVITIES**

**May 2017:** Penn Foster American Proctor [examiner for a proctored final exam].

**October 2014:** Part of secretariat team of an International Scientific Symposium [Rome (Italy)].

Authorize the use of my personal data in accordance with Legislative Decree 30<sup>th</sup> June 2003, n. 196 “Code for the protection of personal data”.

25<sup>th</sup> July 2018