

Tania Triscari Barberi

Date of Birth: 03.10.1985 - Nationality: Italian

School of Chemistry, University of St Andrews, North Haugh, St. Andrews, Fife. KY16 9ST

E-mail: tbt@st-andrews.ac.uk

I am a Molecular Microbiologist with research interests in the development of whole cell catalysts, with particular focus on engineering microbial biofilms as platform for biotransformations. Biofilms are known for their robustness and ability to withstand harsh environmental conditions, therefore I am working toward harnessing these features to develop a biocatalytic biofilm platform in which enzymes of choice are produced, enabling me to carry out biotransformations in continuous flow systems.

Employment record

Post-doctoral research associate, School of Chemistry, University of St Andrews, supervisor Dr Rebecca Goss

October 2013 – Present

Previous Employment Record

Teaching Assistant, Molecular and Cellular Biology, University of Bologna (Italy)

Organization of teaching and lab activities for Master students in Cellular and Molecular Biology

January 2011 - December 2011

Education

PhD in Cellular, Molecular and Industrial Microbiology, University of Bologna (Italy), supervisor Prof. Davide Zannoni

January 2010 – April 2013

Visiting PhD student at the University of Calgary (Canada), supervisor Prof. Raymond J. Turner

February 2012 – December 2012

MSc in Cellular and Molecular Biology, Biology Faculty, University of Catania (Italy), supervisor Prof. Stefania Stefani

October 2007 – July 2009

BSc in Biological Sciences, Biology faculty, University of Catania (Italy), supervisor Prof. Stefania Stefani

October 2004 – October 2007

Relevant training experiences

Theoretical and practical course “**Radioisotopes in Biology**” at University of Bologna (Italy)

September 12-15, 2011

Theoretical and Practical Course “**Quorum sensing in Plant Associated Bacteria**”, ICGEB (International Centre for Genetic Engineering and Biotechnology, Trieste (Italy))

May 23-26, 2011

“Proteomic analysis and methods for recombinant proteins”, University of Bologna, Italy
February 7-11, 2011

Practical course on **“Calorimetry and Light Scattering, theory and application for the characterization of proteins in solution”**, University of Bologna, Italy
September, 2011

Fellowships

MIUR (Italian Ministry of Instruction, University and Research): 9 months fellowship for international research experience
February 2012

“Marco Polo Research Program”: 9 months fellowship for international research experience
February 2012

MIUR (Italian Ministry of Instruction, University and Research): 3 years PhD fellowship
January 2010

Relevant Skills

- Expertise in nucleic acids manipulation (DNA and RNA isolation, PCR technologies, mutagenesis) and proteomics (protein production and purification)
- Bioinformatics softwares for genome assembly and annotation
- Expertise in general microbiology (clinical, environmental, industrial)
- Informatics (microscopy data analysis softwares, data analysis softwares such as GraphPad Prism)

Publications

- “Genome Sequence of the Polychlorinated-Biphenyl Degradar *Pseudomonas pseudoalcaligenes* KF707”. J Bacteriol 194 (16):4426-7.
- New insights into chemotaxis, aromatic catabolism and respiratory pathways of *Pseudomonas pseudoalcaligenes* KF707: a genomic and functional analysis. Submitted to Appl. Microbiol. Biotechnol..