
BIOGRAPHICAL SKETCH

NAME: di Bernardo, Diego

POSITION TITLE: Full Professor in Biomedical Engineering - Dept. of Chemical Engineering
University of Naples "Federico II", Naples, Italy;

Coordinator of Genomic Medicine Program - Telethon Institute of Genetics and
Medicine (TIGEM), Naples, Italy

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
University of Naples "Federico II" (Italy)	M.Sc.	01/1997	Biomedical Engineering
Newcastle University (UK)	Ph.D.	12/2001	Biomedical Engineering
Wellcome Trust Sanger Institute (Cambridge, UK)	Postdoctoral researcher	05/2002	Bioinformatics
Boston University (USA)	Postdoctoral researcher	12/2002	Biomedical Engineering

A. Personal Statement

My training in biomedical engineering and bioinformatics, together with my expertise in molecular biology enabled me to perform competitive cross-disciplinary research to develop and apply novel technologies with applications to biomedicine and biotechnology. In biomedicine, my focus is the development of integrated experimental and computational approaches to measure and mine – omics data for the elucidation of disease gene function and computational repurposing of small molecules with therapeutic potential. In biotechnology, my research aims at integrating Control Engineering with Synthetic Biology to design robust biomolecular circuits to control gene expression in time and space with applications to biotechnology, such as engineering mammalian cell-lines for production of recombinant AAV vectors, and whole cell biosensors. Research in my lab has been funded by the Italian Fondazione Telethon, the Italian Ministry of Health, the Italian Ministry of Research, the Italian Association for Cancer Research (AIRC) the European Union and the Human Frontier Science Program.

B. Positions and Honors***Professional Experience***

1991 – 1996 M.Sc. Electrical Engineering. University of Naples "Federico II", Italy.
1998 – 2001 Ph.D from the School of Medicine, University of Newcastle, UK. (Prof. Alan Murray)
2001 – 2002 PostDoctoral Fellowship at the Wellcome Trust Sanger Institute in Cambridge, UK.
(Dr Tim Hubbard's lab)
2002 – 2003 PostDoctoral Fellowship at in the Department of Biomedical Engineering, Boston
University, USA. (Prof. Jim Collins' lab)
2003 - to date Principal Investigator, Telethon Institute of Genetics and Medicine, Naples, Italy
2007 – 2015 Research Assistant Professor, University of Naples "Federico II", Italy
2008- to date Coordinator Genomic Medicine Program, Telethon Institute of Genetics and

- Medicine, Naples, Italy
- 2015 - 2022 Associate Professor in Biomedical Engineering, Dept. Chemical, Materials and Production Engineering, University of Naples "Federico II"
- 2022 - 2023 Full Professor in Biomedical Engineering, Dept. Chemical, Materials and Production Engineering, University of Naples "Federico II"

Honors, Awards and Commissions of Trust

- 1998 - 2001 "Marie Curie Fellowship B20", a competitive three-year individual fellowship from the European Union to complete a Ph.D. program at the University of Newcastle, UK.
- 2001 Young Investigator Award for best oral and written presentation at the IEEE Computers in Cardiology conference, Rotterdam, September 23- 26 2001.
- 2002 Human Frontier Science Program Short Term Fellowship at the Center for Biodynamics in Boston University, USA (Prof. Jim Collins'lab)
- 2011 –2014 Member and chair of the HFSP panel for the Long-Term Fellowship Program, of the Career Development Award, and of the Research Programmes.
- 2015 - to date Visiting Scientist – RIKEN Center for Life Science Technologies, Yokohama, Japan