

Elisabetta Sepe

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GENERAL INFORMATIONS

First Name: Elisabetta
Surname: Sepe
Date of birth: 16/08/1991
Place of birth: Roma
Nationality: Italian

EDUCATION

- Nov. 2016 – Present Ph.D. student (XXXII cycle) in “Mathematical Models for Engineering, Electromagnetics and Nanosciences” (curriculum in Electromagnetics) at the Department of Basic and Applied Sciences for Engineering (SBAI) “Sapienza” University of Rome
Supervisors: Prof. F. Michelotti
- Sept. 2013 – Oct. 2016 Master degree in Nanotechnology Engineering (LM-53)
FACOLTA' DI INGEGNERIA CIVILE ED INDUSTRIALE
“Sapienza” University of Rome, Italy
Thesis title: “Experimental development of cancer biomarkers detection assays on a novel label-free and fluorescence sensing platform”
Advisors: Prof. F. Michelotti, Dr. A. Sinibaldi
Graduation mark: 110/110 cum laude
- Sept. 2010 – Jan. 2014 Degree in Clinical Engineering (L-09)
FACOLTA' DI INGEGNERIA CIVILE ED INDUSTRIALE
“Sapienza” University of Rome, Italy
Thesis title: “Tecniche diagnostiche per la microcircolazione”
Advisor: Prof. D. Caputo
Graduation mark: 105/110
- Sept. 2005 – June 2010 High school diploma
Liceo Ginnasio Statale "T. Tasso", Rome
Mark: 89/100

LANGUAGES

Italian: mother tongue
English: fluent (FCE, First Certificate in English, University of Cambridge, B2)

COMPUTER SKILLS

Software: Microsoft Office™ (Word™, Excel™ and PowerPoint™), LaTeX, LabVIEW, MATLAB, COMSOL Multiphysics®, Ansoft HFSS, Mathematica.

RESEARCH INTEREST

Biosensors, nano-photonics, nano-optics, laser-matter interactions, light science for human health and diagnostics, nanophysics, optical techniques for studying biological samples.

ACTIVITIES, SUMMER SCHOOLS & WORKSHOPS

- *School of Photonics Plasmonics and Nano-Optics 2016*, 10 – 14 July 2016, Cortona, Italy;
- *NanoInnovation*, 20 – 23 September 2016, Rome, Italy;
- *Nanoforum*, 12 – 13 October 2016, Milan, Italy;
- *European Schools of Antennas*, 26 – 29 April 2017, Rome, Italy;
- *Galileo Festival dell'Innovazione*, 11 – 13 May 2017, Padua, Italy;
- *Biophysis @Rome2017*, 18 – 19 May 2017, Rome, Italy;
- *ISLiST 2017* (International School on Light Sciences and Technologies), 19 – 23 June 2017, Santander, Spain;
- *BBMEC-12* (12th workshop on Biosensor & Bioanalytical Microtechniques in Environmental, Food & Clinical Analysis), 25–29 September 2017, Rome, Italy.

PAPERS AND OTHER PRODUCTS

Oral contribution (12th Workshop on Biosensor and Bioanalytical Microtechniques in Environmental, Food & Chemical Analysis, Rome, 2017)

"Bloch surface wave biosensors for real-time study of fibronectin-phosphorylcholine coatings for biomedical interactions".

Co-author of the Abstract (12th Workshop on Biosensor and Bioanalytical Microtechniques in Environmental, Food & Chemical Analysis, Rome, 2017)

"High-sensitivity screening of soluble ERBB2 in different cell lines using a combined label-free and fluorescence biosensing platform".