

# Noemi Bellassai

Postdoctoral Researcher  
Dipartimento di Scienze Chimiche  
Università degli Studi di Catania, Catania (Italy)



## Address

Viale Andrea Doria 6, 95125, Catania (Italy)  
e-mail: [noemi.bellassai@unict.it](mailto:noemi.bellassai@unict.it)

## **Research Expertise and Interests**

---

Microfluidics, Biosensors, Optical Analytical Devices, Nanotechnology

## **Education**

---

International Ph.D. in Chemical Sciences, Università degli Studi di Catania, 2018

Master Degree in Biomolecular Chemistry, Università degli Studi di Catania, 2014

## **Professional experience / Research activities**

---

Postdoctoral Researcher in Analytical Chemistry “*Microfluidic devices for ultrasensitive detection of biomarkers*”, Università degli Studi di Catania, 2019

Researcher in “*Ultrasensitive detection of nucleic acids by nanoparticle – enhanced surface plasmon resonance imaging (SPRI)*”, Consorzio Interuniversitario di Ricerca in Chimica dei Metalli nei Sistemi Biologici (C.I.R.C.M.S.B.), 2016-2019

Internship with University of Twente, Molecular Nanofabrication group (MnF), University of Twente, Enschede, The Netherlands, 2017

Researcher in “*Metodi di rivelazione ultrasensibili di acidi nucleici basati su Surface Plasmon Resonance Imaging (SPRI)*”, Università degli Studi di Catania, 2015-2016

Researcher in PON02\_00355\_3416798: “*Elettronica su Plastica per Sistemi “Smart disposable” - PLAST\_Ics*” project, Istituto Nazionale Biostrutture e Biosistemi (I.N.B.B.), Consorzio Interuniversitario, 2014-2015

## **Awards**

---

Best Poster Award in Healthy Research, Istituto Nazionale Biostrutture e Biosistemi (I.N.B.B.), Consorzio Interuniversitario, 2019

Merit-based scholarship of Erasmus Plus Project 2016, Università degli Studi di Catania, 2016

Merit-based scholarship of Bachelor Degree in Chemistry, Dipartimento di Scienze Chimiche, Università degli Studi di Catania, 21012

## Publications

---

Surface plasmon resonance for biomarker detection: advances in non-invasive cancer diagnosis

N. Bellassai, R. D'Agata, V. Jungbluth, G. Spoto, *Front Chem* 2019, 7: 570.

Surface Plasmon Resonance Imaging Biosensors for Cancer Diagnosis: Detection of Circulating Tumor DNA, PhD Thesis

N. Bellassai, Università degli Studi di Catania, 2018.

Low-fouling, mixed-charge poly-L-lysine polymers with anionic oligopeptide side-chains

N. Bellassai, A. Marti, J. Huskens, G. Spoto, *J Mater Chem B* 2018, 6, 7662-7673.

Biosensors for liquid biopsy: circulating nucleic acids to diagnose and treat cancer

N. Bellassai, G. Spoto, *Anal Bioanal Chem* 2016, 408, 7255-7264.

## International & National Conferences

---

The 23rd Annual European Conference on Micro&Nanoscale Technologies for Life Sciences, NanoBioTech-Montreux Conference, Montreux, Switzerland, November 18<sup>th</sup> – 20<sup>th</sup>, 2019.

XIII Convegno Nazionale Ricerca e Innovazione per Ambiente, Salute ed Alimentazione, Consorzio I.N.B.B., Rome, Italy, October 24<sup>th</sup> – 25<sup>th</sup>, 2019.

XXVIII Congresso della Divisione di Chimica Analitica, Bari, Italy, September 22<sup>nd</sup> – 26<sup>th</sup>, 2019.

2nd European Biosensor Symposium, EBS2019, Florence, Italy, February 18<sup>th</sup> – 21<sup>th</sup>, 2019.

The symposium “Bioelectrochemistry, surfaces and more 2019”, Tulln, Austria, February 6<sup>th</sup>, 2019.

XXVII Congresso della Divisione di Chimica Analitica, Bologna, Italy, September 16<sup>th</sup> – 20<sup>th</sup>, 2018.

7th EuCheMS Chemistry Congress, ACC Liverpool, UK, August 26<sup>th</sup> – 30<sup>th</sup>, 2018.

Incontro Spettroscopia Analitica ISA 2018, Cagliari, Italy, June 5<sup>th</sup> – 8<sup>th</sup>, 2018.

Winterschool on Biophotonics and Bioelectronics, Hirschegg, Austria, February 19<sup>th</sup> – 24<sup>th</sup>, 2018.

Congresso Congiunto delle Sezioni Sicilia e Calabria SCI 2018, Catania, Italy, February 9<sup>th</sup> – 10<sup>th</sup>, 2018.

CONVENTIONAL AND HIGH-ENERGY SPECTROSCOPIES FOR INORGANIC, ORGANIC AND BIOMOLECULAR SURFACES AND INTERFACES (CHESS 2017), Florence, Italy, November 27<sup>th</sup> – 30<sup>th</sup>, 2017.

NanoBio&Med2017 Conference, Barcelona, Spain, November 22<sup>nd</sup> – 24<sup>th</sup>, 2017.

14th International Conference on Nanosciences & Nanotechnologies, NN17, Thessaloniki, Greece, July 4<sup>th</sup> – 7<sup>th</sup>, 2017.

Nano and Photonics Conference, Mauterndorf, Salzburg, Austria, March 22<sup>nd</sup> – 25<sup>th</sup>, 2017.

XXV Congresso Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana (SCI), Trieste, Italy, September 13<sup>rd</sup> – 17<sup>th</sup>, 2015.

CNBXI, XI National Congress of Biotechnology, University of Insubria, Varese, Italy, June 27<sup>th</sup> – 29<sup>th</sup>, 2012.