

CV Laura Micheli

Research fields

The research activity of Prof. Micheli is focalized on the study and development of disposable electrochemical tools for the determination of several analyte in food, in clinical and cultural heritage fields, using for their validation spectrophotometric and chromatographic methods. Also she has been involved in the development of immunosensors and interference-free biosensors based on screen printed electrodes (SPEs) in the field of environmental, clinical and food analysis. She collaborates from 2006 until now with the Department of CEMIS-OULU of the University of Oulu for development novel techniques for biosensor platform and new tolls for research. She has been collaborated with private companies (EUROLAB srl, 2005-2010, Systea S.p.A., 2012-now). At the moment, she is involved in the development of new analytical methods for integrated diagnostics in cultural heritage, application of non-invasive protocols to the study of the materials of Cultural Heritage, with particular reference to paper and wood artworks; assessment of conservation strategies in Cultural Heritage, with close collaboration with restorers of library and archive artefacts, in particular with ICRCPAL (Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario).

Curriculum Vitae

Academic career 2014- until now: Associate Professor in Analytical Chemistry and lecturer for the courses of Analytical Chemistry I at the University of Rome Tor Vergata; 2002-2014: Senior Researcher in Analytical Chemistry the University of Rome Tor Vergata; 2010: Adjunct Professor in Analytical Chemistry I, in Analytical Chemistry II and Laboratory of Analytical Chemistry (Bachelor in Chemistry and in Applied Chemistry); 1999: PhD Fellowship at the School of Chemical Sciences of Dublin City University (Ireland) (3 months) 1998-2001: PhD in Chemistry Science at University of Rome Tor Vergata; 1997: Master degree 110/110 cum laude in Industrial Chemistry at University of Rome La Sapienza. **Research Experiences.** The research activity of Prof. Micheli is focalized on the study and development of disposable electrochemical tools for the determination of toxins in food and several analyte in clinical and cultural heritage fields, using for their validation spectrophotometric and chromatographic methods. Also she has been involved in the development of immunosensors and interference-free biosensors based on screen printed electrodes (SPEs) in the field of environmental, clinical and food analysis. In 2008 she involved as a participant in the courses about direct artwork structural diagnosis in the contest of Cultural Heritage Research Meets Practice. She collaborates from 2006 until now with the Department of CEMIS-OULU of the University of Oulu for development novel techniques for biosensor platform and new tolls for research. She received People-exchange-Marie Curie International Research Staff Exchange Scheme IRSES-PEOPLE-2008 at the School of Chemistry University of Melbourne (Australia) and the Department of Chemistry, University of Bath (UK). She has been collaborated with private companies (EUROLAB srl, 2005-2010). At the moment, she is involved in the development of new analytical methods for the assessment of conservation strategies in Cultural Heritage, with close collaboration with restorers of library and archive artefacts. She is often involved as a scientific supervisor in examinations for the achievement of the professional qualification of Restorer of Cultural Heritage. Finally she has been involved as teacher of the lesson: " Using Gellan gel to clean paper artwork (part 2) " in "Colloids and Surfaces in Cultural Heritage: Physico-Chemical Methodologies and New Investigative Approaches" training course in: 30th Conference of The European Colloid and Interface Society, Roma, 4-9-Settembre 2016; as teacher of the lesson "Electrochemical technique for Cultural Heritage" in PhD course during the III

- Her research work had been presented at several national and international scientific meetings. **Research Activity:** 8 chapters on international books, 53 on international scientific papers, 12 proceedings. **Funded Projects:** Prof Micheli is involved in several EU and national research projects: PRIN 2015 – 2015TWP83Z-001, PRIN 2015 – 2015FFY97L Aqua VIR, FP7-NMP-2013-SMALL-7, SMS FP7-OCEAN-2013 n°613844, ACQUASENSE M101_00223 - Industria 2015, GRAPE&HEALTH WINE M101_00308, SONOCAPS FP7-MC-IRSES, n° 230779, PEOPLE-IRSES-2008, BIOCOP FP6, PRIN 2007, 2007AWK85T-003, PRIN 2005 200530782-004, Leonardo da Vinci Training Module n° RO/02/B/F/PP 141004, PRIN 2003 200335285-004, CEE FAIR CT 95-1092 Electrode probes for rapid assay of seafood toxins, CEE QLK1-CT-2001-01617 ROSEPROMILK Robust chemical sensors and biosensor for rapid on-line identification of the freshly collected milk, CEE Novtech H PRN-CT-2002-00186 Novel technology for controlling wine production and quality, AFLARID (DM 290/7303/04) and PRAL 2002/14.

.Publications

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- Moscone D., Volpe G., Arduini F., Micheli L. (2016). Rapid electrochemical screening methods for food safety and quality. *ACTA IMEKO*. 5 (1), 45-50.
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- Mazzuca C., Micheli L., Carbone M., Basoli F., Cervelli E., Iannucelli S., Sotgiu S., Palleschi, A. (2014). Gellan hydrogel as a powerful tool in paper cleaning process: A detailed study. *Journal of Colloid and Interface Science*. 416, 205-11.
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