

## **CAPRIOTTI Annalaura**

### **1. Personal Info**

Name Anna Laura Capriotti

Date of Birth 05/05/1983

Nationality Italian

Gender Female

Current position Associate Professor, Department of Chemistry, Sapienza University of Rome

### **2. Education and training**

- 2009: Master's Degree in Analytical Chemistry (110/110, Sapienza University of Rome)

- 2012: PhD in Analytical Chemistry, Sapienza University of Rome

### **3. Professional Experience**

- Since october 2018: Associate Professor of Analytical Chemistry, Sapienza University of Rome

- 2016: National Scientific Qualification for Full Professor position in Analytical Chemistry SC 03/A1, SSD CHIM/01)

- 2015-2018: Assistant Professor (RTD-B) in Analytical Chemistry at the Chemistry Department of Sapienza University of Rome

- 2012-2015: Assistant Professor (RTD-A) in Analytical Chemistry at the Chemistry Department of Sapienza University of Rome

- Since 2016: Member elect of the Executive Board of the interdivision group of Separation Science of the Italian Chemical Society (Società Chimica Italiana),

- Since 2017: Member of Academic board of PhD in Chemistry Science, Department of Chemistry, Sapienza University of Rome

- Since 2017: Member of Scientific committee of "Centro di Ricerca per le Scienze applicate alla Protezione dell'Ambiente e dei Beni Culturali (CIABC)"

### **4. Current Research Interest**

The research interest of Anna Laura Capriotti is focused on the development of innovative analytical methods in the field of metabolomics, lipidomics, proteomics and peptidomics based on liquid chromatography coupled to high resolution mass spectrometry, for determining substances present in various matrices such as food, water, animal and plant tissues.

### **5. Awards**

- 2018: EuCheMS Lecture Award 2017

- 2018 "The Analytical Scientist Power List 2018, Top 40 Under 40": the best young researchers in analytical science

- 2017: "Primo Levi Award 2017" for the best scientific dissemination by the Italian Chemical Society.

- 2017: “Best Young Researcher in Separation Science” award by the Interdivisional Group of Separation Science of the Italian Chemical Society.
- 2016: Best poster award at XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana.
- 2015: “Best Young Researcher in Analytical Chemistry” award by the Italian Chemical Society.
- 06/2014: Best poster award at VI Convegno Giovani, “Gli orizzonti della Chimica”, La Sapienza University of Rome
- 12/2012: PhD Thesis award by “Sapienza Università Editrice”
- 2012: Best poster award at VI Convegno Giovani “La Chimica per lo sviluppo”, Sapienza University of Rome
- 2011: Fondazione Roma Sapienza award by Sapienza University of Rome
- 2010: Best Master’s degree Thesis by the Italian Chemical Society
- 2010: Best oral presentation at Quarto Convegno Giovani by ELSEVIER

## **6. Visiting periods**

01/2011-07/2011: Visiting PhD student at “Max Delbrück Centrum for Molecular Medicine Berlin Buch member of Helmholtz Association” under the supervision of Prof. Matthias Selbach

## **7. Research grant**

- 2020: Coordinator of Unit of Ager PROJECT – Second Edition (2016), Valorization of Italian Olive products through INnovative analytical tools- VIOLIN. (120,000 euro)
- 2019: Coordinator of “Ricerca scientifica 2018” from Sapienza University of Rome, Development of innovative and high performant analytical methods based on metabolomics and lipidomics for identification of new biomarkers in gut microbiota” (32,000 euro)
- 2019: Coordinator of unit PRIN Project 2017, Cutting Edge Analytical Chemistry Methodologies and Bio-Tools to Boost Precision Medicine in Hormone-Related Diseases (130,000 euro).
- 2017: Coordinator of Unit BRIC Project funded by INAIL, Confronto fra tecniche di microbiologia classica e tecniche alternative chimiche, di biologia molecolare, di metagenomica e metaproteomica, per lo studio del bioaerosol negli ambienti di lavoro (100,000 euro).
- 2017: Coordinator of subunit of European Project, “REsources from URban Bio-waSte” (RES URBIS), call “CIRC05-2016: Unlocking the potential of urban organic waste” Horizon 2020 Work Programme 2016-2017. (50,000 euro).
- 2016: Coordinator of unit PRIN Project 2015 (under 40), “Multifunctional nanotools for advanced cancer diagnostics” (46,284 euro).
- 2016: Coordinator of “Medie Attrezzature 2016” project for the acquisition of medium scientific instrumentation. “Valuable products from agro-food industry waste: isolation of bioactive peptides on laboratory preparative scale by means bidimensional chromatography techniques”. (75,000)

- 2015: Coordinator of “Ricerca scientifica 2015” from Sapienza University of Rome. Project title: “Development of innovative materials for phosphopeptide enrichment”, 8,000 + € 23,450 euro for fellowship.
- 2014: Coordinator of “Ricerca scientifica 2014” from Sapienza University of Rome. Project title: “Identification of bioactive food peptides by “omic” analytical methods” (50,000 euro)
- 2013: Coordinator of “Ricerca scientifica 2013” from Sapienza University of Rome. Project title: “Gel-Free Proteomics analysis for studying Potential Biomarkers of Priming-Induced Salt Tolerance in Durum Wheat” (7,500 euro)
- 2012: Coordinator of “Ricerca scientifica 2012” from Sapienza University of Rome. Project title: “Biomarker discovery: comparison of three different enrichment strategies for serum low molecular weight protein identification” (2,500 euro).

## 8. Scientific production and impact (H-index, citations)

She is author or co-author of more than 140 papers on international peer reviewed journals, four book chapter and one **patent**. He has extensively presented her work in international academic and business conferences.

H-index: 34, Citations: 3738 (Scopus)

## 9. Referee evaluator activity

- Since 2018: Member of the Editorial board of *Molecules*, MDPI
- Since 2017: Member of the Editorial board of *Journal of Essential Oil Research*, Taylor and Francis Online
- Guest Editor of Special issue “Advances in Liquid Separation Techniques for Food and Pharmaceutical Analysis” for *Molecules* (2018), MDPI
- Guest Editor of Special issue in Topical Collection “Analytical Challenges in the Discovery of Bioactive Compounds” for *Analytical and Bioanalytical Chemistry* (2018), Springer
- Guest Editor of Special issue “Recent trends in solid-phase extraction for environmental, food and biological sample preparation” for *Chromatographia* (2019), Springer.
- Reviewer for: *Analytical Chemistry*, *Analytical and Bioanalytical Chemistry*, *Agricultural magazine*, *Analytica Chimica Acta*, *Biomedical Chromatography*, *Current Pharmaceutical design*, *Expert Opinion on drug delivery*, *Food Analytical Methods*, *Food Chemistry*, *Interdisciplinary Sciences Computational Life Sciences*, *International Journal of Food Properties*, *Journal of Functional Food*, *International Journal of Molecular Science*, *International Journal of Nanomedicine*, *Journal of Agricultural Science and Technology*, *Journal of Proteome Research*, *Journal of Proteomics*, *Journal of Separation Science*, *Journal of Chromatography A*, *Marine Drugs*, *Natural Product Research*, *Proteome Science*, *RSC Advances*, *Talanta*, *TrAC-Trends in Analytical Chemistry*.

## 10. Invited talks

- EURO Analysis 2019, Plenary lecture: Separation and Enrichment of Peptides and Amino Acids: a Piece in the Puzzle of the Bioactivity of Protein Derivatives, 1-5 September, Istanbul.

- 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques (HPLC 2019), Separation and Enrichment of Peptides and Amino Acids: a Piece in the Puzzle of the Bioactivity of Protein Derivatives”, 16-22 June, Milano
- 2nd International Symposium on Bioactive peptides, Separation and Enrichment of Peptides and Amino Acids: a Piece in the Puzzle of the Bioactivity of Protein Derivatives, 22-24 May, Valencia, Spain.
- XXVI Congresso della Società Chimica Italiana (SCI), Paestum (Sa), A new magnetic graphitized carbon black TiO<sub>2</sub> composite for phosphopeptide selective enrichment in shotgun phosphoproteomics, 2017
- Giornate di chimica analitica in memoria del Prof. Francesco Dondi “Recenti sviluppi in Scienze delle Separazioni e Bioanalitica”: “Recent trends in bioactive peptides analysis”, 2017, Ferrara.
- XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana (SCI): “Recent trends in analysis of bioactive peptides in food”, 2016, Giardini Naxos (ME)
- Settimo Convegno Giovani Le frontiere della chimica nel nuovo millennio: “Sfida e potenzialità delle scienze “omiche” nello studio di matrici complesse, 2016, Roma
- XXV Congresso della Divisione di Chimica Analitica: “Omic analysis of different complex samples: a challenging but powerful approach, 2015, Trieste.
- Invited seminary: Analytical platform for the proteome analysis of non model plant species,” Area della Ricerca di Roma 1 (CNR), 2013, Montelibretti (RM).

## **11. Teaching activity**

At Sapienza University of Rome:

- Since 2014/2015: “Environmental Chemistry” (6 CFU) in Master’s Degree in Analytical Chemistry.
- Since 2014/2015: “Analytical Chemistry 1 with Lab”, Bachelor’s Degree in Chemistry.
- 2012-2014: Environmental Chemistry in the Bachelor’s Degree Course of Environmental Science.

Since 01/2016 Council Member of Interdivisional Group of Separation Science, Analytical Chemistry Division (Italy).