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Synthesis and characterization of squaramide-based supramolecular polymers

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Curriculum vitae

Francesca Lauria was born on the 11th of December 1990 in Naples, Italy. From 2004 until 2009 she attended the scientific high school in Caserta graduating with the maximum score. Afterwards, she pursued her scientific interest attending the Bachelor degree in Chemistry at the University of Naples “Federico II” (2009-2012). She obtained her BSc with honours (110/110 summa cum laude) and the topic of her Bachelor thesis was the physico-chemical investigation of the interaction of a telomeric G-quadruplex with porphyrin-peptide conjugates as potential anticancer applications.



Francesca decided to continue her scientific education and obtained a Master degree in “Chemical Sciences” at University of Naples again with honors (110/110 summa cum laude) in 2014. During her master thesis she continued working with nucleic acids performing physico-chemical characterization of telomeric G-quadruplexes containing a modified thymine.

Before to start the PhD, she worked as research assistant at IIT (Istituto Italiano di Tecnologia) in Naples focusing on the preparation of nanoemulsions using layer-by-layer deposition technique for diagnostic and therapeutic applications (2014-2015). In May 2015 Francesca started her PhD at Supramolecular & Biomaterials Chemistry department of the Faculty of Science - University of Leiden under the supervision of Dr. Roxanne Kieltyka in the group of Prof. Dr. Alexander Kros. During her PhD, she expanded her knowledge in the supramolecular polymers field. In particular, her work was focused on the design, synthesis and characterization of squaramide-based supramolecular polymers in aqueous solution.

After 6 months of Internship at Rebel Nature Cosmetics Laboratory (November 2020-April 2021), from June 2021 until the end of the year, she worked as a Quality Control Analyst at Wacker Biotech in Amsterdam where she validated analytical methods by HPLC/UPLC according to the ICH guidelines. From January 2022, she works at Quality Control Department (Method, Implementation and Transfer) of Teva Pharmaceuticals in Haarlem.

List of publications

1. Victorio Saez Talens, Joyal Davis, Chia-Hua Wu, Zhili Wen, **Francesca Lauria**, Karthick Babu Sai Sankar Gupta, Raisa Rudge, Mahsa Boraghi, Alexander Hagemeijer, Thuat T. Trinh, Pablo Englebienne, Ilja K. Voets, Judy I. Wu, and Roxanne E. Kieltyka. Thiosquaramide-Based Supramolecular Polymers: Aromaticity Gain in a Switched Mode of Self-Assembly. *J. Am. Chem. Soc.* 2020, 142, 19907–19916.