

Curriculum vitae of Dr. Francesca Ceccacci

Present position: CNR Research Scientist at CNR- Institute of chemical methodologies from 16/06/2014.

Expertise is in the field of colloid chemistry and physical organic chemistry as well as in organic synthesis. Her research activity has been focused on polymolecular aggregates, such as micelles and liposomes, investigated as bio-membrane models and as drug delivery systems.

Previous Positions

- 2013-2014 Research Associate on the topic: *"Synthesis and characterization of mitochondriotropic bolalipids and formulations of liposomes in the presence and in the absence of anti-oxidants"* (call IMC-SMR 0113-RM) at CNR- Institute of chemical methodologies.
- 2013 Research Associate on the topic: *"Synthesis of bioactive compounds."* at the Chemistry Department of the University Sapienza.
- 2009-2012 Research Associate on the topic: *"Enantioselective synthesis of Oryzalexin S"* at the Chemistry Department of the University of Rome Sapienza.
- 2008 Post doctoral fellowship on the topic: *"Synthesis of the system of the A and B rings of Oryzalexin S"* at the Chemistry Department of the University of Rome Sapienza.
- 2006-2008 Post doctoral fellowship on the topic: *"Development of new strategies and methodology for the synthesis of polycyclic terpenes"* at the Chemistry Department of the University of Rome Sapienza.
- 2006 Contract with the pharmaceutical industry "Euticals" for research activity on the topic: *"Novel estrogenic drugs for wound healing"*.
- 2005 Post doctoral fellowship on the topic: *"Investigation for the synthesis of bioactive compounds"* at the Chemistry Department of the University of Rome Sapienza.
- 2004-2005 Post doctoral fellowship on the topic: *"Investigation on the synthesis of bioactive polycyclic diterpenes"* at the Chemistry Department of the University of Rome Sapienza.
- 2003-2004 CNR post doctoral fellowship (call IMC n°34) on the topic: *"Chiral recognition in membrane models"*.

Education

- 2016 Won the competition for teaching chemistry at the high school
- 2013 Teaching qualification -Tirocinio Formativo Attivo Class A013 (Chemistry and chemical technologies, 98/100)
- 2004 PhD in Chemical Science, Thesis Title: *"Chiral recognition in membrane models"*, University Sapienza

2000 Laurea in Chemistry *cum laude*, Thesis Title: "Role of the chiral nitrogen in the deracemization of atropoisomers in molecular aggregates", University Sapienza

Participation in projects

As PI

-In the frame of the project of CNCCS (National Collection of Compounds and Chemical Screening Center) "Creation of a center for the research in the field of Rare, Neglected and Poverty-Related disease" (collaboration between CNR, the Italian Institute of Health and the industry IRBM Science Park), responsible of the CNR-IMC unit for the research activity on "Development of liposomal formulations for drug delivery to the central nervous system"

As co-investigator

-Merit Miur Project: "Role of oxidative stress in the modulation of muscle homeostasis and therapeutic approach by antioxidants delivered by targeted liposomes (RBFR12BUMH)"

As co-investigator

-Project "CARESS- A new methodology based on an advanced molecular probe for early detection of DPD enzyme deficiency in oncological patients, also enabling a personalised and effective drug management. (FP7-SME2012-315398)"

Assignments

2018 Chairperson of the event "NANOMEDICINE SCHOOL ROME 2018", Rome, Istituto Superiore di Sanità, 21 June 2018

2018 Member of the Organizing Committee of the international conference "Nanomedicine - Rome 2018", Rome, Istituto Superiore di Sanità, 18-20 June 2018

2018 Member of the Organizing Committee of the Italian conference on Supramolecular Chemistry entitled "CHIMICA SUPRAMOLECOLARE: GIORNATA DEI DOTTORANDI" ,National Research Council (CNR), Rome, 24- 25 May 2018.

2016 Member of the Scientific Committee of the international conference "Nanomedicine - Viterbo 2016"

2014 Member of the Scientific Committee of the international conference "Nanomedicine - Viterbo 2014"

2014 Participation in the European project action Cost Action CM1304- "System chemistry".

2005-2008 Tutor in the course of Inorganic Chemistry Faculty of Engineering, University of Rome Sapienza.

2004-2007 Member in the commissions for profit examinations of some courses of chemistry, Faculty of Mathematical, Physical and Natural Science, University of Rome Sapienza.

2002 Tutor in the teaching laboratories of organic chemistry, Faculty of Sciences, University of Rome Sapienza.

2002 Member of the Organizing Committee of the international conference "Origin of life and early evolution", Ravello, 17-20 ottobre 2002.

1999-2003 Participation in the European project action COST D11 (Supramolecular Chemistry)
“Chiral Recognition in Self-assembled System”