

Curriculum Vitae - Francesca Cavalieri

Qualifications:

Laurea in Industrial Chemistry, *maximum cum laude*, at University of Rome "La Sapienza", Italy, 1995.

PhD in Physical Chemistry (Sonochemistry), University of Melbourne, Australia, 2013.

Relevant Employment History:

1996 Research Fellow, University of Rome "Tor Vergata", Department of Chemical Sciences and Technologies, Italy:

1997 Research Fellow, Whistler Centre for Carbohydrate Research, Food Science Department, Purdue University, West Lafayette, Indiana (USA).

1998 Research Fellow, University of Trieste, Department of Biochemistry, Italy.

2002- Researcher and National delegate for the Ministry of Industry at Brussels ENEA, Italian Agency for New Technologies, Environment and Energy, CR Casaccia, Rome, Italy.

2007-2008 Research Fellow, University of Melbourne, Department of Biomolecular Engineering, Melbourne, Australia.

Research Areas

- *Biomaterials for Drug/Gene Delivery*
Design of artificial biomimetic materials, complex polymer structures, micro- and nanosized gel phases, ultrasound responsive microbubbles and layer-by-layer polymer multilayers and capsules.
- *Self-assembly and Nano-materials*
Supramolecular assembly of natural and synthetic polymers for controlled drug delivery, and tissue engineering applications.
- *Biocompatible Polymers and Hydrogels*
Design, synthesis, and structural studies of novel biodegradable and biocompatible polymers

Teaching

2003-2014: Lecturer in Polymer Science and Laboratory of Physical Chemistry I

Supervisor of 10 Laurea Thesis in Physical Chemistry and 1 Doctorate in "MATERIALS FOR HEALTH, ENVIRONMENT AND ENERGY"

Committee member of Doctorate in Università degli Studi di ROMA "Tor Vergata" "MATERIALS FOR HEALTH, ENVIRONMENT AND ENERGY"