

## **Del Favero Elena**

Curriculum vitae

### PERSONAL INFORMATION

Family name, First name: Del Favero Elena

ORCID: 0000-0002-6584-1869

Nationality: Italian

Email: elena.delfavero@unimi.it

### EDUCATION

1999 PhD in Biochemistry

1993 Master in Physics, University of Milan

### PROFESSIONAL PROFILE

2008 – Associated Professor of Applied Physics, Faculty of Medicine, Dept. of Medical Biotechnologies and Translational Medicine, University of Milan.

2020 – President of the Teaching Staff-Student Joint Committee (Imaging and Radiotherapy Techniques)

2013 – Member of the Faculty Committee of Physics, astrophysics and applied physics PhD School

### POSITIONS HELD

2002 – 2008 Researcher, Faculty of Medicine, Dept. of Chemistry, Biochemistry and Medical Biotechnologies, University of Milan

1999 – 2002 Post-doc research fellowship (Area 2), Dept. of Chemistry, Biochemistry and Medical Biotechnologies, University of Milan

### FELLOWSHIPS AND AWARDS

1994 Fellowship: Fondazione Hoechst

2011 Award received from the American Association of Neuropathologists, USA, for the best paper (G.Di Fede, M.Catania, M.Morbin, G.Rossi, S.Suardi, G.Mazzoleni, M.Merlin, A.R.Giovagnoli, S.Prioni, A.Erbetta, C.Falcone, M.Gobbi, L.Colombo, A.Bastone, M.Beeg, C.Manconi, B.Francescucci, A.Spagnoli, L.Cantu', E.Del Favero, E.Levy, M.Salmona, F.Tagliavini. (2009) A Recessive Mutation in the APP Gene with Dominant-Negative Effect on Amyloidogenesis. Science 323, 1473-1477)

### TEACHING ACTIVITIES

2008 – Medical physics, to 1st year master students - Medicine and surgery

2002 – Applied physics, to 1st year bachelor students - Imaging and Radiotherapy Techniques

2002 – Radiation physics, to 1st year bachelor students - Imaging and Radiotherapy Techniques

2004 – Applied physics to specialisation school students – Nuclear Medicine

2004 – Radiation physics to specialisation school students – Medical physics

### MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2005 – Italian Neutron Spectroscopy Society (SISN)

2007 – Italian Society of Pure and Applied Biophysics (SIBPA)

2007 – European Biophysical Societies' Association (EBSA)

1993 –1997 European Human Capital and Mobility–Networks “Solubilization and Interfacial Properties of Surfactant Solutions” (ERBCHRXT920019)

### GRANTS

2004 – PRIN (2004024358\_003) Transizioni di fase alla superficie saccaridica di micelle di gangliosidi: ruolo dell'acqua solvente (team member)

2008 – PUR giovani (Area 2). 15 k€ (PI)

2010 – 2015 FIRB 2008 (RBF08TLPO\_003) Comprensione delle Interazioni tra Cellule e Nanoparticelle Lipidiche per il Trasporto Genico (team member)

2017 – 2022 ERC-ADG (PI Anna Moroni, University of Milan) (team member)

2019 – Piano Sostegno Ricerca (PSR2019\_DEL\_FAVERO) Sodium Hyaluronate Nanoparticles for Treatment of Mycobacterial Pulmonary Infections by inhalation. 20 k€ (PI)

### EDITORIAL ACTIVITY

Topic Editor for IJMS (2020-)

#### REVIEWER ACTIVITY

Langmuir

Trends in Analytical Chemistry

Biophysical Chemistry

Pharmaceutics

Molecules

International Journal of Nanomedicine

BBA – Biomembranes

The Journal of Physical Chemistry Letters

Soft Matter

Journal of Functional Foods

Advances in Colloid and Interface Science

#### CURRENT RESEARCH

Research on the physico-chemical properties of autoaggregating complex systems of biological macromolecules: structural, dynamic, thermotropic, lyotropic and interaction properties.

- structural organization and dynamics of complex lipid systems (biomimetic membranes)
- mesoscale characterization of polymeric assemblies
- aggregation of amyloid peptides and proteins
- structure of nanoparticles for drug delivery and controlled release
- interaction of model membranes with small peptides, ion channels, natural and synthetic polymers

Physical techniques: static and dynamic laser light scattering (visible, UV), calorimetry, X-ray and Neutron techniques (small and wide angle scattering, reflectometry, quasi-elastic and inelastic neutron scattering) at the European Large Scale Facilities.

#### RESEARCH EXPEDITIONS at LARGE SCALE FACILITIES from 2016 to 2020

Selected and fully supported by international scientific committees

2020 European Synchrotron Radiation Facility (ESRF, France), ID02 beamline 4 days

2020 Institut Laue-Langevin (ILL, France), D17 beamline 1 day, IN13 beamline 8 days

2020 Budapest Neutron Centre (BNC, Hungary), SANS beamline 5 days

2019 Elettra Sincrotrone Trieste, SAXS beamline 2 days

2019 Institut Laue-Langevin (ILL, France), D17 beamline 3 days, IN13 beamline 13 days

2018 Institut Laue-Langevin (ILL, France), IN13 beamline 6 days

2018 European Synchrotron Radiation Facility (ESRF, France), ID02 beamline 4 days

2017 European Synchrotron Radiation Facility (ESRF, France), ID02 beamline 4 days

2016 European Synchrotron Radiation Facility (ESRF, France), ID02 beamline 2 days

2016 Institut Laue-Langevin (ILL, France), D33 beamline 3 days, Figaro beamline 5 days

2016 Laboratoire Léon Brillouin, Saclay, France, PACE beamline 7 days

#### SCIENTIFIC PUBLICATIONS

Elena Del Favero has published 86 papers in international peer-reviewed journals. ORCID: 0000-0002-6584-1869

Web of science (ResearcherID AAR-3567-2020) : H-index = 25, Cit. 1728.

Google scholar: H-index = 27. Cit 2181. (From 2016. H-index = 19. Cit 1209)