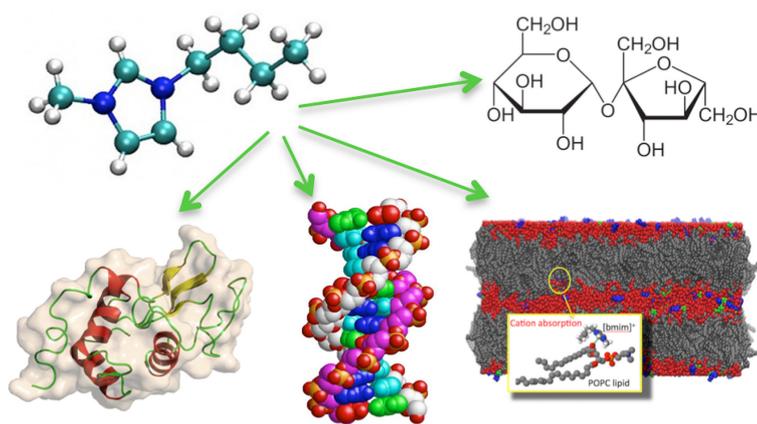


## [1 Postdoctoral Fellowship and PhD Studentships are available in Dr. Benedetto's Biophysics Lab](#)

The scientific plan for the postdoctoral position is part of a comprehensive effort to investigate the interaction of biosystems (like proteins and biomembranes) with a new class of organic salts known as room-temperature ionic liquids (RTIL). This is a new and promising field of study that offers a good balance of challenges and future job opportunities, both in academia and industry.

It has been found that RTILs interact with biosystems in a strong and selective way, opening new opportunities for applications in biomedicine, pharmacology, material science, and bio-nanotechnology. For example, RTILs have shown (i) a marked antibacterial effect; (ii) specific interactions with proteins, affecting their aggregation into amyloid plaques; (iii) the ability to penetrate biomembranes. For an overview of this research: <http://pubs.acs.org/doi/abs/10.1021/acssuschemeng.5b01385>  
For more info about the research activity of the Lab visit our webpage [www.antoniobenedetto.eu](http://www.antoniobenedetto.eu)



The postdoctoral fellowship is for 2 years with the option to extend it for an extra year.

The successful candidate will be based at the Department of Science of Roma Tre University, located in the centre of the city of Rome, Italy. The research activity will be also carried out at the School of Physics, University College Dublin, Ireland, and at the Laboratory for Neutron Scattering and Imaging, Paul Scherrer Institut, Switzerland.

Essential requirements: The candidates must hold a PhD degree in physics or in a related discipline (e.g. chemistry, material science). Experience in one of the following area is highly appreciated: neutron scattering, atomic force microscopy, computer simulations of biosystems and ionic liquids.

Deadline: Applications can be sent from now on until the post is filled. Every second week starting from Monday the 16<sup>th</sup> of July 2018 invitations for interview will be sent based on the applications.

Interviews with potential candidates will start on the week of the 23<sup>th</sup> of July 2018, and the procedure will continue until the suitable candidate is recruited.

How to apply: Send a motivation letter (one page), CV, publication list (highlighting 3 of your publications), and the contact details (name, affiliation, and e-mail) of your supervisor and of one additional referee to Dr. Antonio Benedetto at [antonio.benedetto@ucd.ie](mailto:antonio.benedetto@ucd.ie)

**NOTE: 3-year PhD scholarships are also available.** Interested candidates need to apply on-line at <https://apps.uniroma3.it/bando2018/> The deadline is the 26<sup>th</sup> of June 2018 (2pm CET).  
Basic knowledge of neutron scattering, atomic force microscopy and computer simulations of biosystems and ionic liquids is highly appreciated.