Dr. Francesca NATALI

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Current position

2000 -

CNR Scientist - PhD in Physics

Main responsible of the international project CRG-IN13 at the Nuclear Reactor 'Institut Laue Langevin' (ILL) (Grenoble, France). First Instrument Scientist.

Participation to national and international scientific projects

2000	the exploitation of the unique potentiality of the backscattering spectrometer IN13 at ILL for the investigation of the dynamics in biological macromolecules.
2008 - 2010	MUR, PRIN: Physical properties of polymer-based nanostructured biomatrices. Collaboration with the Universities of Rome, Parma and Trento.

CRG-IN13 project established between Italy (CNR) and France (CNRS, IJJA) for

Member in panels, boards, editorial boards

2019	Review panel of the International Neutron Scattering facilities (NIST, USA)
2018	Review panel of the Swedish Research Council
2011 -	Review panel of several high impact journals (BBA, ACS Nano, Journ. Physic. Chem etc)
2008 - 2010	ILL Scientific Council representing the CRGs community at ILL (Observer).
2009	Working-group for the 7.7 task of workpackage 7 (WP7) of the ESS-PP project.
2000 -	International Scientific Committee of the CRG-IN13 for the proposal selection.

Member organizing committees of schools and conferences

2018	'Spectroscopy in Biological System', ILL user meeting, Grenoble, France.
2012	Qens and Wins 2014, Grenoble, FranceMember (observer) of the ILL Scientific Council representing the CRGs community at ILL.
2007	Italian school in neutron spectroscopy (Sestri Levante and Grenoble). Director.
2003	IN13 user meeting, Grenoble.

Competences

Competences		
Physics	Biophysics (brain tissue, membranes, proteins, DNA), medical physics, material science, optics.	
Thechniques	Optical spectroscopy, crystallography, X-ray diffraction and absorption spectroscopy using standard sources and synchrotrons, neutron scattering using nuclear reactors and pulsed sources, atomic force microscopy, circular dichroism, fluorescence.	

Languages Italian, French, English

Academic activities Co-tutor of the PhD student Irina Piazza from University of Palermo, Grant ILL-CNR 2015 - 2018 2013 - 2016 Co-tutor of the PhD student Saara Lauluma from Hamburg university (Germany), ESS grant. Co-tutor (ILL supervisor) of the PhD student Wiebke Knoll from UJF university. 2009 - 2012 2009 -Co-tutor for several short term stage (2-5 months) students. Co-tutor of the diploma student Carlotta Marasini (5 months ILL stage) from Genova 2009 univ. Best master thesis prize, given by Italian Soc. of Pure and Applied Biophysics 2007 - 2009Co-tutor of the PhD student Chiara Chiapponi from Parma university (Italy) 2001 -Hercules tutorials Educational background and working experiences 2001 -CNR scientist (permanent position), detached at the ILL (Grenoble, France)CNR scientist (permanent position), detached at the ILL (Grenoble, France) Postdoc CNR, detached at the ILL (Grenoble, France) 2000 - 2001 1999 - 2000 Postdoc (15 months) at the 'European Synchrotron Radiation Facility' (Grenoble, France). PhD Diploma in Physics, University of Rome "La Sapienza". Subject: "Upgrading of 1996 - 1999 the X-ray Absorption Spectroscopy for the study of structural fluctuations in complex systems Six months ESRF collaboration contract (Grenoble, France) 1997 - 1998 1996 Winner of the national competition for attending the Specialization School in Medical Physics (Rome, Italy). 3 years fellowship, not attended because of the superposition with the PhD grant. 1996 Habilitation as member of exams committee (Physics) at the department of pharmacy, University of Rome "La Sapienza" (Italy) CNR fellowship, University of Rome "La Sapienza". 1995 - 1996 1995 - 1996 Attending, as observer, the first year of the Specialization School in Medical Physics (Rome). Laurea Diploma in Physics, obtained in January 2005 at the University of Rome. 1989-1995 Specialization in Biophysics (experimental work in electrophysiology). 1991-1992 10 months stay in Paris with the exchange program ERASMUS (Université Paris

Outreach

1984-1989

Several Invited speaker at national and international conferences

High school "La Farnesina" (Rome); scientific diploma.

Numerous oral and posters contributions

VII, France).

Two press releases

More than 80 peer revied publications