

Curriculum Vitae of Antonino Natalello

PRESENT POSITION

Since September 2018: Associate professor of APPLIED PHYSICS at the Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, Italy.

A. Natalello obtained the National Scientific Qualification (Abilitazione Scientifica Nazionale) for Full Professor of Applied Physics on December 2017.

EDUCATION

- 2002: Laurea (Master Degree) in Industrial Biotechnology (110/110 cum laude), University of Milano-Bicocca, Milan, Italy.
- 2006: PhD in Industrial Biotechnology, University of Milano-Bicocca, Italy. Title of the Thesis "Protein stability and aggregation studied by biophysical methods" (Supervisor: Prof. S. M. Doglia).

APPOINTMENTS

- Since September 2018: Associate Professor of APPLIED PHYSICS at the Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, Italy.
- 2015-2018: Temporary Assistant Professor (RTD b - art. 24, comma 3, lettera b, legge 240/2010) of APPLIED PHYSICS at the Biophysics laboratory of the Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, Italy
- 2013-2015: postdoctoral fellow, Department of Physics, University of Milano-Bicocca, Milan, Italy.
- 2008-2012: postdoctoral fellow, Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, Italy.
- 2007: research fellow from "Regione Lombardia", Department of Biotechnology and Biosciences, University of Milano-Bicocca.

OTHER TITLES

- November 2014. National Scientific Qualification (Abilitazione Scientifica Nazionale) for Associate Professor of Experimental Physics of Matter (sector 02/B1).
- Jun 2014. National Scientific Qualification for Associate Professor of Biochemistry (Sector 05/E1).
- Invited ad hoc reviewer for several Journals, among them: PLoS ONE, J. Am. Chem. Soc., Biochemistry, ChemComm, Eur. Biophys. J., Biomaterials, Microb. Cell Fact., BioTechniques, Energy & Fuels, Biomolecules, BioMed Research International, Biotechnology for Biofuels, FEBS Journal, Molecular Pharmaceutics, Biophys. Chem., Sci. Rep., BBA-Proteins and Proteomics, Int. J. Mol. Sci..

RESEARCH INTERESTS

- Protein stability and aggregation, protein-protein and protein-ligand interactions. These topics are investigated by biophysical approaches, among them: infrared spectroscopy and microspectroscopy (FTIR and microFTIR), fluorescence and circular dichroism spectroscopies and "Native" mass spectrometry. In particular, A. Natalello has investigated several aspects of protein aggregation processes also considering their biomedical and biotechnological implications, as the in vivo formation of inclusion bodies in bacterial cells, amyloid aggregation, and the formation of peptide scaffolds for cell culture and regenerative medicine applications.
- Bioanalytical applications of spectroscopic methods. Major research topics: FTIR (micro)spectroscopy of complex biological systems; in situ studies of biological processes; spectroscopic markers.

PUBLICATIONS

- 100 publications on peer-reviewed, international journals;
- total citations (June 2021): >3200 in Google Scholar; >2400 in Scopus;
- h-index (June 2021): h=34 (Google Scholar); h=29 (Scopus).
- 8 chapters on international books;
- > 60 participations to national and international congresses.

Google Scholar: <https://scholar.google.com/citations?hl=it&user=CQkk38UAAAAJ>

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