



Europass Curriculum Vitae

Personal information

First name / Surname **Andrea Motta**
Address Istituto di Chimica Biomolecolare (ICB), Consiglio Nazionale delle Ricerche (CNR), Via Campi Flegrei 34, 80078, Pozzuoli (Napoli), Italy
Telephone(s) +39 081 867 5228 / 5226
Fax +39 081 804 1770
E-mail andrea.motta@icb.cnr.it
Nationality Italian
Date of birth August 5, 1957
Gender Male

Occupational field **Research; Application of nuclear magnetic resonance (NMR) spectroscopy to biosystems**

Work experience

Dates 2002 - Present
Occupation or position held Research Director (Full professor equivalent)
Main activities and responsibilities NMR of proteins and metabolomics; Coordinator of the NMR Service
Name and address of employer Istituto di Chimica Biomolecolare (ICB), Consiglio Nazionale delle Ricerche (CNR), Via Campi Flegrei 34, 80078, Pozzuoli (Napoli), Italy.
Type of business or sector Public Research Organization

Dates 1985 – 2001
Occupation and position held Permanent Researcher and First Researcher at the ICB-National Research Council (CNR), Italy
Main activities and responsibilities NMR of peptides and proteins; Coordinator of the NMR Service
Name and address of employer Istituto di Chimica Biomolecolare (ICB), Consiglio Nazionale delle Ricerche (CNR), Via Campi Flegrei 34, 80078, Pozzuoli (Napoli), Italy.
Type of business or sector Public Research Organization

Education and training

Dates July 2017 – June 2019
Title of qualification awarded Grant: "NMR-based metabolomics analysis as a new tool to monitor inflammation and treatment in cystic fibrosis", funded by Regione Lazio [coordinated by Ospedale Pediatrico Bambino Gesù (Dr. Vincenzina Lucidi). Responsible for Unit 3].
Principal subjects Metabolomics of human pathologies.

Dates	July 2014 – December 2015
Title of qualification awarded	Grant: “Biotechnological Nutraceuticals Network of Campania Region (POR Campania 2007/20013): “Biotechnology for human health”, Project: “Well-being from Biotechnology: New Processes and Products for Nutraceuticals, Cosmeceutics and Human Nutrition (BenTeN) (Coordinator of the project).
Dates	September 2010 – August 2012
Title of qualification awarded	Grant: “Metabolomic analysis by NMR as a new approach to understanding inflammation and monitoring of pharmacological therapy in children and young adults with cystic fibrosis”, funded by Fondazione Fibrosi Cistica (Verona, Italy).
Principal subjects	Metabolomics of biological fluids and statistical analysis.
Dates	June 2012
Title of qualification awarded	National coordinator of the Italian delegation for the Israeli-Italian Bilateral Meeting: “Molecular Structure, Dynamics, and Recognition of Biomolecules: Physiology, Pathology, and Biological Assembly”, 5-6 June 2012, held in Tel Aviv (Israel) and funded by the Italian Ministry of Foreign Affairs.
Dates	February 2003 - Present
Title of qualification awarded	Head of the NMR Service of Research Area “Naples 3”.
Dates	December 2002 – June 2005
Title of qualification awarded	Grant: “Understanding the molecular bases of aluminium in neuropathologies: are Al-induced conformational changes in calmodulin implicated in neurotoxicity mechanisms?” funded by CNR/MIUR (Coordinator of the project).
Dates	January 2002
Title of qualification awarded	Research director (Full professor equivalent) at the Institute of Biomolecular Chemistry – CNR.
Dates	March 2001
Title of qualification awarded	First researcher (Associate professor equivalent) at the Institute of Biomolecular Chemistry – CNR.
Dates	September 1996 – March 2002
Title of qualification awarded	Grant: “Intracellular mechanisms of antigen processing and presentation by the MHC class I and class II molecules”, funded by EU (Coordinator of the Italian Team).
Dates	June 1994
Title of qualification awarded	Coordinator of the NMR Service of the Institute for the Chemistry of Molecules of Biological Interest (CNR), now ICB-CNR.
Dates	June 1994 – August 1994
Title of qualification awarded	Summer visitor at the European Molecular Biology Laboratory, Heidelberg (Germany) in the Biostructure lab.
Dates	April 1992 – March 1995
Title of qualification awarded	Grant: “Control of muscle filament assembly by titin and nebulin: a multidisciplinary approach”, funded by Human Frontier Science Program Organization (Coordinator of the Italian Team).
Dates	1991 - Present
Title of qualification awarded	Group leader at the ICB-CNR.
Name and type of organization	ICB-CNR, Italy Public Research Organization
Dates	January 1985
Title of qualification awarded	Researcher at the Institute for the Chemistry of Molecules of Biological Interest (CNR), now ICB-CNR
Dates	September 1982 – June 1985
Title of qualification awarded	Post doc at the department of Chemistry, Carnegie-Mellon University, Pittsburgh PA, USA. NMR studies on human plasminogen (supervisor Prof. Miguel Llinás).
Dates	May 1982
Title of qualification awarded	Degree in Chemistry, specialization in Physical Chemistry, with highest mark and honors (<i>summa cum laude</i>), discussing the experimental thesis “NMR studies and structural calculations on uteroglobin” (supervisor Prof. Pierandrea Temussi).
Name and type of organization providing education and training	University of Naples “Federico II”, Faculty of Sciences

Publications and additional information

Co-author of 190 articles and reviews in peer-reviewed scientific journals (H-index = 48 according to Google Scholar, and H-index = 41 according to Web of Science: ORCID ID: 0000-0002-8643-658X, as of September 2021), 89% of them as senior author, on NMR applications to biostructural problems of proteins and polypeptides, and metabolomics.

He served as referee for international Journals like PLoS One, Biochemistry, Analytical Chemistry, Journal of Physical Chemistry, Journal of the American Chemical Society, Journal of Proteome Research, Bioanalysis, European Respiratory Journal, Biomarkers in Medicine, Journal of Allergy and Clinical Immunology, Thorax, Lancet, etc.

He also served as project evaluator for the "National Science Foundation" (Washington DC, USA), the "International Science Foundation" (Washington DC, USA), and the Human Frontier Science Program Organization (Strasbourg, France) for applications involving NMR to biostructural aspects of proteins and polypeptides.

He was also evaluator for the ANVUR (Italian National Agency for the Evaluation of the University and Research Systems).

Personal skills and competences

Mother tongue(s)

Italian

Other language(s)

Self-assessment

European level

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

Social skills and competences

Team work; mediating skills; problem solving; personnel managing

Technical skills and competences

1. NMR structure determination of peptides and proteins involved in pathological processes:
Structure-activity relationship of macromolecules;
Design of new NMR experiments;
Software development for NMR processing;
Conformational calculations.
2. Metabolomics/metabonomics of pathologies:
Metabolomics/metabonomics by high-resolution NMR;
Statistical analysis.
3. Cell systems biology:
Metabolic profiles of *in-vivo* cells;
Design of new NMR experiments for fast observation of metabolic fingerprint;
Metabolic pathway bioinformatics.

Computer skills and competences

Excellent knowledge of Microsoft programs and some experience with HTML.
Molecular modeling based on NMR data.

Other skills and competences

Expert in World War II and Nazi war crimes.
Love reading and listening to jazz and classical music.