

CURRICULUM VITAE

NADIA RAFFAELLI

Full Professor of Biochemistry

**Department of Agricultural, Food and Environmental Sciences, Marche Polytechnic University,
Ancona, Italy**

EDUCATION AND TRAINING

- | | |
|----------------|---|
| 1984 | Doctoral Degree in "Biological Sciences" at the University of Camerino, Italy |
| 1/1987-12/1987 | Post-doctoral fellowship at the Department of Biochemistry and Molecular Biology, University of Florida, Gainesville, USA |
| 1988 | Specialization in "Microbiology" at the University of Camerino, Italy |

POSITIONS

- | | |
|-------------------|--|
| 11/1989-11/1990 | Researcher of Biochemistry at the Department of Molecular and Cellular Biology, Faculty of Sciences, University of Camerino, Italy. |
| 12/1990-3/2001 | Qualified Laboratory Technician at the Biochemistry Institute, Faculty of Medicine, University of Ancona, Italy |
| 4/2001-10/2001 | Researcher of Biochemistry at the Faculty of Medicine, University of Ancona, Italy |
| 11/2001-10/2006 | Associate Professor of Biochemistry, Faculty of Agriculture, Polytechnic University of Marche, Italy |
| 11/2006 - present | Full Professor of Biochemistry, Department of Agricultural, Food and Environmental Sciences, Polytechnic University of Marche, Italy |

TEACHING ACTIVITY

- | | |
|---------------------|---|
| 2001/2002 | "Analisi delle piante officinali e loro derivati", B.Sc. "in Tecniche Erboristiche", Faculty of Agriculture, University of Ancona |
| 2001/2002-2003/2004 | "Propedeutica Biochimica", B.Sc. in "Scienze e Tecnologie Agrarie ed Alimentari", Faculty of Agriculture, University of Ancona |

2004/2005-2009/2010	“Biochimica”, B.Sc. in “Scienze degli Alimenti”, Faculty of Agriculture, University of Ancona
2008/2009	“Chimica ed analisi degli alimenti”, M.Sc. in “Scienze degli Alimenti e della Nutrizione”, Faculty of Agriculture, Polytechnic University of Marche
2010/2011-2016/2017	“Biochimica degli Alimenti”, B.Sc. in “Scienze e Tecnologie Alimentari”, Department of Agricultural, Food and Environmental Sciences (D3A), Polytechnic University of Marche
2010/2011-present	“Biochimica 2”, B.Sc. in “Scienze e Tecnologie Alimentari”, D3A, Polytechnic University of Marche
2016/2017- present	“Food Biochemistry”, M.Sc. in “Food and Beverage Innovation and Management”, D3A, Polytechnic University of Marche
2001-2007	Member of the School for the PhD program in “Biomedical Biotechnologies”, Faculty of Medicine, Polytechnic University of Marche
2007 -present	Member of the board of the PhD program in “Agricultural, Food and Environmental Sciences”, Polytechnic University of Marche, Italy

Since 2002/2003 Prof. Raffaelli has been the supervisor of several B.Sc. and M.Sc. students, 8 PhD students, and several postdoctoral fellows.

INSTITUTIONAL RESPONSABILITIES

2015 - present	Vice Director of the Department of Agricultural, Food and Environmental Sciences, Polytechnic University of Marche, Italy
2017 - present	President of the Ethics Committee, Polytechnic University of Marche, Italy
2017 - present	Member of the Discipline Committee, Polytechnic University of Marche, Italy
2019 – present	Rector’s Delegate for Research

MEMBERSHIPS AND OTHER ACTIVITIES

1992 - present	Member of the Italian Society of Biochemistry
2015 - present	Member of the Scientific Advisory Board of the Institute of Food Sciences, National Research Council of Italy, Avellino, Italy

Expert nominated by the Italian Ministry of University and Research as member of the Committee for the selection of research projects “Life Science” financed by the “Fund for investment in basic research, FIRB” (2011)

External examiner for awarding the PhD degree at the Universities of Milan (2010), Piemonte Orientale (2013, 2015), Nottingham, UK (2016) and Camerino (2019).

External examiner in the selection procedure for awarding research fellowships financed by the University of Trieste (2012) and Milan (2015).

COLLABORATIONS WITH BIOTECH COMPANIES

2011 – present	academic collaborator for TES Pharma (Perugia, Italy), a company focusing on drug discovery against key targets in metabolic diseases and oncology, providing expertise in Biochemistry and Enzymology
----------------	--

SCIENTIFIC ACTIVITY

Prof. Raffaelli's research is mostly focused on the study of enzymatic proteins involved in NAD metabolism, both in bacteria and in eukaryotes, including humans. By combining bioinformatic analyses and biochemical techniques, she identified and characterized for the first time genes coding for key regulatory enzymes of the coenzyme's metabolism, and, in collaboration with other groups, she contributed to the resolution of the three-dimensional structure of most of them. She is also interested in understanding how the various metabolic pathways leading to NAD biosynthesis in mammals are affected depending on the cell-type and metabolic status, and how alteration of the intracellular NAD pool impacts on energy metabolism and cell growth. In addition, she is studying the role of NAD metabolism in the pathogenesis of various conditions, including cancer and inflammatory diseases, also with the aim to develop novel therapeutic strategies.

Her scientific production has been supported by national and international grants and it is reported in several publications in International Journals with impact factor, and more than 100 communications to National and International Meetings. She has been invited as lecturer at several international and national Meetings. She also contributed to several reviews on the enzymology of NAD metabolism, and a few of these reviews have been considered of outstanding value from referees.

Prof. Raffaelli has been reviewer of several papers for international Journals, including PLoS One, FEBS Journal, Biochimica Biophysica Acta, European Journal of Nutrition, Biomolecules, Structure, Nature Communication, Cell Metabolism.

December 1st 2020