

From 2016, Nadia Diano (born in Naples on 19 March 1972) is Associate Professor in Applied Physics (SSD FIS/07) at the Department of Experimental Medicine, School of Medicine, University of Campania "L. Vanvitelli".

In 2006, she became full time Researcher and was also awarded the PhD degree in "Aerospace Science and Technology: Biomedical field", at the Faculty of Engineering of the Second University of Naples. For the PhD thesis, she received BIOFORUM DOC AWARD 2011, during the event "Bioforum 2011", Parco Tecnologico Vega, Venezia.

She graduated, with 110/110, in Chemical Engineering, Biotechnology address, at the University of Naples "Federico II". Immediately after graduation, she began her research activity, with scholarships at the Institute of Genetics and Biophysics of CNR, Naples, and at the Department of Experimental Medicine, Second University of Naples.

In two PON projects co-financed by Cirio Ricerche (PON Project "New dairy products", 1999-2001, and PON Project "Production of clear fruit juices" 2002-2006), she was involved in the agro-food sector studying the industrial applications of immobilized enzymes in bioreactors operating under isothermal and non isothermal conditions.

As participant to PRIN 2002 and 2004, Prof. Diano was interested in the immobilization of protease inhibitors for the reduction of plasma proteolytic damage during extracorporeal circulation in consequence of cardiopulmonary bypass surgery and of hemodialysis therapy.

From 2007, Prof. Diano has extended her research to the field of Environment and Health, studying: a) the (bio)determination in aqueous solutions, by amperometric biosensors of pollutant compounds, in general and endocrine disruptors, in particular; b) the (bio)remediation on a laboratory scale of water from polluted these compounds by means of prototypes of bioreactors; c) the determination of specific molecules by analytical (HPLC, LC-MS/MS) or biotechnological (YES test) techniques in animal tissues and biological fluids, d) the study of the effects in vivo and in vitro of the exposure to pollutants of cell lines and whole organisms, e) the research of possible correlations between environmental exposure and some social pathologies such as endometriosis, obesity and non-alcoholic fatty liver disease (NAFLD).

As responsible of a local research unit at the Department of Experimental Medicine, Second University of Naples, Prof. Diano has received funding for projects:

"Development of procedures of bioremediation and new systems of analysis for Endocrine Disruptors" under the program "Fund for Investment in Basic Research" (FIRB), year 2008;

Project PRIN 2008 "New biotechnology for the decontamination of waters polluted by endocrine disruptors and biological testing in vitro of the occurred bioremediation"

Ricerca Finalizzata 2008 "Innovative approaches in the evaluation and prevention of the food exposure to contaminant toxic persistent and emergent, through the study of the diet and the debugging of innovative methods of survey";

Ricerca Finalizzata 2009 "Food and environmental safety: the problem of the endocrine disruptors".

Prof. Diano is author of 68 full-length scientific publications, published in international journals listed in Science Citation Index (Journal Citation Reports, Institute for Scientific Information), and 5 chapters in books at international diffusion.

H-index is 27 (by Scopus) with 1946 total citations.

She has been invited speaker at several conferences and National Schools of Biophysics (50 abstracts and posters).

As documented by published articles, Prof. Diano is actively involved in collaborative projects with:

a) The Laboratory of Bioactive Polymers, Institute of Polymers, Bulgarian Academy of Science (BAS), Sofia, Bulgaria;

b) The Polymers Research Department, Mubarak City for Scientific Research and Technology Applications (MuCSAT), Alexandria, Egypt;

c) The Department of Biotechnology, University "A. Zlatkov", Burgas, Bulgaria;

d) Department of Ob/Gyn & Reproductive Sciences and Department of Neurobiology, Program in Integrative Cell Signaling and Neurobiology of Metabolism, Medical School of Yale University;

e) Institute for Genome Biology, Fish Genetics Unit, Leibniz Institute for Farm Animal Biology (FBN), Dummerstorf, Germany

- f) Department of Biological and Environmental Sciences, University of Gothenburg, Gothenburg, Sweden
g) Several Institute of CNR.

She is reviewer for several academic publishing companies: Elsevier (Journal of Hazardous Materials, Biochemical Engineering Journal, Bioresource Technology, Journal of Molecular Catalysis B:Enzymatic); Wiley-VCH (Biotechnology Progress, Journal of Soil Science and Plant Nutrition); MDPI (International Journal of Molecular Sciences); Springer Link (Biodegradation); ACS Publications (Environmental Science & Technology); Scientific Reports – Nature.

In addition she is reviewer of research proposals submitted on Czech Science Foundation and on Italian Ministry of University and Research (MUR).

Her teaching activities:

2011-present: "Physics Applied to Medical Sciences" in three-year degree courses of Medical Professions (Ortottica, Tecnica della Riabilitazione Psichiatrica, Fisioterapia, Logopedia, Tecnica della NeuroPsicomotricità dell'Età Evolutiva, Igiene Dentale, Informatore Medico Scientifico);

2016-present: "Physics Applied to Medical Sciences" in degree course of Medicine and Surgery;

2018-present: "Biophysics" in degree course of Physics;

2018-present: "Applied Physics" in the three-year degree course of Environment and Workplace Prevention Techniques;

2018-present: "Health Physics" in the three-year degree course of Environment and Workplace Prevention Techniques;

2009-2018: "Biophysics" in the three-year degree course of Biotechnology;

2008-2009: "Applied Physics" in the three-year degree course of Technical prevention in work places, ASL Caserta 2;

2008-2014: "Physics Applied to Medical Sciences" in the three-year degree course of Physiotherapy, ASL Napoli 1;

2006-2008: "Physics Applied to Medical Sciences" in the degree course of "Medicine and Surgery", Avellino.

In these years, as academic tutor, she guided and supervised medical biotechnology students and PhD students throughout their thesis work. In particular, PhD projects supervised are:

"Bisphenol A and Childhood Obesity", Dr. Ciro Menale, PhD in "Alimenti e Salute: Biotecnologie e Metodologie Applicate alla Fisiopatologia digestiva" at Second University of Naples;

"Interferenti Endocrini come fattore ambientale nella promozione della sindrome metabolica e della NASH: studio in vitro e in vivo", Dr. Carla Nicolucci, PhD in "Medicina Sperimentale" at University of Messina – AOU Policlinico G. Martino;

"Influenza del Bisfenolo A sulla regolazione della funzionalità epatica", Dr. Sonia Errico, PhD in "Scienze Mediche, cliniche e Sperimentali" at Second University of Naples;

"Metodologie analitiche associate alla spettrometria di massa per la caratterizzazione di campioni biologici complessi in ambito biomedico/ambientale", Dr. Martina Moggio, PhD in "Scienze Mediche, cliniche e Sperimentali" at University of Campania "L. Vanvitelli".