

Prof.Dr.Roberto Berni Canani, MD,PhD

Chief, Pediatric Allergy Program - Department of Translational Medical Science - Section of Pediatrics

Head, Pediatric Allergy Program

Chief, ImmunoNutritionLab - CEINGE Advanced Biotechnologies Research Center

European Laboratory for the Investigation of Food Induced Diseases

Task Force on Microbiome Studies

University of Naples "Federico II", Italy

Prof.Roberto Berni Canani is internationally recognized as one of the leading researchers in the area of pediatric pathologies, pediatric gastroenterology, allergology, food induced diseases and human nutrition

He received his MD and PhD degrees from University of Naples "Federico II", Naples, Italy.

Chief of the Pediatric Allergy Program and founder of the ImmunoNutritionLab at Ceinge Advanced Biotechnologies Research Center. He is author of more than 400 publications among scientific paper on international journals, chapters of books and reviews.

His publications are widely quoted (collectively more than >24000 citations as at February 2023). Of these, 42 papers have been cited >100 times. H-index score 73. Total impact factor score: >2450.

Associate editor of World Journal of Gastroenterology, Journal of Pediatric Gastroenterology and Nutrition, Case Reports in Food Allergy, Journal of Gastroenterology and Hepatology Research, Allergies, International Journal of Autoimmune Disease & Therapy, Edit Symposia, Fontiers in Immunology, Frontiers in Pediatrics.

He is member of many national scientific societies (Italian Society of Pediatrics, Italian Society of Pediatric Gastroenterology Hepatology and Nutrition, Italian Society of Pediatric Allergy and Immunology, Italian Society of Infectious Diseases, Italian Society of Pediatric Research). Vice-president of the Italian Society of Pediatric Gastroenterology Hepatology and Nutrition (SIGENP) (2008-2012) and actual chief of the food-induced diseases working group (from 2014). He is member of the European Academy of Allergy and Clinical Immunology (EAACI) and of the European Society for Pediatric Gastroenterology Hepatology and Nutrition (ESPGHAN).

Member of the Expert Panel (from 2011) and of the Dietetic products, Nutrition and Allergies Panel of the European Food Safety Authority (EFSA) (2012-2015). Member of the evaluation commission, PDR/VII.1 competitions (2022-present). Referent of the Third Mission activities "Joint School-Health Project, of the Neapolitan Child: The SSBN Program" at "I.C. 1° Ariosto" of Arzano (NA). (for the 2022-2023 school year). Referent for Third Mission activities (Engaged University)" Prevention and treatment of allergic pathologies and induced diseases in children. (2022- present).

From 2013 he is enclosed in the list of Top 250 Italian Scientists of VIA-Academy (<http://www.topitalianscientists.org>).

Since 2019 he has been included in the list of the 100 thousand most influential international scientists in the world of the journal Plos Biology.

Since 2019 he has been consistently at the top of Expertscape's international rankings of experts in the fields of pediatrics, allergy, food allergy, and gastroenterology.

Since 2022 he has been included in the list of "Top 2%" researchers in the world of the World Scientist and University Rankings in the "Pediatrics and Child Health" and "Medical and Health Sciences" sectors (<https://www.adscientificindex.com/scientist/roberto-berni-canani/1854885>).

Research fellowship at Division of Pediatric Digestive Diseases, Chicago Children's Hospital, Chicago University, Chicago, IL, USA (2002). Visiting Professor at Division of Pediatric Gastroenterology, Mass General Hospital for Children, Harvard Medical School, Harvard University, Boston, MA, USA (2011). Research fellowship at Division of Pediatric Nutrition, MassGeneral Hospital for Children, Harvard Medical School, Harvard University, Boston, MA, USA (2012). Visiting Professor at Division of Pediatric Digestive Diseases, Chicago Children's Hospital, Chicago University, Chicago, IL, USA (2013). Visiting Scholar at Department of Biological Sciences, University of Chicago, Chicago, IL USA (2014-2015). Visiting Professor at Division of Pediatric Gastroenterology, Children's Hospital Medical Center, Cincinnati, Ohio, USA (2017). Visiting Professor at the Division of Pediatric Gastroenterology, Hepatology and Nutrition. Harvard Medical School, Harvard University, Boston, MA, USA (2018). Visiting Professor at Division of Pediatric Gastroenterology, Chicago Children's Hospital, University of Chicago, Chicago, IL, USA (2019).

Supervisor of more than eighty experimental degree, specialization and doctoral theses.

Invitations: He has received >350 personal invitations to speak at international conferences, most of these as a Keynote or Plenary speaker.

Independent Research: Dr. Berni Canani has demonstrated his research leadership potential by establishing a new independent, productive research group in 2000 (currently supporting 35 staff). To this end, he was involved in raising infrastructure funding to fully equip the new laboratories for this growing group. He has also independently raised > 15 million Euros (as Principal investigator) in the last 5 years.

Key contributions: Prof. R. Berni Canani has developed a interdisciplinary research team and a highly integrated research clinical program to better understand the pathogenic mechanisms of GI diseases and provide the best care for children affected by these disorders. The main study aim of the program is focused on the identification of best strategies for the management of pediatric patients affected by food allergies and food intolerances, and for the identification of innovative strategies to induce immune tolerance in children affected by food allergy. A bench to bedside approach is used to investigate pathophysiological basis of pediatric food-induced diseases including animal models, peripheral blood cells culture from children, epigenetics biomarkers involved in IgE- and in non-IgE-mediated food allergy, gut microbiota structure and function analysis. His studies on gut microbiome, oral tolerance and immunonutrition have already been translated into novel concepts and lead to a paradigm shift in the pathogenesis and treatment of food allergy and of other pediatric diseases.

Media and Public engagement: He has given over 300 presentations to local and international newspapers, radio and television in the last five years. He gives public lectures and writes books for the general public.

Collaborations: Prof Berni Canani has extensive local and international academic research collaborations (in Europe, Africa, Asia and North America) as well as several links with industry and major companies involved in human nutrition.

Member of the reviewers panel of: "Research Projects of National Relevance (PRIN)" of the Italian Ministry of University and Scientific Research (from 2009); "The Research Projects and Fellowships Fund on Food and Nutrition with Implications on Public Health" Ministry of Health of the State of Israel (2013); "Health Research Board (HRB) Strategic Business Plan 2010- 2014 – The Future of Irish Health" (HRA-POR-2014-553)(2014); "Hertha Firnberg-Program of the Austrian Science Fund (FWF)" (2015-2017); "NWO Council for Earth and Life Sciences" (ALW), Ministry of Health Kingdom of the Netherlands (2015); "RFI Food for Tomorrow-Cap Aliment: Transition and adaptation of food systems for the future". European Community Research Grant (2015-2020); "Czech Science Foundation" (2017).

Member of the review panel of the Netherlands Organization for Scientific Research (NWO) domain Applied and Engineering Sciences (TTW) Ministry of Education, Culture and Science of the Netherlands (2017). Member of the Board Panel of the Austrian Science Fund (FWF) the institution established under Austrian federal law (Research and Technology Funding Act, or FTFG) (2017). Referent for the Department of Translational Medical Sciences of the University Industry 4.0 Task Force (2017-present). Referent for the Department of Translational Medical Sciences of the University Task Force on the Microbiome. (2017-present). Referent for the Department of Translational Medical Sciences of the University Task Force on Nutraceuticals (2018-present).

"National Institute for Health Research" (NHS), UK (from 2018). Member of the Panel of Auditors Research Funding Department at University of Sharjah, Sharjah, UAE (2019-present). Member of the Panel of Auditors of German Federal Ministry of Education and Research (BMBF). National funding initiative "Interdisciplinary Research Consortia on Adverse Reactions to Food". (2020-present). Member of the Management Committee of the University Task Force for Microbiome Studies, University of Naples Federico II (2020-present). International Scientific Evaluation Committee of the Joint Programming Initiative "a Healthy Diet for a Healthy Life" (JPI HDHL). Clemens von Pirquet-Prize" della Austrian Society for Allergology and Immunology (2022-present).