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Curriculum Vitae

Prof. Dr. Roberto Berni Canani is internationally recognized as one of the leading researchers in pediatric allergy, gastroenterology, and human nutrition. He received his MD and PhD degrees from University of Naples "Federico II", Naples, Italy. He is board certified in Pediatrics. He is full professor of pediatrics.

Funder and Chief of the Pediatric Allergy Gastroenterology and Nutrition Comprehensive Education, Treatment and Support Program at the University Federico II of Naples, one of the largest providers of pediatric allergy, gastroenterology and nutrition services in the EU. The Program is designed to treat all aspects of pediatric diseases, including medical, dietary, social, and psychological concerns. The team is composed by several care professionals, each with a unique role in treating, educating, and supporting the patients and their families, including pediatricians, allergists, gastroenterologists, nutritionists, dieticians, social workers, nurses, psychologists, neuropsychiatrists, and allergy technicians. The Program has been accredited as the Center of Excellence by the World Allergy Organization (WAO).

Founder and Chief of the ImmunoNutritionLab at Ceinge Advanced Biotechnologies Research Center. The ImmunoNutritionLab is highly multidisciplinary and encompasses research on several pediatric allergy topics with the aim to move disease biology from the laboratory to clinical practice. The research at the "ImmunoNutritionLab" is focused on modern nutritional interventions with a pivotal role in improving the health status of both current and future generations. (http://www.immunonutritionlab.com).

Founder and Member of the Advisory Board of the Task Force on Microbiome Studies, a collective and multidisciplinary microbiome initiative bringing together facilities from 14 different Departments and expertise from more than 100 staff scientists spanning soil/plant/food/human microbiome, and including chemistry, engineering and social sciences at the University Federico II of Naples, Italy (www.tfm.unina.it).

Founder and Chief of the University Spin-Off NutriTechLab, committed to developing a food supplement capable of meeting the nutritional needs of patients suffering from allergic diseases and at the same time stimulating the mechanisms of immunological tolerance and protection against infections and inflammation.

He is author of more than 600 publications among scientific paper on international journals, chapters of books and reviews. His publications are widely quoted (collectively more than >65.000 citations as April 2026). H-index 102. Total impact factor score: >4500.

Associate editor of Frontiers in Pediatrics, Frontiers in Nutrition, Frontiers in Allergy, World Journal of Gastroenterology, Journal of Pediatric Gastroenterology and Nutrition, Journal of Gastroenterology and Hepatology Research, Allergies, International Journal of Autoimmune Disease & Therapy.

Reviewer for the following international scientific journals: JAMA Pediatrics, Pediatrics, Journal of Pediatrics, Pediatric Research, Pediatric Infectious Diseases Journal, Journal of Pediatric Gastroenterology and Nutrition, New England Journal of Medicine, Lancet, British Medical Journal, Nature Communications, British Medical Journal Case reports, British Medical Journal Open, Journal of Clinical Investigation, Diabetes, International Journal of Clinical Practice, Gastroenterology, Gut, American Journal of Gastroenterology, European Journal of Gastroenterology and Hepatology, Alimentary Pharmacology and Therapeutics, World Journal of Gastroenterology, Journal of Nutrition, Journal of Nutrition and Metabolism, Nutrition Reviews, European Food Research and Technology, Public Health Nutrition, International Journal of Obesity, Food and Chemical Toxicology, Obesity and Metabolism, British Journal of Nutrition, Journal of Agricultural and Food Chemistry, Obesity and Metabolism, Food &Function, International Journal of Food Sciences and Nutrition, The Journal of Allergy and Clinical Immunology, Allergy, Clinical and Experimental Allergy, Pediatric Allergy and Immunology, International Journal of Allergy.

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). Founder of the ImmunoNutrition WG and Coordinator of the Task Force on UPFs and member of the European Academy of Allergy and Clinical Immunology (EAACI). Member of the WG on Microbiota, member of the WG on Eosinophilic Gastrointestinal Diseases (EGIDs) and AI. Founder and Coordinator of Special Interest Group on Childhood Obesity (ESPGHAN) and member of the European Society for Pediatric Gastroenterology Hepatology and Nutrition (ESPGHAN). Coordinator of the Task force "Ultra-Processed Foods and allergy outcomes: Stopping a global epidemic" (EAACI).

He has obtained several scientific prizes for the research activity.

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).

From 2013 he is enclosed in the list of Top 100 Italian Scientists of VIA-Academy (http://www.topitalianscientists.org/Top_italian_scientists_VIA-Academy.aspx).

In 2019 he has been enclosed in the Plos Biology list of the most influent international scientists in the world (https://doi.org/10.1371/journal.pbio.3000384).

The Expertscape's PubMed-based algorithms place Dr. Berni Canani in the top 1% of scholars writing about food allergy over the past 10 years.

Key contributions: Dr.R.Berni Canani has developed an interdisciplinary research team and a highly integrated research clinical program aimed at advancing our understanding of the pathophysiology of pediatric gastrointestinal (GI) and allergic diseases, with the ultimate goal of providing the highest standard of care for affected children. The core objective of this program is the identification and validation of the most effective strategies for the prevention and treatment of GI tract conditions, pediatric allergic disorders and food-induced diseases. This is achieved through a rigorous bench-to-bedside approach that encompasses a wide range of experimental models and methodologies, including animal models, human peripheral blood cell cultures, human enterocyte cultures, intestinal organoids, organ cultures, artificial gut system and artificial gut microbiome system (SHIME). Cutting-edge techniques are also employed to study genetic and epigenetic biomarkers, as well as the structure and functional dynamics of the gut microbiome.

A significant area of research that has been ongoing for many years within the program concerns the negative impact of ultraprocessed foods (UPFs) on human health, with a particular focus on the integrity and functionality of the intestinal barrier. An increasing number of scientific publications demonstrate that dietary exposure to fructose, carbonated soft drinks, advanced glycated end-products (AGEs), and sugar intake has been linked to a higher risk of developing asthma, allergic rhinitis, and food allergies in children. Additionally, such dietary factors have been associated with a greater incidence of chronic non-communicable diseases, such as obesity and diabetes.

These studies are made possible by the high volume of pediatric patients referred to our hospital, which enables the execution of numerous clinical trials aimed at elucidating the full spectrum of harmful effects linked to poor dietary habits. The research efforts are further supported by a highly specialized team comprising pediatricians, biologists, nutritionists, and dietitians, and by the ImmunoNutritionLab (CEINGE) with the use of state-of-the-art instrumentation. Among these, the SHIME system (PROdigest) plays a central role, allowing for the simulation of gastrointestinal processes and enabling the in vitro assessment of both the harmful effects of ultra-processed foods and the potential beneficial impact of therapeutic agents such as postbiotics.

Dr. Berni Canani's work in the areas of human nutrition, gut microbiome, and mucosal immunology has already yielded transformative insights, contributing to a paradigm shift in our understanding of the pathogenesis and treatment of food-induced diseases and other pediatric GI and allergic conditions.

Invitations: He has received >450 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 >45 million Euros (as chief investigator) in the last 5 years. He has supervised 65 postgraduate students (44 PhD students and 21 clinical fellows) and 19 honors students.

Media and Public engagement: He have given over 650 presentations to local and international newspapers, radio, and television in the last five years. He gives public lectures and writes books for the public.

Collaborations: Prof Berni Canani has extensive local and international academic research collaborations (in Europe, Africa, Asia and North America). Research fellowship at the Division of Pediatric Digestive Diseases, Chicago Children's Hospital, Chicago University, Chicago USA (2002). Visiting Professor at the Division of Pediatric Gastroenterology, Mass General Hospital for Children, Harvard Medical School, Boston Massachusetts, USA (2011). Research fellowship at the Division of Pediatric Nutrition, Mass General Hospital for Children, Harvard Medical School, Boston, Massachusetts, USA (2012). Visiting Professor at the Division of Pediatric Digestive Diseases, Chicago Children's Hospital, Chicago University, Chicago Illinois (2012). Visiting Scholar at the Department of Biological Sciences, University of Chicago, Chicago, IL USA (2014-2015). Visiting Professor at the Children's Hospital Medical Center, Cincinnati, USA (2017). Visiting Professor at the Division of Pediatric Gastroenterology, Hepatology and Nutrition Harvard Medical School, Boston, MA, USA (2017). Visiting Professor at the Division of Pediatric Gastroenterology University, Chicago 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 the Division of Pediatric Gastroenterology, Chicago Children's Hospital, University of Chicago, Chicago, IL, USA (2019)

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). "National Institute for Health Research" (NHS), UK (from 2018); "French National Research Agency" (ANR) (2019); "Research Funding Department at University of Sharjah", Sharjah, UAE (from 2019); "Interdisciplinary Research Consortia on Adverse Reactions to Food" German Federal Ministry of Education and Research (BMBF) (from 2020); International Scientific Evaluation Committee of the Joint Programming Initiative "a Healthy Diet for a Healthy Life" (JPI HDHL) (from 2022); International Scientific Evaluation Committee of the Dutch Research Council (NWO), Domain Applied and Engineering Sciences (AES) Round Open technologies program OTP 2022 (from 2022).

Naples, April 6th 2026

List of main scientific publications

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(in brackets the respective Impact Factor calculated on the basis of the Impact Factor 2025 values)

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Naples, April 6th 2026