

BIOGRAPHICAL SKETCH

Name: Mario Galgani	Position/Title: Researcher , Istituto per l'Endocrinologia e l'Oncologia Sperimentale "IEOS" – Consiglio Nazionale delle Ricerche (CNR).
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Education

Institution and Location	Degree	Year Conferred	Field of Study
Degree in Biology,	University Degree	1997	Immunology
Residency in Clinical Pathology. University of Naples "Federico II".	Residency	2005	Clinical Pathology and General Pathology
Research Doctorate. University of Naples "Federico II".	PhD	2010	Molecular Biology and Immunology

Research and Professional Experience**Positions and Employment**

- 1998: Degree in Biology, (*Summa Cum Laude*) Thesis, on the effects of HIV on CD4+ T cells subpopulation. Supervisor: Prof. S. Zappacosta.
- 2000-2005: Residency in Clinical Pathology. School of Medicina e Chirurgia University of Naples "Federico II".
- 2008: Lecturer of General Pathology, Faculty of Medicine, University of Molise (Italy).
- 2009: Lecturer of General Pathology, Faculty of Medicine, University of Molise (Italy).
- 2010: Lecturer of General Pathology, Faculty of Medicine, University of Molise (Italy).
- 2006-2009: PhD Student in Molecular Pathology and Physiopathology, Department of Cellular and Molecular Biology and Pathology "Federico II" University of Naples, Italy. Supervisor: Prof. Vittorio Enrico Avvedimento.
- 2010: PhD award in Pathology and Molecular Physiopathology, University of Naples (Italy), defending the thesis "Role of Leptin and metabolism in survival of autoreactive CD4+ T cells". Supervisor: Prof. Vittorio Enrico Avvedimento.
- 2011: Lecturer of General Pathology, Faculty of Scienze Motorie, University of Molise (Italy).
- 2012: Researcher at Istituto per l'Endocrinologia e l'Oncologia Sperimentale "G. Salvatore" Consiglio Nazionale delle Ricerche (IEOS-CNR).

- 2013: Lecturer of General Pathology, Department of Medicina e Scienze della Salute, University of Molise (Italy).
- 2014: Lecturer of General Pathology, Department of Medicina e Scienze della Salute, University of Molise (Italy) and School of Medicina e Chirurgia University of Naples "Federico II".

Research Experience

- 1997: Training as student fellow in Immunology "Laboratory of Immunology at the Dipartimento di Biologia e Patologia Cellulare e Molecolare, Università di Napoli "Federico II", under the supervision of Prof. Serafino Zappacosta
- 1999-2006: Dipartimento di Biologia e Patologia Cellulare e Molecolare, University of Naples Fellow. Dr. Galgani investigated mainly the physiology of human-derived Dendritic Cells (DCs).
- 2008: Visiting Scientist at the Immune Tolerance Laboratory, David Geffen School of Medicine, University of California, Los Angeles (USA). Supervisor: Prof. Antonio La Cava.
- 2006- 2009: PhD Student at Dipartimento di Biologia e Patologia Cellulare e Molecolare, University of Naples "Federico II" (Italy). Dr. Galgani focused his attention on the role of leptin in control autoimmune diseases, such as Multiple Sclerosis (MS) and Type 1 Diabetes (T1D).
- 2009-to date: Research activity of Dr. Galgani was focused on the different aspects of immune responses, and specifically on the comprehension of the biological and molecular mechanisms regulating the immune system in both physiological and pathological conditions. Recently, Dr. Galgani has identified novel circulating biomarkers reflecting progression of autoimmune diabetes.

Major achievements

Scientific interest of Dr. Galgani is focused on the comprehension of the biological and molecular mechanisms regulating the immune response. In particular, his main interest concerns the study of the cellular mechanisms leading to the alteration of immune tolerance during autoimmune diseases, such as Type 1 Diabetes (T1D) and Multiple Sclerosis (MS). Dr. Galgani aims at studying the functional characteristics of different subset of regulatory T cells (T_{REG}) involved in the control of immune tolerance. Specifically, the research is focused on the study of the link between metabolic programs (glycolysis and FAO) T_{REG} cells (**De Rosa V. and Galgani M. Nat Imuunol 2015**).

In addition, the research area of Dr. Galgani is also focused on the comprehension of pathogenic mechanisms at the basis of Type 1 Diabetes, and, in particular, on the identification of novel biomarkers reflecting diabetes progression. Recently, Dr. Galgani has identified novel circulating biomarkers reflecting progression of autoimmune diabetes in affected children (**Galgani M. Diabetes. 2013**).

Furthermore, scientific activity of Dr. Galgani is also aimed at understanding how the immune system is involved in the pathogenesis of different diseases, such as inflammatory diseases and cancer (**Galgani M. Fert. and Ster. 2015**).

Professional Memberships:

Societies:

- Società Italiana di Immunologia, Immunologia Clinica ed Allergologia (ex Gruppo di Cooperazione in Immunologia, GCI), SIICA;
- Scuola Superiore di Immunologia “Ruggero Ceppellini”;
- Associazione Italiana di NeuroImmunologia (AINI);
- Gruppo Italiano di Citometria (GIC);
- European Association for the Study of Diabetes (EASD).

Grants as Principal Investigator:

Grant **1-PNF-2015-115-S-B** - Immune Cells Assay to predict C-peptide Loss form Juvenile Diabetes Research Foundation (JDRF) – USA. 2015.

Clinical and Scientific Collaborators:

- Prof. Antonio La Cava, Department of Medicine, UCLA, USA;
- Prof. CM Cilio, Lund University, Skåne University Hospital SUS, Malmö, Svezia;
- Prof. Oreste Gualillo, SERGAS, Xerencia Xestión Integrada de Santiago, Santiago de Compostela Espana;
- Prof. Christos Mantzoros, Division Of Endocrinology, Diabetes, and Metabolism Beth Israel Deaconess Medical Center Feldberg Boston, MA, USA).
- Prof. Ennio Carbone, Department of Experimental and Clinical Medicine, University of Catanzaro 'Magna Graecia', Catanzaro, Italy; Department of Microbiology Tumor and Cell Biology, Karolinska Institute, Stockholm, Sweden.

Meetings

La Citometria a Flusso - Gli Anticorpi Monoclonali – 17 Giugno 2003 A.O MONALDI - NAPOLI ;

VIII Corso Nazionale di Biologia Cellulare e Molecolare in Pneumologia – BIOCEP – 1-3 Giugno 2005 A.O. MONALDI – NAPOLI;

Cooperation Maroco-Italienne Università Tor Vergata, Insitut National d’Hygiène Rabat. “Tubercolosi e Citometria a flusso” 22 – 23 Novembre 2004 RABAT MAROCCO;

Corso di Aggiornamento "L'Immunità in Patologia Umana" 2012. EFIS-EJI Scuola Superiore di Immunologia “Serafino Zappacosta” – Napoli. 24 Settembre – 17 Dicembre 2012;

Corso di Aggiornamento "Immunodeficienze in Pediatria" Febbraio-Maggio 2015. EFIS-EJI Scuola Superiore di Immunologia “Serafino Zappacosta” – Napoli.

Honors and Awards