

## **Giuseppe Matarese MD, PhD**

### **Education and training**

Date of birth: 23<sup>rd</sup> August 1970

Place of birth: Napoli, Italy. Married (09/07/07)

**1983 - 1988** Liceo Classico (High school, Latin/Greek), Salesiani College, Napoli, Italy;

**1988 - 1994** Medical research student, Laboratory of Immunology, Dipartimento di Biologia e Patologia Cellulare e Molecolare, Università di Napoli "Federico II" (Supervisor: Prof. Serafino Zappacosta);

**1993** Research Trainee in Immunology at the Department of Medicine, University of California at San Diego (UCSD), La Jolla, California, USA (Supervisors: Prof. Dennis Carson and Dr. Salvo Albani);

**23/09/1994** MD Degree "*summa cum laude*", Università di Napoli "Federico II", School of Medicine and Surgery, Napoli, Italy;

**1994 - 1999** Medical intern and medical resident program, Dipartimento di Biologia e Patologia Cellulare e Molecolare, Università di Napoli "Federico II", Clinical Pathology Section (Supervisors: Prof. Serafino Zappacosta and Prof. Vincenzo Macchia);

**1999** Speciality in Clinical Pathology, "*summa cum laude*";

**1995** Visiting Scientist, HLA Tissue Typing Laboratory at the Royal Post-Graduate Medical School, London, UK (Supervisor: Dr. Nick Davey);

**1997** Research Associate at the Department of Immunology, Hammersmith Hospital, Imperial College School of Medicine, London, UK (Supervisor: Prof. Robert I. Lechler);

**2000 - 2001** Research Associate, with a Fellowship from the European Union Social Fund, at the Dipartimento di Biologia e Patologia Cellulare e Molecolare, Università di Napoli "Federico II", Napoli, Italy;

**2001 - 2003** PhD program in Scienze Endocrinologiche e Metaboliche, Università di Napoli "Federico II", Napoli, Italy;

**05/03/2004** PhD award in Scienze Endocrinologiche e Metaboliche, Università di Napoli "Federico II", Napoli, Italy; thesis titled: "*Role of leptin in autoimmunity*" (*see supporting scanned documents*);

**2001 - (currently)** First Class Researcher at Istituto di Endocrinologia e Oncologia Sperimentale, Consiglio Nazionale delle Ricerche (IEOS-CNR), Napoli, Italy (Head of IEOS-CNR: Prof. Eduardo Consiglio).

### **Employment, Research Experience and International Collaborations**

Giuseppe Matarese, started his training as student fellow in immunology while he was at the School of Medicine and Surgery, Università di Napoli "Federico II" in 1991, working in the Lab. of Immunology at the Dipartimento di Biologia e Patologia Cellulare e Molecolare, Università di Napoli "Federico II", under the supervision of Prof. Serafino Zappacosta. During this period of training Giuseppe Matarese worked on his graduation thesis, on the role of gamma-delta T cells in thyroid autoimmunity. In 1993, Giuseppe Matarese spent three months as "Research Trainee" in immunology at the Dept. of Medicine, University of California San Diego, under the supervision of Dr. Salvo Albani and Prof. Dennis Carson, working on autoimmune dermatomyositis. After the degree in Medicine and Surgery in 1994, first as Consiglio Nazionale delle Ricerche (CNR) Fellow (1994-1995) and later on as Clinical Pathology Fellow (1995-1999), Giuseppe Matarese focused his research topics on intracellular signaling of T cell receptor after stimulation with altered peptide ligands, under the supervision of Dr. Luigi Racioppi and Prof. Serafino Zappacosta (1995-1996). In 1995, Giuseppe Matarese spent a period of two months in the HLA-Tissue Typing Laboratory, Hammersmith Hospital, London, under the supervision of Dr. Nick Davey, where he developed experience with the tissue typing techniques and the transplant immunology. In 1997, Giuseppe Matarese spent one and half year at the Dept. of Immunology, Imperial College of Medicine,

London, UK, under the supervision of Prof. Robert Lechler. During this time he worked on the role of leptin in immune response and characterization of human CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells. After the time spent in London, Giuseppe Matarese carried on with research on leptin and immune response in Napoli, particularly focusing on the role of leptin in autoimmunity (EAE, MS, type 1 diabetes) in mice and humans. Currently, Giuseppe Matarese, as Researcher at the IEOS-CNR, is the group leader of the ImmunoEndocrinology Study Group at the Laboratory of Immunology and his main focus is the study of the role of leptin in autoimmune disease susceptibility. Dr. Matarese collaborates with a series of international world leading Groups involved in the study of metabolism and immunity such as Prof. Steve O’Rahilly, University of Cambridge, UK; Prof. Christos Mantzoros, Harvard University, USA; Prof. Antonio La Cava, UCLA, USA; Dr. Edward Leiter, The Jackson Laboratory, USA and Prof. Richard Ross, University of Sheffield, UK.

**Honors and Awards:** Fellow of National Research Council (1994); Roche Prize for Immunology (1998); Harlan Prize for Immunology (2004); Rita Levi Montalcini Prize for Multiple Sclerosis awarded to the best Italian investigator in multiple sclerosis (2005).

**Peer Reviews:** Grants (*ad hoc* reviewer): National Research Council (CNR/CIVR, Italy); Agencies de Richerché Medicale, ANR (France); Inflammatory Bowel Disease Foundation (USA); Israeli Science Foundation (Israel); University of Sheffield Grants for Research Programs (UK); Juvenile Diabetes Research Foundation (UK); Fondazione Italiana Sclerosi Multipla (FISM-Italy); National Swiss Science foundation (Geneve). Journals (*ad hoc*, selected): *J Clin Invest*, *J Immunol*, *J Leuk Biol*, *J Clin Immunol*, *Clin Endocrinol*, *Endocrinology*.

**Professional Memberships:** American Association of Immunologists (AAI); Società Italiana di Immunologia ed Immunologia Clinica (SIICA); Società Italiana di Neuroimmunologia (AINI); Growth Hormone Research Society (GRS); Italian Society for Clinical Pathology (AIPAC); Scuola Superiore di Immunologia Ruggero Ceppellini; Henry Kunkel Society; European Association for the Study of Diabetes (EASD).

**Patents:** 1) Patent on “*Use of leptin, its derivatives, agonists and antagonists in modulating immune responses*”, UK patent application n. GB 9807062.6; 2) Patent on “*Leptin antagonist and method for quantitative measurement of leptin*”, EU patent n. 04797956.2-2402-EP2004013043. 3) Patent on “*Leptin ligand*” UK patent application n. 0605162.7; 4) Patent on “*Adjuvant*” UK patent application n. 0605163.5.