

BIOGRAPHICAL SKETCH

Name: Claudia La Rocca, PhD	Position/Title: Researcher , at the Istituto per l'Endocrinologia e l'Oncologia Sperimentale , Consiglio Nazionale delle Ricerche (IEOS-CNR)
-----------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

Education

Institution and Location	Degree	Year Conferred	Field of Study
Biology Degree, " <i>summa cum laude</i> ", Università di Napoli "Federico II", Napoli, Italy.	Bachelor Degree	2009	Immunology
PhD program in " Molecular Pathology and Physiopathology", Università di Napoli "Federico II", Napoli, Italy.	PhD	2011-2014	Molecular Pathology and Physiopathology

Research and Professional Experience**Positions and Employment**

- 2009: Degree in "General biology and applied", *summa cum laude*, defending her thesis in Immunology. Supervisor: Prof. Giuseppe Matarese.
- 2011-2014: PhD in Molecular Pathology and Physiopathology, Department of Cellular and Molecular Biology and Pathology of "Federico II" University of Napoli, Italy, defending the thesis: "*In vivo effects of metreleptin treatment on immune system of females with acquired hypoleptinemia*". Supervisor: Prof. Giuseppe Matarese.
- 2014-july 2020: Postdoctoral research fellow, in research program "ERC GRANT n. 310496-menTORingTregs" at the laboratory of Immunology, Istituto di Endocrinologia e Oncologia Sperimentale (IEOS-CNR), Napoli, Italy.
- August 2020-currently: Researcher at Istituto per l'Endocrinologia e l'Oncologia Sperimentale "G. Salvatore" Consiglio Nazionale delle Ricerche (IEOS-CNR).

Research Experience

- 2008-2009: 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. Giuseppe Matarese.

- 2011-2014: Started PhD Program in Molecular Pathology and Physiopathology, at the Department of Cellular and Molecular Biology and Pathology of “Federico II” University of Naples, under the supervision of Prof. Giuseppe Matarese. In that period Dr. La Rocca focused her attention on the role of leptin in the modulation of immune response, investigating the role of recombinant-human leptin in women affected by acquired hypoleptinemia. She collaborated for this project with Prof. Mantzoros from Harvard University, USA.
- 2014-july 2020: Postdoctoral research fellow at the laboratory of Immunology in the Istituto di Endocrinologia e Oncologia Sperimentale (IEOS-CNR) Napoli, under the supervision of Prof. Giuseppe Matarese. In this period, Dr. La Rocca is focusing her attention on the study of role of nutritional status and metabolism in particular on susceptibility to *Mycobacterium tuberculosis* (Mtb).
- august 2020-currently: CNR-research contract at the “Istituto di Endocrinologia e Oncologia Sperimentale” in Napoli, Italy in the Laboratory of Immunology, under the supervision of Dr. Giuseppe Matarese. Her research activity is based on the study of relationship among immune system, metabolism and inflammatory immune-mediated pathologies

Professional Memberships:

- Italian Society of Immunology, Clinical Immunology and Allergology (SIICA).
- Superior School of Immunology “Ruggero Ceppellini”, directed by Prof. Serafino Zappacosta and by Dr. Silvia Fontana.
- Italian Association of NeuroImmunology (AINI).

Honors and Awards

- Winner of a PhD fellowship in Molecular Pathology and Physiopathology at the University of Naples “Federico II”, Naples, Italy.
- Winner of the best abstract for the study of metabolic profile of RRMS patients (XXIV AINI Congress 2014).
- Winner of scientific prize DSB 2018/2019 "Metabolismo e sue alterazioni: dalla produzione di energia cellulare alla patologia"

Meetings

- Advanced courses of Immunology, organized by School Superiore of Immunology “R.Cappellini” (Sorrento, settembre 2009).
- Course of BD FACSCanto II (Milano, marzo 2010).
- Abstract at 49h Annual meeting of the European Society for Paediatric Endocrinology (ESPE). Rosa Nugnes, Adriana Franzese, Gabriella Quaglia, **Claudia La Rocca**, Salvatore De Simone, Mario Galgani, Giuseppe Matarese. Imbalance of Dendritic Cells (DCs) compartments in children and adolescents with Type 1 Diabetes Mellitus. (Praga, Settembre 2010).
- Abstract at 49h Annual meeting of the European Society for Paediatric Endocrinology (ESPE). Rosa Nugnes, Adriana Franzese, Olmina Cavaliere, **Claudia La Rocca**, Mario Galgani, Salvatore

De Simone, Giuseppe Matarese. Altered serum levels of leptin and soluble leptin in children and adolescents with type 1 Diabetes Mellitus. (Praga, Settembre 2010).

- Abstract FISM. Anna Maria Malfitano, Clementina Manera, Sreemanti Basu, Chiara Laezza, **Claudia La Rocca**, Giuseppe Matarese, Adriano Martinelli, Bonnie Dittel, Maurizio Bifulco. Design, synthesis and study of the therapeutic efficacy of novel modulators of the endocannabinoid system in multiple sclerosis. (Roma, maggio 2010).
- Abstract FISM- Anna Maria Malfitano, Clementina Manera, Chiara Laezza, **Claudia La Rocca**, Giuseppe Matarese, Adriano Martinelli, Bonnie Dittel, Maurizio Bifulco. Study of the therapeutic efficacy of novel modulators of the endocannabinoid system in multiple sclerosis. (Roma, maggio 2010).
- Abstract to scientific day. F. Perna, F. Flavio, F. Garziano, S. De Simone, **Claudia La Rocca**, F. Carbone. Analisi citofluorimetrica della degranulazione basofila specifica. (2010).
- Abstract to ABCD-(Association of cellular biology and differentiation). **Claudia La Rocca**, F. Carbone, C. Procaccini, C. Mantzoros, G. Matarese. Selective capacity of metreleptin to reconstitute CD4⁺ T cell number in lean females with hypothalamic amenorrhea. (Gubbio, ottobre 2011).
- Advisory Board dal titolo "Implantation"; Merck-Serono. (Baronissi-SA 23 luglio 2012).
- Advisory board "Ovarian sensitivity to Controlled Ovarian Stimulation (COS) according to patient genetic and immunological profile"; Merck-Serono. (Roma 15 novembre 2012).
- Advanced courses of Immunology, organized by School Superiore of Immunology "R.Cappellini" Innate Immunity 2012: from Evolution to Revolution". (Sorrento 2012).
- Seahorse XF Training. (Copenhagen 2013).
- Poster to XVII Convention Scientifica Telethon. Leptin: cellular and molecular base to an innovative immunotherapeutic approach in type 1 diabetes. **Claudia La Rocca**, Mario Galgani, Veronica De Rosa, Claudio Procaccini, and Giuseppe Matarese. (Riva del Garda, marzo 2013).
- Oral presentation to XLIV (Società Italiana di Neurologia)-SIN. Meta-immunological profiling of patients with multiple sclerosis reveals a specific change in circulating adipocytokines and novel cellular markers of disease progression. **C. La Rocca**, F. Carbone, S. Montella, P.B. Carrieri, R. Lanzillo, V. Brescia-Morra, I. Cerillo, D. Bruzzese, G. Matarese on behalf of the Multiple Sclerosis Research University Network (MS RUN) group. (Milano, novembre 2013).
- Poster to XLIV congresso Società Italiana di Neurologia-SIN. Distinct metabolic switches induced by interferon-beta treatment of patients with multiple sclerosis. **C. La Rocca**, F. Carbone, S. Montella, P.B. Carrieri, R. Lanzillo, V. Brescia-Morra, I. Cerillo, D. Bruzzese, G. Matarese on behalf of the Multiple Sclerosis Research University Network (MS RUN) group (Milano, novembre 2013).
- The BD Horizon Tour, New insights for multicolor panel design. CEINGE, Naples, Italy. Chairman: Prof. Luigi Del Vecchio. 2014.
- Poster to XXIV AINI Congress 2014. Effect of interferon-beta treatment on meta-immunological profiling and intracellular metabolism of T cells from patients with multiple sclerosis. **La Rocca C**, Carbone F, Perna F, Montella S, Carrieri PB, Lanzillo R, Brescia Morra V, Cerillo I, Bruzzese D, Matarese G.
- Course of cytometry of circulating endothelial cells. Pol University of biomedical campus, (Rome-Italy 2015).
- 14th MULTIPLE SCLEROSIS LAB RETREAT. (Lucignano, 18-21 gennaio 2012).

- 15th MULTIPLE SCLEROSIS LAB RETREAT. (Sinalunga, 30-01/02-02-2013).
- 16th MULTIPLE SCLEROSIS LAB RETREAT. (Sinalunga, gennaio 2014).
- 17th MULTIPLE SCLEROSIS LAB RETREAT (Sinalunga-Siena, gennaio 2015).
- 18th MULTIPLE SCLEROSIS LAB RETREAT (Dynamo Camp-Pistoia, gennaio 2016).