

Curriculum ENG

CURRENT POSITION

Researcher (RTDA) and Honorary consultant in Endocrinological Sciences and Clinical Fellow in Endocrinology & Diabetes, UOD Diabetology, Dept of Experimental Medicine, Sapienza University, Rome, Italy

RESEARCH INTERESTS:

Cardiovascular risk in diabetes, obesity; heart disease in diabetes; impact of obesity in autoimmune diabetes

EDUCATION

- **October 2023-in course-** PhD student in Endocrinological Sciences, Department of Experimental Medicine, Sapienza University
- **November 2022-** CCT in Endocrinology and Diabetes, Sapienza University, with 70/70 cum laude
- **July 2017-** Degree in Medicine and Surgery, from La Sapienza, University of Rome, with 110/110 cum laude (average of exam's marks: 29.8/30)

CLINICAL EXPERIENCE

January 2023-In course

Clinical fellow in Endocrinology & Diabetes, UOD Diabetology, Policlinico Umberto I, "La Sapienza", University of Rome, Italy. Clinical activity in Diabetology outpatient clinics: Autoimmune Diabetes (Late Adult Onset Autoimmune Diabetes and Type 1 Diabetes mellitus), Type 2 Diabetes mellitus, Gestational Diabetes, Secondary Diabetes, Obesity.

March 2022-September 2022

Honorary clinical fellow in Endocrinology & Diabetes, Addenbrooke's Cambridge Hospital, Cambridge, UK. I participate to Thyroid Clinics/Bone Metabolism Clinics/Adrenal Disease Clinics.

November 2018- November 2022

Registrar in Endocrinology and Metabolic Disease, at Policlinico Umberto I, "La Sapienza" University, Rome, Italy

RESEARCH EXPERIENCE

March 2023- in course

PhD student in Endocrinology Sciences, Department of Experimental Medicine, Sapienza University of Rome. My research focuses of the impact of obesity on cardiovascular risk of autoimmune diabetes, with a special focus on body fat distribution and endothelial dysfunction. I am involved as sub investigator in sponsored clinical trials from Sanofi, Eli Lilly, Novo Nordisk.

September 2021- October 2022

Addenbrooke's Charitable Trust/BRC clinical research fellow at the Antonio Vidal-Puig Laboratory, Institute of Metabolic Sciences, Cambridge University. My research focused on the lipid remodeling activity of human immune cells in the context of metabolic diseases.

November 2018- in course

Co-investigator of clinical research projects as part of my medical residency program with a special focus on the metabolic effects of nutritional ketosis.

August 2017-September 2017

Research intern at Francesca Spagnoli Lab, Max Delbrück Center, Berlin, Germany. My research focused on differentiation of beta-cells in vitro from fibroblast cell lines.

November 2016-December 2016

Research intern at Eleftheria Maratos-Flier/Jeffrey Flier Lab, Center of Life Sciences, Section of Endocrinology, Beth Israel Deaconess Medical, Harvard Medical School, Boston, MA, USA. My research focused on FGF21-mediated liver effects in mice models of nutritional ketosis.

GRANTS AND AWARDS

- **Addenbrooke's Charitable Trust Clinical Research Fellowship 2021/2022** for the project "Lipid remodeling ability in human peripheral blood mononuclear cells: a predictor of metabolic impairment?"
- **Ermenegildo Zegna Founder's Scholarship 2021** for supporting studies abroad
- **Best Poster Prize 2021 at the X Conference of the Italian Society of Obesity (SIO)** for the poster "IGF1-SDS in metabolically healthy and unhealthy patients with obesity: a cross-sectional study in 2032 patients"
- **"Sapienza University Grant for Young Researchers"** 2019, 2020 and 2021
- Enrolled in the faculty of Medicine's **Academic Excellence Program** from January 2015 to July 2017
- **University of Rome "La Sapienza" Scholarship for Thesis Abroad 2015/2016**
- **Erasmus Plus Traineeship Scholarship 2016/2017**

RESEARCH SKILLS

- **BASIC RESEARCH:** Expertise in ELISA assays, DNA, RNA, Lipids extractions; PCR; RT-qPCR; human PBMC and macrophages cell culture; fatty acids quantification through liquid chromatography-mass-spectrometry; Basic knowledge of animal mice work.
- **CLINICAL RESEARCH:** Management and organization skills pertaining to both sponsored and spontaneous clinical and basic research projects, including draft of protocols, interface with the local ethics committee, data collection, analysis and interpretation, draft of manuscripts, research activity dissemination through articles and conferences; Excellent command of statistics programs (Graphpad, SPSS, Excel)

CERTIFICATIONS

- General Medical Council Full registration with license to practice (From August 2021-in course)
- Ordine dei Medici di Frosinone registration (from March 2018-in course)
- GCP-IMP management certificate, issued by NIHR learning, March 2022
- IELTS: 8 overall (taken on March, 2021)
- Basic Life Support Defibrillation (BLSD), 2017
- Pianoforte Diploma di Compimento Inferiore

KEY CONFERENCE PRESENTATIONS

- “Lipid remodeling in human peripheral blood mononuclear cells as a link to metabolic diseases”. Poster, British Heart Foundation Cambridge University Symposium 2022.
- “Lipid remodeling in human peripheral blood mononuclear cells as a link to metabolic diseases”. Oral communication. National Congress of Italian Society of Obesity. March 2023.
- “Gender Difference in Obesity: different prevalence of metabolic comorbidities”, Gender Endocrinology Conference, Italian Society of Endocrinology, April 2023
- “Lower Osteocalcin Levels Are Associated with Abnormal Adipose Tissue Distribution and Higher Cardiovascular Risk in People with Autoimmune Diabetes”. American Diabetes Association, Orlando, FL, June 2024
- “Obesity in Autoimmune Diabetes: Diagnostic and Therapeutic Insights”, Associazione Medici Diabetologia, Trieste, Italy, June 2025

Curriculum ITA

POSIZIONE ATTUALE

Ricercatore (RTDA) e consulente onorario in Scienze Endocrinologiche e Clinical Fellow in Endocrinologia e Diabete, UOD Diabetologia, Dipartimento di Medicina Sperimentale, Università “La Sapienza”, Roma, Italia.

INTERESSI DI RICERCA

Rischio cardiovascolare in obesità e diabete; cardiomiopatia diabetica nel diabete autoimmune e diabete di tipo 2; impatto dell’obesità sul rischio cardiometabolico nel diabete autoimmune.

FORMAZIONE

Ottobre 2023 – in corso

Dottorato di Ricerca in Scienze Endocrinologiche, Dipartimento di Medicina Sperimentale, Università “La Sapienza”, Roma.

Novembre 2022

Specializzazione in Endocrinologia e Diabetologia, Università “La Sapienza”, Roma – voto **70/70 e lode**.

Luglio 2017

Laurea Magistrale in Medicina e Chirurgia, Università “La Sapienza”, Roma – voto **110/110 e lode**

(media esami: **29,8/30**).

ESPERIENZA CLINICA

Gennaio 2023 – in corso

Clinical Fellow in Endocrinologia e Diabete, UOD Diabetologia, Policlinico Umberto I, Università “La Sapienza”, Roma, Italia.

Attività clinica ambulatoriale in diabetologia:

- Diabete autoimmune (LADA e diabete mellito di tipo 1)
- Diabete mellito di tipo 2
- Diabete gestazionale
- Diabete secondario
- Obesità

Marzo 2022 – Settembre 2022

Honorary Clinical Fellow in Endocrinology & Diabetes, Addenbrooke’s Hospital, Cambridge, Regno Unito.

Partecipazione a:

- Ambulatori di patologia tiroidea
- Ambulatori di metabolismo osseo
- Ambulatori di patologie surrenaliche

Novembre 2018 – Novembre 2022

Medico specializzando in Endocrinologia e Malattie del Metabolismo, Policlinico Umberto I, Università “La Sapienza”, Roma.

ESPERIENZA DI RICERCA

Marzo 2023 – in corso

Dottorando in Scienze Endocrinologiche, Dipartimento di Medicina Sperimentale, Università “La Sapienza”, Roma.

La ricerca è focalizzata sull’impatto dell’obesità sul rischio cardiovascolare nel diabete autoimmune, con particolare attenzione alla distribuzione del grasso corporeo e alla disfunzione endoteliale.

Coinvolgimento come **sub-investigatore** in trial clinici sponsorizzati da **Sanofi, Eli Lilly e Novo Nordisk**.

Settembre 2021 – Ottobre 2022

Clinical Research Fellow (Addenbrooke’s Charitable Trust/BRC) presso il laboratorio di Antonio Vidal-Puig, Institute of Metabolic Sciences, University of Cambridge.

Ricerca focalizzata sull’attività di rimodellamento lipidico delle cellule immunitarie umane nel contesto delle malattie metaboliche.

Novembre 2018 – in corso

Co-investigatore in progetti di ricerca clinica nell’ambito della scuola di specializzazione, con particolare focus sugli effetti metabolici della **chetosi nutrizionale**.

Agosto 2017 – Settembre 2017

Research Intern, laboratorio di Francesca Spagnoli, Max Delbrück Center, Berlino, Germania.

Ricerca sulla differenziazione in vitro delle cellule beta a partire da linee cellulari fibroblastiche.

Novembre 2016 – Dicembre 2016

Research Intern, laboratorio di Eleftheria Maratos-Flier / Jeffrey Flier, Center of Life Sciences, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA.

Ricerca sugli effetti epatici mediati da FGF21 in modelli murini di chetosi nutrizionale.

FINANZIAMENTI E PREMI

- **Addenbrooke’s Charitable Trust Clinical Research Fellowship 2021/2022** per il progetto: “Lipid remodeling ability in human peripheral blood mononuclear cells: a predictor of metabolic

impairment?”

- **Ermenegildo Zegna Founder’s Scholarship 2021** per supportare studi all’estero.
- **Best Poster Prize 2021**, X Congresso della Società Italiana dell’Obesità (SIO) per il poster: “IGF1-SDS in metabolically healthy and unhealthy patients with obesity: a cross-sectional study in 2032 patients”.
- **Sapienza University Grant for Young Researchers** – 2019, 2020, 2021.
- Partecipazione al **Programma di Eccellenza Accademica** della Facoltà di Medicina (Gennaio 2015 – Luglio 2017).
- **Borsa di studio “La Sapienza” per tesi all’estero** (2015/2016).
- **Erasmus+ Traineeship Scholarship** (2016/2017).

COMPETENZE DI RICERCA

Ricerca di base

- ELISA
- Estrazione di DNA, RNA e lipidi
- PCR e RT-qPCR
- Coltura cellulare di PBMC umane e macrofagi
- Quantificazione degli acidi grassi tramite **LC-MS**
- Conoscenze di base di modelli murini sperimentali

Ricerca clinica

- Gestione e organizzazione di progetti di ricerca clinica sponsorizzati e indipendenti
- Stesura di protocolli
- Interfaccia con comitati etici
- Raccolta, analisi e interpretazione dei dati
- Redazione di manoscritti scientifici
- Disseminazione dei risultati tramite articoli e congressi
- Ottima conoscenza dei software statistici: **GraphPad, SPSS, Excel**

CERTIFICAZIONI

- **General Medical Council** – Registrazione completa con licenza a esercitare (da Agosto 2021 – in corso)
- **Ordine dei Medici di Frosinone** (da Marzo 2018 – in corso)
- **GCP-IMP Management Certificate**, NIHR Learning (Marzo 2022)
- **IELTS**: punteggio complessivo **8.0** (Marzo 2021)
- **BLSD – Basic Life Support Defibrillation**, 2017
- **Diploma di Compimento Inferiore in Pianoforte**

PRINCIPALI PRESENTAZIONI A CONGRESSI

- “Lipid remodeling in human peripheral blood mononuclear cells as a link to metabolic diseases”. Poster, **British Heart Foundation Cambridge University Symposium**, 2022.
- “Lipid remodeling in human peripheral blood mononuclear cells as a link to metabolic diseases”. Comunicazione orale, **Congresso Nazionale della Società Italiana dell’Obesità**, Marzo 2023.
- “Gender Difference in Obesity: different prevalence of metabolic comorbidities”. **Gender Endocrinology Conference**, Società Italiana di Endocrinologia, Aprile 2023.
- “Lower Osteocalcin Levels Are Associated with Abnormal Adipose Tissue Distribution and Higher Cardiovascular Risk in People with Autoimmune Diabetes”. **American Diabetes Association**, Orlando, Florida, Giugno 2024.
- “Obesity in Autoimmune Diabetes: Diagnostic and Therapeutic Insights”. **Associazione Medici Diabetologi**, Trieste, Giugno 2025.

