

Department of Movement, Human and Health Sciences Department, University of Rome "Foro Italico" and University Sapienza, Department of Experimental Medicine, Section of Endocrinology and Nutrition

Mentor: Name: Silvia Migliaccio, M.D., Ph.D.

My group is involved in translational studies with the aim of characterize molecular, biochemical and cellular mechanisms involved in metabolic diseases. I have specific expertise on the role of steroid receptors and on "endocrine disruptors", working on these particular issues since 1990 and having published many manuscripts on the subject. In addition, as PI, I have worked on research projects concerning the clinical management of patients with severe osteoporosis, sarcopenia and obesity evaluating the interaction among adipose, skeletal and muscle tissues.

Thus, the everyday work of my research group involves both clinical and basic sciences activities, which involves cell biology experiments, protein and DNA and RNA extraction and analysis. Western Blot analysis, ELISA, RT-PCR, MiRNA detection.

Our laboratories have technological devices, in particular: Illumina Genome Analyzer Iix, Illumina BeadXpress, Bioanalizzatore Agilent, Maxwell RSC Promega, DNA automate sequencer ABI Prism 3100, Real Time Abi Prism Viia7, Biorad Imager FX Phosphorimager, standard and fluorescence microscopes, CCD camera, Timelapse system with live videomicroscopy, Cytofluorimeters, BectonDickinson FACSCalibur and FACSAria, confocal microscopes, Laser Capture Microdissection, Nanostring nCounter Sprint profiler, BioRad ddPCR.

Dr Maria Chiara Massari is one of the young endocrinology residents and can be considered the junior clinician.

Mentor CV: Name: Silvia Migliaccio, M.D., Ph.D.

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Scopus Author ID

ERC field Macrosectors Life Sciences: LS3, LS4, LS7, LS2,

H-index 35 (Scopus); 41 (Google Scholar). H-Index scopus 10 anni: 24;

citazioni Scopus: 4145; citazioni Google Scholar 6046; IF >300

DEGREES

- 1986: M.D. degree with 110/110 cum laude
- 1987: Board certified in general medicine, Rome, Italy
- 1993: Course in "Clinical Endocrinology" Harvard Medical School Continuing Education, Harvard University, Boston, MA, USA
- 1996: Specialty in Endocrinology and Metabolic Diseases, Endocrinology School, University "La Sapienza" of Rome, Italy
- 1996: Ph.D. in Endocrinology and Metabolic Diseases, University "La Sapienza" of Rome, Italy
- 1998: Certified nutritionist, Department of Continuing Education, Rome, Italy
- 2002: Training course in clinical research methodology, School of Continuing Education, Rome
- 2008: Specialty in Human Nutrition, University of Tor Vergata, Rome

SOCIETY MEMBERSHIP:

- 1991-date: Italian Society of Endocrinology (SIE)
- 1993-date: Endocrine Society
- 1996-2002: American Society for Bone and Mineral Metabolism (ASBMR)
- 2000-date: European Calcified Tissue Society (ECTS)
- 2004-date: Italian Society of Food Sciences (SISA)
- 2005-date: Italian Society of Osteoporosis and bone and mineral diseases (SIOMMMS)
- 2005-date: Italian Society of Obesity (SIO)
- 2015-date: European Society of Endocrinology (ESE)

CHRONOLOGY of EMPLOYMENT:

- 1986-87 : Post-doctoral Fellow, Department of Andrology, Policlinico Umberto I, "La Sapienza" University of Rome
- 1987 : Guest Researcher, Laboratories of Cellular and Structural Biology, HSC, San Antonio, TX, USA
- 1988-89 : Post-doctoral fellow (Research Associate), Department of Physiology and Pediatrics, Laboratories for Reproductive Biology, University of North Carolina at Chapel Hill
- 1990-1995: Visiting Associate, Laboratory of Reproductive and Developmental Toxicology, NIEHS, Research Triangle Park, NC, USA

- 1995-date: Research Scientist, Bone Biopathology Labs, Clinical Physiopathology & Histology & Medical Embryology Departments, University of Rome "Sapienza", Rome Italy
- 1999-2003: Senior Research Scientist (Assegnista), Bone Biopathology Labs, Department of Experimental Medicine, Università dell'Aquila, Italy
- 1999-2001: Consultant for Istituto Dermopatico dell'Immacolata, Rome, Italy
- 1999-2001: Consultant Department Histology and Medical Embriology, University "La Sapienza", Rome
- 2003-2011: Researcher, Department of Medical Pathophysiology, University Sapienza of Rome
- 2003-date: Lecturer Residency School Endocrinology Metabolic Diseases, University Sapienza, Rome
- 2011-2014: Researcher, Department of Movement, Human and Health Sciences Department, University of Rome "Foro Italico"
- 2015-date: Associate Professor, Department of Movement, Human and Health Sciences Department, University of Rome "Foro Italico" assignment

PROJECTS FUNDINGS

- 1996-2000: Co-PI projects Telethon, ASI, AIRC, European Concerted Action, EMBL
- 1996-2000: PI projects ASI, European Concerted Action, EMBL
- 2001-2003 PI Research Unit project "Intracellular signals in musculoskeletal cells subjected to microgravity" funded by Agenzia Spaziale Italiana (ASI) Contratto I/R/375/02.
- 2003-2006 PI Research Unit of European Project, Title: PHYTOHEALTH "Improving health through dietary phytoestrogens: a pan-european network on consumers' issues and opportunities fro produceers". Proposal n° QLRT-2001-02453.
- 2008-2010: PI Research Unit of Multicenter National Study on "Gestione clinica del paziente affetto da osteoporosi severa (ISSO)", ELI-Lilly Italia.
- 2011-2015 Scientific Coordinator Research Activities of research project of "Progetti Operatività Nazionale (PON) Ministero dello Sviluppo Economico, Ministero dell'Istruzione, Università e Ricerca, Fondo Europeo di Sviluppo Regionale (Unione Europea)". PON01_00829 "Piattaforme tecnologiche innovative per l'ingegneria tissutale", PI Project Prof Andrea Lenzi.
- 2013-2016: PI Research Unit MIUR/PRIN: Studio dell'interazione tra metabolismo glucidico e osseo per la caratterizzazione cardio-metabolica di una popolazione di giovani obesi, protocollo 201098WFZ2_004.

- 2013-2016: Member of research group of a Joint Programming Initiative A Healthy Diet for a Healthy Life (JPI HDHL), first joint action: DEDIPAC - the Knowledge Hub on the DEterminants of Diet and Physical Activity. Title: "Determinants of Diet and Physical Activity; Knowledge Hub to integrate and develop infrastructure for research across Europe" (DEDIPAC KH). National Title "Life STyle Advancement Network (LISTANet.
- 2016-2019: PI project MIUR (National Ministry of Research) Research Unit of PRIN, "Complex signatures of circulating miRNAs as novel biomarkers for osteoporosis and fracture risk", protocollo 201528E7CM_004.
- 2017-2020: PI National Project "Identification and characterization of patients affected by chronic surgical and congenital hypoparathyroidism in Italy" International Shire Funding
- 2019-date: PI Research Unit of National Project "Physiopathology, Epidemiology and Genetics of primary pArathyroid hormone deficiency and reSistance: a mUlticenter italian Study (PEGASUS)" funded by MIUR (National Ministry of Research)
- 2021-date: PI National Project "Gene/environment interactions in breast and thyroid cancers: defining the biological role of and actioning endocrine disruptors (ED) and lifestyle to develop rational therapeutic/preventive interventions. ASTEROID- breASt Thyroid canCERs endOcrIne Disruptors" funded by MIUR (National Ministry of Research)