

## PERSONAL INFORMATION

### Stefano Menini

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Sex: M Date of birth: 04/11/1967 Nationality: Italian



## CURRENT POSITION

Associate Professor, SSD MEDS-08/C "Scienza dell'Alimentazione e delle Tecniche Dietetiche Applicate", Department of Clinical and Molecular Medicine, School of Medicine and Psychology, "La Sapienza" University, Rome, Italy

## RESEARCH FIELD (MAX 1000 characters space included)

Research activities in the fields of diabetes, metabolic disorders, obesity, ageing, and their complications, including cancer. Overall objective: to study the molecular mechanisms involved in metabolic dysfunctions associated with nutritional-related disorders and age-related diseases. The purpose is to provide mechanistic insight into the molecular events involved in the pathogenesis of vascular and metabolic complications of diabetes mellitus and the metabolic syndrome (renal disease, atherosclerosis, NASH) as well as in the normal ageing process, to identify the potential molecular target(s) for novel preventive and therapeutic strategies for cardiometabolic diseases and cancers. Methods: cell and molecular biology application, morphometric and image analysis techniques to cell culture systems, experimental animal models and human samples. Relevant keywords for the call: carbonyl stress; food and systemic biomarkers; carnosine; cardiometabolic diseases; cancer.

## WORK EXPERIENCE

2018 - today

### Associate Professor, Human Nutrition (SSD MED/49)

Department of Clinical and Molecular Medicine, School of Medicine and Psychology, "La Sapienza" University, Rome, Italy

- Research activity
- Teaching activity within 1) "Diseases of the endocrine and metabolic system" program, School of Medicine and Psychology, and Faculty of Nursing, "La Sapienza" University of Rome, Italy; 2) Ph.D. program in "Morphogenesis & Tissue Engineering", part of the School of Doctorate in Biology and Molecular Medicine, SAIMLAL department- Histology and Medical Embryology Section, "La Sapienza" University of Rome, Italy
- Editorial activity: Member of the Editorial Board of "Metabolism - Clinical and Experimental" (2020 - on); Topic Editor of "Nutrients" (2021 - on); Section Editor for the "Cardiovascular and Metabolic Disorders" section of PeerJ (2021 - on); Academic Editor for PeerJ (2017 - on)

2016 -2018

### Senior Researcher (fixed term, Type b), Human Nutrition (SSD/MED49)

Department of Clinical and Molecular Medicine, School of Medicine and Psychology, "La Sapienza" University of Rome, Italy

- Research and teaching activities
- Editorial activity: Academic Editor of "PeerJ" for the sections "Diabetes & Endocrinology", "Nephrology" and "Nutrition" (2017 - on)

2012-2015

### Senior Researcher (fixed term, Type a), Endocrinology (SSD/MED13)

Department of Clinical and molecular Medicine, School of Medicine and Psychology, "La Sapienza" University of Rome, Italy

- Research and teaching activities

2004 - 2011

### Postdoc and Research Fellow, Endocrinology (SSD/MED13) and Nephrology (MED14)

Department of Clinical Sciences (2004-2008) and Department of Clinical and Molecular Medicine (2009-2011), "La Sapienza" University of Rome, Italy

- Research and teaching activities

2000 - 2004

### Postdoc Fellow, Anatomical Pathology (SSD/MED08)

University of Genoa, Italy

- Research and teaching activities

## EDUCATION AND TRAINING

- 2003 **Master's degree in Human Nutrition, cum laude**  
"Tor Vergata" University of Rome, Italy
- 2000 **Ph.D. in Biology and Pathology of Aging**  
University of Genoa, Italy
- 1995 **MA in Biology, cum laude**  
University of Genoa, Italy

## PERSONAL SKILLS

- Mother tongue Italian
- Other languages English (Level C1, writing and speaking)

## ADDITIONAL INFORMATION

### Publications and main indexes

Total number of publications in peer-reviewed journals: 78  
H-Index: 41 (Scopus), 46 (Google Scholar), 40 (ISI-Thomson/Publons)  
Google Scholar Page: <https://scholar.google.it/citations?user=xJOV5V4AAAAJ&hl=it>  
Scopus: <https://www.scopus.com/authid/detail.uri?authorid=6603648288>  
Publons: <https://publons.com/researcher/2824395/stefano-menini/>  
ORCID: <https://orcid.org/0000-0001-7328-2385>

### Honours and awards

2018 FFABR (funding for basic research activities) - MIUR AWARD FOR BASIC RESEARCH  
2012 "Francesca Podestà" Award, Italian Society of Diabetology (SID)  
2005 "Parma Diabete" Award, VII Edition (SID)  
2002 "Young Investigator Grant", University of Genoa, Genoa, Italy.

### Memberships and managerial activities

- Italian Society of Diabetology (SID)
- European Association for the Study of Diabetes (EASD)
- European Diabetic Nephropathy Study Group (EDNSG)

### Publications (last 5 years)

- Haxhi J, Vitale M, Mattia L, Giuliani C, Sacchetti M, Orlando G, Iacobini C, Menini S, Zanuso S, Nicolucci A, Balducci S, Pugliese G. Effect of sustained decreases in sedentary time and increases in physical activity on liver enzymes and indices in type 2 diabetes. *Front Endocrinol (Lausanne)*. 2024 May 24;15:1393859.
- Iacobini C, Vitale M, Haxhi J, Menini S, Pugliese G. Impaired Remodeling of White Adipose Tissue in Obesity and Aging: From Defective Adipogenesis to Adipose Organ Dysfunction. *Cells*. 2024 Apr 30;13(9):763.
- Iacobini C, Vitale M, Sentinelli F, Haxhi J, Pugliese G, Menini S. Renal Expression and Localization of the Receptor for (Pro)renin and Its Ligands in Rodent Models of Diabetes, Metabolic Syndrome, and Age-Dependent Focal and Segmental Glomerulosclerosis. *Int J Mol Sci*. 2024 Feb 12;25:2217.
- Casagrande V, Menini S, Internò C, Pugliese G, Federici M, Menghini R. TIMP3 overexpression in myeloid lineage alleviates pancreatic damage and confers resistance to the development of type 1 diabetes in the MLDS -induced model. *Front Endocrinol (Lausanne)*. 2024 Jan 19;14:1297847.
- Iacobini C, Vitale M, Pugliese G, Menini S. The "sweet" path to cancer: focus on cellular glucose metabolism. *Front Oncol*. 2023 May 25;13:1202093.
- Iacobini C, Vitale M, Haxhi J, Pesce C, Pugliese G, Menini S. Mutual Regulation between Redox and Hypoxia-Inducible Factors in Cardiovascular and Renal Complications of Diabetes. *Antioxidants (Basel)*. 2022;11:2183.
- Iacobini C, Vitale M, Haxhi J, Pesce C, Pugliese G, Menini S. Food-Related Carbonyl Stress in Cardiometabolic and Cancer Risk Linked to Unhealthy Modern Diet. *Nutrients*. 2022;14:1061.
- Iacobini C, Vitale M, Pugliese G, Menini S. Normalizing HIF-1α Signaling Improves Cellular Glucose Metabolism and Blocks the Pathological Pathways of Hyperglycemic Damage. *Biomedicines*. 2021;9:1139.
- Iacobini C, Vitale M, Pesce C, Pugliese G, Menini S. Diabetic Complications and Oxidative Stress: A 20-Year Voyage Back in Time and Back to the Future. *Antioxidants (Basel)*. 2021;10(5):727.
- Casagrande V, Iuliani G, Menini S, Pugliese G, Federici M, Menghini R. Restoration of renal TIMP3 levels via genetics and pharmacological approach prevents experimental diabetic nephropathy. *Clin Transl Med*. 2021;11(2):e305.
- Menini S, Iacobini C, Vitale M, Pesce C, Pugliese G. Diabetes and Pancreatic Cancer-A Dangerous Liaison Relying on Carbonyl Stress. *Cancers (Basel)*. 2021;13(2):313. IF 6.126
- Blasetti Fantauzzi C, Iacobini C, Menini S, Vitale M, Sorice GP, Mezza T, Cinti S, Giaccari A, Pugliese G. Galectin-3 gene deletion results in defective adipose tissue maturation and impaired insulin sensitivity and glucose homeostasis. *Sci Rep*. 2020;10:20070.
- Menini S, Iacobini C, de Latouliere L, Manni I, Vitale M, Plozzi E, Pesce C, Cappello P, Novelli F, Piaggio G, Pugliese G. Diabetes promotes invasive pancreatic cancer by increasing systemic and tumour carbonyl stress in Kras G12D/+ mice. *J Exp Clin Cancer Res*. 2020;39:152. IF 7.068
- Menini S, Iacobini C, Vitale M, Pugliese G. The Inflammasome in Chronic Complications of Diabetes and Related Metabolic Disorders. *Cells*. 2020 Jul 30;9(8):1812.
- Menini S, Iacobini C, Fantauzzi CB, Pugliese G. L-carnosine and its Derivatives as New Therapeutic Agents for the Prevention and Treatment of Vascular Complications of Diabetes. *Curr Med Chem*. 2020;27:1744-1763.

Date, 22-07-2024