

## Enzo Nisoli - Biographical Sketch

Born in Bergamo (Italy), July 11<sup>th</sup>, 1961

### PRESENT POSITION

Associate Professor of Pharmacology  
Dept of Medical Biotechnology and Translational Medicine (BIOMETRA)  
University of Milan  
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### EDUCATION AND TRAINING

2014 Academic qualification for full professorship, Pharmacology and Endocrinology/Nutrition Science  
1997 Specialization degree 50/50 cum laude, Biochemistry and Clinical Chemistry  
1994 Ph.D. degree with honors, Pharmacotherapy  
1988 M.D. degree 110/110 cum laude, Brescia University, Medicine/Pharmacology

### POSITIONS AND EMPLOYMENT

2001-present Associate Professor of Pharmacology, School of Medicine, University of Milan  
1999-2001 Assistant Professor of Pharmacology, School of Medicine, University of Milan  
1994-1999 Postdoctoral fellow, Luigi Sacco Hospital, University of Milan  
1991 Guest researcher, Pharmacological Research Dept, F. Hoffman-LaRoche Ltd, Basel, Switzerland  
1988-1994 Research fellow, Pharmacology, School of Medicine, University of Brescia

### MAIN INSTITUTIONAL ROLES

2014-present Honorary member, international advisory board, Japanese Society for Amino Acid Sciences  
2012-2014 President of the Italian Obesity Society  
2010-2012 President-elect of the Italian Obesity Society  
2001-2003 Vice-Director, Department of Preclinical Sciences - LITA Vialba, Milan University  
2000-present CME Referee of the Italian Ministry of Health, section of Pharmacology and Toxicology  
2001-2007 Consultant of the Agency for Advertising Self-regulation – Foods and supplements section  
1997-present Member of the Steering Committee, Center of Study on Obesity, Milan University

### OTHER EXPERIENCE

Member of the Editorial board, Cent Nerv Syst Agents Med Chem; J Endocrinol Invest  
Reviewer for more than 60 international high-impact science Journals  
Grant Reviewer for national and international Agencies from diverse EU countries, USA, Hong Kong, Israel  
Co-Organizer, Italian Obesity Society National Meeting 2006; European Congress on Obesity 2009  
Organizer and President, Italian Obesity Society National Meeting 2014  
Invited speaker at more than 80 scientific meetings or CME courses, including 10 plenary lectures

### HONORS

2010 Nutrition & Santé Science Award for Obesity Research

### GRANTS AND RESEARCH SUPPORT

Project Coordinator, Italian Ministry of Research PRIN 2003, 2005, 2007, 2009  
Principal Investigator, CARIPLO Foundation 2014; Italian Ministry of Research PRIN 2001, 2002; Italian Ministry of Health 2001; Research contract AstraZeneca UK, 2003-2005

## PROFESSIONAL MEMBERSHIPS

Italian Society of Pharmacology; Italian Society of Obesity; European Association for the Study of Obesity

## MAIN RESEARCH FIELDS

Pharmacology, obesity and disorders of metabolism, nutrition science, aging, healthspan extension, mitochondrial bioenergetics.

## SCIENTIFIC PUBLICATIONS

Enzo Nisoli is author of about 100 articles in peer-reviewed international Journals. Total Impact factor: 545,96 (ISI Journal citation reports®). Sum of the times cited: 3929 citations, h-index 31, ISI Web of Science®; 4049 citations, h-index 30, Scopus® Elsevier BV ; 5356 citations, h-index 35, Google Scholar; databases accessed on February 21<sup>st</sup> 2014.

## Selected publications

Trevellin E, Scorzeto M, Olivieri M, Granzotto M, Valerio A, Tedesco L, Fabris R, Serra R, Quarta M, Reggiani C, Nisoli E, Vettor R. Exercise training induces mitochondrial biogenesis and glucose uptake in subcutaneous adipose tissue through eNOS-dependent mechanisms. *Diabetes* 2014 Mar 12 [Epub ahead of print]

Vettor R, Valerio A, Ragni M, Trevellin E, Granzotto M, Olivieri M, Tedesco L, Ruocco C, Fossati A, Fabris R, Serra R, Carruba MO, Nisoli E. Exercise training boosts eNOS-dependent mitochondrial biogenesis in mouse heart: role in adaptation of glucose metabolism. *Am J Physiol Endocrinol Metab* 306: E519-26, 2014

Tedesco L, Valerio A, Dossena M, Cardile A, Ragni M, Pagano C, Pagotto U, Carruba MO, Vettor R, Nisoli E. Cannabinoid receptor stimulation impairs mitochondrial biogenesis in mouse white adipose tissue, muscle, and liver: the role of eNOS, p38 MAPK, and AMPK pathways. *Diabetes* 59: 2826-36, 2010

D'Antona G, Ragni M, Cardile A, Tedesco L, Dossena M, Bruttini F, Caliaro F, Corsetti G, Bottinelli R, Carruba MO, Valerio A, Nisoli E. Branched-chain amino acid supplementation promotes survival and supports cardiac and skeletal muscle mitochondrial biogenesis in middle-aged mice. *Cell Metab* 12: 362-72, 2010

Tedesco L, Valerio A, Cervino C, Cardile A, Pagano C, Vettor R, Pasquali R, Carruba MO, Marsicano G, Lutz B, Pagotto U, Nisoli E. Cannabinoid type 1 receptor blockade promotes mitochondrial biogenesis through endothelial nitric oxide synthase expression in white adipocytes. *Diabetes* 57: 2028-36, 2008

Valerio A, Cardile A, Cozzi V, Bracale R, Tedesco L, Pisconti A, Palomba L, Cantoni O, Clementi E, Moncada S, Carruba MO, Nisoli E. TNF-alpha downregulates eNOS expression and mitochondrial biogenesis in fat and muscle of obese rodents. *J Clin Invest* 116: 2791-8, 2006

Nisoli E, Tonello C, Cardile A, Cozzi V, Bracale R, Tedesco L, Falcone S, Valerio A, Cantoni O, Clementi E, Moncada S, Carruba MO. Calorie restriction promotes mitochondrial biogenesis by inducing the expression of eNOS. *Science* 310: 314-7, 2005

Nisoli E, Falcone S, Tonello C, Cozzi V, Palomba L, Fiorani M, Pisconti A, Brunelli S, Cardile A, Francolini M, Cantoni O, Carruba MO, Moncada S, Clementi E. Mitochondrial biogenesis by NO yields functionally active mitochondria in mammals. *Proc Natl Acad Sci USA* 101: 16507-12, 2004

Nisoli E, Clementi E, Paolucci C, Cozzi V, Tonello C, Sciorati C, Bracale R, Valerio A, Francolini M, Moncada S, Carruba MO. Mitochondrial biogenesis in mammals: the role of endogenous nitric oxide. *Science* 299: 896-9, 2003