

**Personal data**

Valeria Tiranti

**Degree**

PhD

**Birthdate**

01/02/1964

**Place of birth**

Milan

**Education and training**

High School Diploma (Liceo Scientifico) Milano 1983

Internship in Biology at the Institute of Nuclear Physics, University' of Milan, 1987-1989

University of Milan – Biology degree cum laude: 20 October 1989

University of Milan – Specialization in Medical Genetics cum laude:, 20 July 2001.

**Employment and research experience**

1989-1991 Post-doctoral fellow, Department of Biochemistry and Genetics, Istituto Neurologico “C. Besta”, Milano.

1992-1997 Senior fellowship as Research Associate at Istituto Neurologico “C. Besta”, Milano.

1997-1998 Senior Research with one year permanent position

1999-2002 Senior fellowship as Research Associate with a grant of the Health Ministry, Istituto Neurologico “C. Besta”

2002-present Research Associate Professor (Dirigente Biologo), Unit of Molecular Neurogenetics, IRCCS Fondazione Istituto Neurologico “C Besta”

**Personal Statement**

I (Valeria Tiranti) have a long-standing expertise in mitochondrial and metabolic disorders, including identification of disease genes, biochemical evaluation of the respiratory chain activities, molecular and cellular biology, and identification of pathogenetic mechanisms of diseases. My group performed the characterization of different mouse models and attempted pharmacological treatments in some of them. Recently we started a series of experiments devoted to the generation of neurons by direct reprogramming of fibroblasts derived from patients affected by neurodegenerative diseases associated with mitochondrial dysfunctions. Moreover, we are generating induced pluripotent stem cells (iPSCs) from fibroblasts of patients affected by neurodegenerative diseases and genetic optic atrophy.

**Research Management**

2005-2008 MITOCIRCLE, FP6 INTEGRATED PROJECT, € 289000

2009-2011 Grant from AISNAF Foundation (Associazione Italiana Sindromi Neurodegenerative da Accumulo di Ferro), € 49000

2010-2011 Grant from Mariani Foundation, €125000

2011-2014 Telethon Grant, € 120000

2011-2015 TIRCON, FP7 project, € 379200

2014-2017 Marie Curie Initial Training Networks (ITN) Call: FP7-PEOPLE-2012-ITN

Mitochondrial European Educational Training MEET, € 225135

**Scientific Experience**

-Molecular and cellular Biology

- Biochemistry and Genetics of mitochondrial disorders and in general of defects of bioenergetic metabolism
- Biochemistry and Genetics of neurodegenerative disorders
- Animal models

### **Teaching Experience**

- 1991 First course of Molecular Biology in Neurology, Istituto Neurologico “C. Besta”
- 2004 Teaching Course of MitEuro Network “Somatic cell genetic methods in mt disease analysis”, Milan, 24-28 May
- 2003-present Tutor of the DIMET PhD program (Translational and Molecular Medicine) at the University of Milano Bicocca, Milan Italy

### **Invited Speakers at several National and International meeting**

- 2008 International Symposium on "Mitochondrial Physiology and Pathology", IUBMB Symposium S1/2008, Bari, Italy
- 2008 Course of the Italian Society of Human Genetics (SIGU), on Functional Characterization of genetic variants, Genova, Italy
- 2009 Faculty Member of the Embo Lecture Course in Mitochondrial Medicine: from genetics to biological mechanisms and beyond, Bologna, Italy
- 2009 34th FEBS Congress, Life's Molecular Interactions, Prague, Czech Republic
- 2009 ERNDIM Meeting, Basel, Switzerland
- 2009 The 9th Annual Conference of the Japanese Society of Mitochondrial Research and Medicine (J-mit), Tokyo, Japan.
- 2013 Mitochondrial Disease: translating biology into new treatments, Cambridge, UK
- 2013 Diagnostic approach and classification of IEM affecting the synthesis and catabolism of complex lipids. Paris, France.
- 2014 Coenzyme A and its Derivatives in Cellular Metabolism and Disease, London, UK
- 2014 Euromit, Tampere, Finland.
- 2015 VI Meeting on the MOLECULAR MECHANISM OF NEURODEGENERATION, Milan, Italy
- 2015 Recordati Rare Diseases Foundation meeting on “Classification and diagnostic approach of IEN affecting the synthesis and remodelling of complex lipids”, Paris, France
- 2015 12th International Congress of the Polish Neuroscience Society, Gdansk, Poland
- 2015 EMBO workshop, Mitochondrial DNA and Neurodegeneration, Sitges, Spain
- October 1st 2015, Turin, The Aging Brain: Cellular Mechanisms Interfacing Human Pathology.
- October 5th 2015, Rome, I seminari del Mendel, IRCCS Mendel.
- 2015, AISNAF Family Meeting, Bologna.
- 2015, Turin, II Update course on movement disorders: “Update on movement disorders in children”.

### **Award**

2014 National Academic Qualification as Associate Professor for **Applied Biology**

### **Supervision of graduate students and postdoctoral fellows**

- 7 Graduate students, Faculty of Science, University of Milan and of Milano-Bicocca
- 4 PhD students School of Medicine/Faculty of Science, University of Milano-Bicocca, Italy

-2011-present: 5 Post-docs; 3 PhD students; 1 Graduate student, 1MSc.

### **Membership and Committee**

-Scientific Board of the Foundation Neurological Institute C. Besta

### **Organization of scientific meetings**

-27-29 May 2014, Co-Organizers of the Course: “**Experimental models in translational medicine: how to produce and how to use them**”. University of Milano Bicocca,

-2014, Scientific Organizing Committee, **3rd Joint conference on NA and NBIA**, Stresa, Italy

-17-19 November 2014, Scientific Organizer of the Theoretical and Practical Course within the European project Marie Curie Training, MEET, on: “**In vitro/in vivo approaches to study mitochondrial (dys)function: cybrids creation and mitochondrial import assays**”, Foundation Neurological Institute C. Besta.

### **Honors**

-"Best Presentation" award at the **4° Meeting of the European Neurological Society**, June 1995

-Young Researcher Award at the **1st National Congress of the Italian Society of Human Genetics (SIGU)**, Spoleto 1998.

-Honourable Mention San Raffaele H Research for the paper published on Am J Hum Genet “**Ethylmalonic encephalopathy is caused by mutations in ETHE1, a gene encoding a mitochondrial matrix protein**”, April 2004.

### **Scientific Production**

Valeria Tiranti is Author of 94 publications indexed in PubMed and 3 chapters in scientific books. The h index, calculated using the ISI Web of Science database, is 35.