

KATIA AQUILANO, PhD
Curriculum vitae

Katia Aquilano was born in Rome on August 1st 1974.

1998-1999: Student in the Biochemistry Laboratory at University of Rome “Tor Vergata”;

1999: Biological Sciences graduated at University of Rome “Tor Vergata” (110/110 cum laude);

1999-2002: PhD student in Molecular and Cellular Biology at the Department of Biology-University of Rome “Tor Vergata”;

2001: Fellowship at the IABBAM Institute-CNR (Naples, Italy).

2003: PhD degree in Molecular and Cellular Biology;

2003-2006: Post-doctoral position in Biochemistry (SSD BIO/10) at the Department of Biology-University of Rome Tor Vergata.

2006-2007: Junior Researcher at IRCCS San Raffaele “La Pisana”, Rome, Italy.

2007-2008: Researcher position (SSD BIO/10) at the Biochemistry Institute of the University of Urbino “Carlo Bò”.

2009-: Researcher (SSD/MED49) at the Department of Biology of the University of Rome Tor Vergata.

2014- : Group Leader of Biochemistry of Ageing Laboratory – IRCCS San Raffaele “La Pisana”, Rome, Italy.

CURRENT SCIENTIFIC ACTIVITY

She studies tissue metabolic adaptations to environmental factors such as cold and different dietary patterns (e.g. low protein-high carbohydrate diet, high fat diet, calorie restriction, fasting). She aims at finding novel nutritional approaches that are effective in improving body metabolism and increasing energy expenditure to overcome age-related metabolic diseases such as obesity and diabetes.

TEACHING ACTIVITY

1999-2011: Collaboration in the teaching activity (lessons, seminars, laboratory lessons) in the following courses: 1) Redox Signaling; 2) Proteins and Metabolism; 3) Biochemistry; 4) Biochemistry and Biophysics (Department of Biology, University of Rome Tor Vergata); 5) Applied Biochemistry (University G. D’Annunzio, Chieti).

2011- : Human Nutrition and Dietetics/Faculty of Medicine and Surgery/University of Rome “Tor Vergata”, Rome, Italy.

2014- : Hospital and Community Catering/Faculty of Medicine and Surgery/University of Rome “Tor Vergata”, Rome, Italy;

2015- : Biochemistry and Evolution of Human Nutrition/Dept. Biology/University of Rome “Tor Vergata”, Rome, Italy.

2015- ; Metabolic Targets of Cancer/second-level Professional Master's Programme in Management of clinical experimentation in haematology and oncology”/University of Rome “Tor Vergata”/GIMEMA.

OTHER ACTIVITIES

- Associate Editor for *Frontiers in Nutrition*, *Frontiers in Genetics*
- Academic Editor for *International Journal of Cell Biology*.
- Section Editor for *Reviews in Gastroenterology, Hepatology and Nutrition*.
- Review Editor for *Frontiers in Physiology*
- Reviewer for scientific international journals such as *Scientific Reports*, *Free Radical Research*, *Food Chemistry*, *Journal of Neuroinflammation*, *Neural Plasticity*, *Neurochemistry International*, *Oxidative medicine and Longevity*, *Recent Advances in DNA and Gene Sequences*, *Frontiers in Cellular Neuroscience*, *BBA-General Subject*, *Biochemistry & Biophysics Reports*, *Cell Death & Disease*, *Neuroscience*, *American Journal of Physiology*, *Endocrinology and Metabolism*.
- Grant reviewer for Italian Ministry of University and Research.
- Task Force Member (*Validation Team*) of the Halifax Project “*Getting to Know Cancer*”.

SOCIETY MEMBERSHIPS

Italian Society of Biochemistry and Molecular Biology (SIBB)

Italian Society of Human Nutrition (SINU)

Italian Association of Cell Culture (AICC)

SCIENTIFIC PRODUCTIVITY AND IMPACT

She is author of 60 publications published in “peer-reviewed” international journals, 3 book chapters, 31 publications in international congress proceedings.

She has an h index of 22 (Scopus, ISI Web Science).

GRANTS (ongoing)

1. Young Researcher Grant 2012 (GR-2011-02348047) - Dissecting the role of peroxisome proliferator-activated receptor gamma coactivator-1alpha (PGC-1a) and adipose triglyceride lipase (ATGL) in Parkinson's disease – Italian Ministry of Health. Role: PI (**326.909 Euro**).
2. PRIN 2012 (20125S38FA) – “Alteration of cell differentiation and mitochondrial biogenesis in age-related disease. Dysregulation of NOX-Nrf2-Sirt1/PGC-1alpha pathway” – MIUR. Role: Head of Unit (**157.143 Euro**).
3. Uncovering Excellence (http://www.uniroma2.it/ammin/cda/2015/24-02-15/09_1.pdf) – “Low-protein, high-carbohydrate (LPHC) diet as strategy to prevent metabolic diseases”-University of Rome “Tor Vergata”. Role: PI (**24.500 Euro**)
4. Seed Money Grant (<https://www.ataxia.org/research/studies/2016/SM/naf-research-aquilano.aspx>) - Study of the role of lipid dysmetabolism in the pathogenesis of Friedreich's ataxia - NATIONAL ATAXIA FOUNDATION (NAF) – Role: PI (**15.000 USD**)
5. DOI: 10.18258/6552 - Brrr...It's Cold! Can Blood Nanovesicles Encourage Heat Production and Help Fight Obesity? - MICRORYZA, US. Role: Participant (**3000 USD**)
6. 2016-R03 - Effects of nut-derived miRNAs on inflammatory and metabolic profile of fat cells (miRNUTs) - INC (International Nut and Dried Fruit Council). Role: Participant (**37000 Euro**).