Curriculum vitae
ANTONIO TORRONI

ACADEMIC POSITION:
Head of the Department of Biology and Biotechnology "L. Spallanzani" and Professor of Genetics, University of Pavia, Via Ferrata 9, 27100 Pavia, Italy. Tel. +39 0382-985563; e-mail: antonio.torroni@unipv.it

PROFESSIONAL EXPERIENCE:
October 2024 – present: Member of the Academic Senate, University di Pavia, Italy.
October 2024 – present: Head of the Department of Biology and Biotechnology "L. Spallanzani", Univ. of Pavia, Italy.
2000 – present: Full Professor of Genetics (BIOS-14/A - ex BIO/18), Department of Biology and Biotechnology "L. Spallanzani", Univ. of Pavia
2023 - present: Member of the Committee for the Italian National Scientific Qualification (ASN 2023-2025) for the Sector 05/I1- Genetics.
2024: Council Member of the PhD Higher Education School (SAFD) for the Life Science Area, University of Pavia.
2022 – 2024: Member of the Discipline Committee of the University of Pavia.
2018 – 2020: President of the Italian Genetics Association (http://www.associazionegeneticaitaliana.it/).
2011 – 2020: Head of the PhD Program in Genetics, Molecular and Cellular Biology, Univ. of Pavia.
2002 – 2011: Head of the PhD Program in Genetic and Biomolecular Sciences, Univ. of Pavia.
2014 – 2019: Visiting Professor, School of Applied Sciences, University of Huddersfield, Queensgate, Huddersfield, UK.
2015 – 2019: Co-coordinator of the University of Pavia strategic theme "Towards a governance model for international migration: an interdisciplinary and diachronic perspective" (MIGRAT.IN.G).
2010 – 2013: Vice-Chancellor for Research, Univ. of Pavia, Italy.
2009 – 2013: Coordinator of the "Research Group", Univ. of Pavia, Italy.
2006 – 2011: Director of the PhD School in Life Science "Camillo Golgi", Univ. of Pavia, Italy.
1998 – 2000: Associate Professor of Genetics, Institute of Biological Chemistry, Univ. of Urbino, Italy.
1994 – 1998: Ricercatore (Assistant Professor of Genetics), Department of Genetics and Molecular Biology, Rome University "La Sapienza", Italy.
1990 – 1994: Assistant Professor, Department of Genetics and Molecular Medicine, Emory University School of Medicine, Atlanta, Georgia, U.S.A.
1991: "Professore a contratto" of Genetics at the University of Calabria (Arcavacata, Cosenza), Italy.
1988 – 1990: Postdoctoral Scholar (Prof. Douglas C. Wallace's lab), Center for Genetics and Molecular Medicine, Emory University School of Medicine, Atlanta, Georgia, U.S.A.
1988: PhD degree in Genetic Sciences (Genetics and Molecular Biology), Univ. of Pavia, Italy.
1984: "Laurea" with honors in Biological Sciences, Rome University "La Sapienza", Italy.

ADDITIONAL INFORMATION:
- Member of the Scientific Committee of the Foundation "A. Buzzati-Traverso" (since 2017).
- Member of the Executive Committee of the "Associazione Genetica Italiana - AGI" (years 2000 and 2001 and again from 2016 to 2017).
- Member of the "Nucleo Direttivo" of INROAD (INstitutional hoRizOn 2020 Committee At UNIPV) (from 2017 to 2019).
- Member of the Editorial Board of PaleoAmerica (ISSN: 2055-5563) (since 2015).
- Member of the Italian Genetics Association (AGI) (since 1994).
- From 2012 to 2016: Member of the International Advisory Board of the Wellcome Trust Centre for Mitochondrial Research, Newcastle, UK.
- From 2002 to 2016: Member of the International Advisory Board of the Estonian Biocentre, Tartu, Estonia.
- From 1991 to 1996: Member of the "Mitochondrial DNA Committee", whose report was published every year in the "the Human Genome Mapping" and is now available at: http://www.mitomap.org/
- In 1988 he contributed to the translation in Italian language of "Human Genetics" by F. Vogel and A.G. Motulsky (Mc-Graw-Hill Libri Italia).
- He has kept Seminars, Classes and/or Courses at numerous Universities including: Bordeaux and Lyon (France), Hamburg and Dresden (Germany), Emory, Georgia Tech, Yale, Cold Spring Harbor, Salt Lake City (U.S.), Gran Canaria, Barcelona (Spain), Kyoto (Japan), Budapest (Hungary), Helsinki (Finland), Cambridge, Huddersfield (U.K.), Tartu (Estonia), Brno (Czech Republic), Zagreb (Croatia), Tehran and Isfahan (Iran), Porto (Portugal), Kumming and Shanghai (China).

RESEARCH TOPICS:
The main general research objective is the reconstruction, based on genetic and genomic data, of the evolutionary history and demographic events that have involved present and past human populations (at both micro and macro-geographic levels) and

some animals (especially domestic animals and those living in close contact with our species). Genetic findings can be easily employed also in multidisciplinary studies involving apparently far away scientific and cultural contexts, from forensics to history, archaeology, linguistics, anthropology, education and public health.
The genetic systems under study are the autosomes as well as the uniparentally transmitted genetic systems (mitochondrial DNA and the male-specific portion of the Y chromosome). The latter two are not reshuffled by recombination and thus constitute a molecular archive of the history and migration of females and males, respectively, who transmitted them to subsequent generations. Some of the research activities has also implications in biomedicine. Indeed, the mitogenome plays an important role in bioenergetics, thus its sequence variation is involved in diseases, aging, athletic performance as well as environmental adaptation.

BIBLIOMETRICS (April 2026):
A total of 221 papers (peer-reviewed) in international journals. Orcid ID: 0000-0002-4163-4478
H-index (Web of Science) = 78 (> 22.500 citations);
H-index (Scopus) = 80 (> 24.000 citations);
H-index (Google Scholar) = 98 (> 39.500 citations).

EVALUATION ACTIVITY:

- In 2007 he participated as a reviewer in the evaluation of the large-scale integrating projects under the topics: Health-2007 (2.1.1-1, 2.1.1-2, 2.1.1-3, 2.1.1-4) in the Seventh Framework Programme (FP7) of the European Union.
- In 2003 and 2004 he reviewed STREP/CA grant applications under the topic "Life Sciences, genomics and biotechonology for health" in the Sixth Framework Programme (FP6) of the European Union.
- Reviewer for grant applications presented to: the National Science Foundation (U.S.), Wellcome Trust (U.K.), Governo della Catalogna, the Portuguese Foundation for Science and Technology, the Research Council of the University of Oulu (Finland), the Marsden Fund (New Zeland), the Grant Agency of the Czech Republic, the Israel Science Foundation, the British Academy (U.K.), the UK India Education and Research Initiative, the National Programme of Cooperative Research from the Spanish Ministry of Health and Consumer's Affairs (Spain), the Pasteur Institute (France), the Leverhulme Trust (U.K.), the Natural Science and Engineering Research Council of Canada, the Italian Ministry of Education, University and Research, the Latvian Science Council.
- Reviewer for numerous international journals including: *Science, Proceeding National Academy Science USA, American Journal of Human Genetics, Trends in Genetics, Human Molecular Genetics, European Journal of Human Genetics, Human Genetics, American Journal of Medical Genetics, Journal of Medical Genetics, American Journal of Physical Anthropology, Genetics, Human Genetics, Genome Research, Genomics, Annals of Human Genetics, Human Biology, BMC Genetics, Gene Geography, Nucleic Acids Research, PLoS Medicine, Electrophoresis, Molecular Biology and Evolution, IUBMB Life, Molecular Genetics and Metabolism, BMC Evolutionary Biology, Fertility and Sterility, Annals of Neurology, PLoS One, PLoS Biology, Human Mutation, Current Biology, BMC Cancer, Scientific Reports, Gene, Nature Communications, National Science Review, Genome Biology, Molecular Genetics and Genomics.*

HONORS:

- 1994: Gabriel W. Lasker Award 1992 for the paper "*American Indian prehistory as written in the mitochondrial DNA: a review*". Human Biology 64:403-416 (1992).
- 1991: Scienza, Tecnologia e Cultura per l'Uomo e L'Ambiente, Giuseppe Montalenti Award for the paper "*Native American mitochondrial DNA analysis indicates that the Amerind and the Nadene populations were founded by two independent migrations*". Genetics 130:153-162 (1992).
- 1985. Winner of the Prize "Comitato Sanremo Genetica Umana". This prize sponsored his participation at the researches carried out in the Dept. of Genetics and Microbiology, Pavia University, Italy.

April 1, 2026