

MAURO TORTI
Full Professor of Biochemistry
Department of Biology and Biotechnology
University of Pavia, Italy
Curriculum Vitae

Personal Data

Name: Mauro Torti
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Education

1986: Degree in Biology (110/110 *cum laude*), University of Pavia, Italy
1990: Ph.D in Biochemistry, University of Pavia, Italy
1997: Specialisation in Clinical Biochemistry (50/50 *cum laude*), University of Pavia, Italy

Postdoctoral training and fellowship appointments

1991-1992: Post-doctoral fellow. Division Cell Biology, Burroughs Wellcome Co., Research Triangle Park, NC, USA.
1993-1996: Post-doctoral fellow. Department of Biochemistry, University of Pavia, Italy
1996: Visiting scientist, Case Western Reserve University, Cleveland OH, USA
1997-1998: Visiting Scientist, INSERM U326, Hopital Purpan, Toulouse, France

Academic appointments

1998-2000: Research Assistant, Department of Biochemistry, University of Pavia, Italy
2000-2004: Associate Professor of Biochemistry, University of Pavia, Italy
2005-present: Full Professor of Biochemistry, University of Pavia, Italy

Current teaching activities at the University of Pavia

2011-present: Biochemistry of Nutrients; Specialization Course in Human Nutrition, 3 ETCS (24 hours)
2019-present: Biochemistry; first cycle Degree course in Biology (B.Sc. equivalent), class DM 270, 2nd year, 9 ETCS (72 hours)
2022-present: Biochemistry; first cycle Degree course in Biotechnology (B.Sc. equivalent), class DM 270, 2nd year, 9 ETCS (72 hours)

Supervisor of students' laboratory activities and experimental thesis at IUSS and University of Pavia

Supervisor and tutor of 85 experimental thesis for B.Sc. degree, 26 experimental thesis for M.Sc. degree, 23 thesis for Specialization School in Human Nutrition, 22 thesis for Ph.D. School programmes

Current Academic services

- Member, Teaching Board of the PhD Programme in Biomolecular Sciences and Biotechnology, IUSS School, Pavia (Scuola Universitaria Superiore, Pavia)
- Member, Organizing Committee for the Experimental Biology Laboratory, First Degree Programme (Bachelor) on Biology, University of Pavia
- Member, Scientific Committee of the Interdepartmental Center for Studies on Higher Educational Systems (Centro di Ricerca Interdipartimentale di Studi sui Sistemi di Istruzione Superiore), University of Pavia
- Member, Committee for the organization of the II level Master Course on Human Nutrition, University of Pavia.

Editorial Appointments

2003-2010: Member Editorial Board, The Biochemical Journal
2008-2015: Member Editorial Board, Journal of Thrombosis and Haemostasis
2008-present: Member Editorial Board, Thrombosis and Haemostasis

Ad hoc reviewer

Arteriosclerosis Thrombosis and Vascular Biology, Blood, Blood Advances, British Journal of Hematology, British Journal of Pharmacology, Cancers, Cellular Signalling, Circulation Research, Clinical Science, European Journal of Biochemistry/FEBS Journal, Haematologica/The Haematology Journal, International Journal of Molecular Sciences, Journal of Signal Transduction, Journal of Proteomics, Journal of Thrombosis and Haemostasis, Nature, Nature Chemical Biology, Nature Communications, Planta Medica, Platelets, PlosOne, The Journal of Biological Chemistry, Thrombosis and Haemostasis, Thrombosis Research, Scientific Reports, Science Signaling

Grant reviewer

MIUR, Italy, Regione Puglia, Italy Regione Piemonte, Italy; Wellcome Trust, UK; Biotechnology and Biological Sciences Research Council, (BBSRC), UK; INSERM, France; ANR (Agence Nationale de la Recherche), France; Austrian Science Fund (FWF), Austria. Medical Research Council, United Kingdom. National science Center, Poland

Evaluator of the research activity

2013: Member of the Scientific Advisory Committee for the INSERM U1048 Institute of Metabolic and Cardiovascular Disease, Toulouse, France. Visit on 26-27 September 2013
2014: Member of the Evaluation Committee nominated by AERES (Agence d’Evaluation de la Recherche et des Etablissements d’Enseignement Supérieur), France for the Institute of Metabolic and Cardiovascular Disease, Toulouse, France. Visit on 3-5 December 2014
2017: Evaluator of the final report of the research activity of the winners of the programme “Future in Research” by ATRI, regione Puglia, for two project in the area: Biochemistry, BIO/10.
2018-2021: Member and President of the commission for the national scientific habilitation for academic position to associate and full professor (ASN) for the thematic area 05/E1- Biochemistry
2020-2022: Member of the team of reviewers for the panel GEV5 (Biological Sciences) for the evaluation of the Quality of the Research (VQR) promoted by ANVUR and Coordinator of the subGEV3 (including biochemistry, molecular biology and clinical biochemistry)

Evaluator of career progression

Board of examiners (Italy, UK and France) for: admission to PhD School programme (5); awarding PhD degree (11), temporary or permanent positions at Universities or Research Institutes (23)

Membership in Professional Societies

The Italian Society on Biochemistry and Molecular Biology (SIB); The European Platelet Group (EUPLAN); The Biochemical Society; The International Society on Thrombosis and Haemostasis (ISTH); The American Society of Hematology (ASH); The Platelet Society

Activities for Scientific Societies

2021-2022: Member (elected) of the board of the Italian Full Professor of Biochemistry
2021-present: Member (elected) of the Science & Society Committee of the Federation of European Biochemical Societies (FEBS)
2022-present: Member (appointed) as FEBS representative at the European platform ISE (Initiative for Science Europe)
2022-present: Member (elected) of the board of the Italian Full Professor of Biochemistry with appointment as national coordinator of the board

Meeting organization

- Member of the organizing committee of the 1° (2012, Maastricht), 2° (2014, Le Bischoffshausen), 3° (2016, Bad Homburg), and 4° (2016, Brugge) Euplan Meeting, The Netherlands
- Co-organizer, 1th Italy-UK Platelet meeting, Bath, UK (2017)
- Member of scientific organizing committee of the XXVIII ISTH meeting (2020, telematic meeting due to the Covid-19 pandemic)
- Co-organizer, 5° Euplan Meeting (2022, Milan)

- Organizer of the special event “Science in the Street” by the FEBS Science & Society Committee at the 48th FEBS meeting (2024, Milan)

Research grants

University of Pavia; Italian Ministry for Education, University and Research; Italian Ministry of Health; Telethon Foundation; Cariplo Foundation

Research interests

Research activity encompasses fundamental aspects of transmembrane signaling in human platelets, including small GTP-binding proteins, tyrosine kinases and adhesion receptors in the context of haemostasis thrombosis, cancer, neurodegenerative diseases and immunity.

Specific area of interest include:

- Mechanisms of blood platelet aggregation
- Regulation of platelet cytoskeleton remodelling
- Signal transduction through platelet integrins $\alpha 2\beta 1$ and $\alpha I\text{Ib}\beta 3$
- Role of the purinergic receptor P2Y₁₂ in regulation of platelet function
- Role of ITAM-bearing Fc γ RIIA immunoreceptor in platelet activation
- Mechanisms of platelet activation through the GPIb-IX-V complex
- Mechanisms regulating inositol phospholipids metabolizing enzymes phospholipase C and phosphatidylinositol 3-kinase
- Protein-tyrosine kinases and phosphatases in platelet function
- Function and regulation of the ras-related small GTPases Rap1 and Rap2
- Analysis of the biochemical abnormalities of platelets and megakaryocytes in familiar macrothrombocytopenic syndromes
- Study of the metabolism and function of amyloid precursor protein in platelets
- Investigation on the potential thrombotic effects of structured nanoparticles
- Functional interaction of platelets and platelet-derived microparticles with cancer cells
- Role of platelets in thromboinflammation and immunity

The research activity is documented by more almost 120 papers published on peer-reviewed international journals, 10 chapters in thematic books, and by several presentations to national and international meetings