

## ENGLISH

### Gianni Francesco Guidetti- *Curriculum vitae*

#### PERSONAL INFORMATION

Name: Gianni Francesco Guidetti  
Date of birth: 30 March 1976  
Nationality: Italian  
Address: Department of Biology and Biotechnology  
Laboratory of Platelet Biochemistry  
Cascina Cravino - Via Bassi 21, 27100, Pavia, ITALIA

#### Training and position

- November 2020-Today: Associate Professor; Department of Biology and Biotechnology, University of Pavia
- January 2009-October 2020: Assistant Professor; Department of Biology and Biotechnology, University of Pavia
- January 2008-December 2008: Post-doc fellowship; Department of Biochemistry, University of Pavia
- January 2007-December 2007: Research fellowship (Progetto Globale Ingenio, Regione Lombardia); Department of Biochemistry, University of Pavia
- July 2004-December 2006: Post-doc fellowship ; Department of Biochemistry, University of Pavia (PhD graduation: 01 March 2004) University of Pavia
- October 2002-March 2003: Visiting PhD student; Department of Physiological Chemistry, University Medical Centre (UMC) Utrecht, The Netherlands
- November 2000-January 2004: SAFI (Scuola Avanzata di Formazione Integrata) Institute for Advanced Study (IUSS) Pavia
- November 2000-March 2004: PhD in Biochemistry and Molecular Physiology of Cellular Membrane
- October 1995-July 2000: Degree in Biological Sciences (110/110 cum laude) University of Pavia

#### Scientific activities and research interests

Biochemical mechanism of signal transduction downstream of integrins, GPCRs and CTLRs. Roles and regulation of Ras-family GTP-binding protein. Effects of nanomaterials and nanoparticles on platelet function. Development and characterization of boron-containing compounds and nanoparticles for Boron Neutron Capture Therapy (BNCT). Platelet-tumor cell interaction and role of platelets and platelet-derived microparticles (PMPs) in tumor growth and metastasis.

*Technical skills:* Purification and manipulation of blood platelets, cell fractioning, electrophoresis, immunoblotting, chromatography, analysis of platelet adhesion under static conditions and under flow, bright field and fluorescent microscopy, flow-cytometry, cancer cells culture and transfection. Molecular biology techniques, PCR, cloning, protein expression and purification, mRNA extraction and analysis. Manipulation of nanomaterials and characterization of nanoparticle hemocompatibility. Studies on animal models.

#### Services

Reviewer for the following journals: Hematologica, Journal of Thrombosis and Haemostasis, Scientific Reports, Nanomedicine: Nanotechnology, Biology, and Medicine, Thrombosis and Haemostasis, International Journal of Pharmaceutics, Chemical Biology

and Drug Design, Environmental pollution, Molecular Pharmaceutics, Current Medicinal Chemistry, Journal of Molecular Medicine.

Reviewer of grant proposal for the French funding agency *Agence Nationale de la Recherche* (ANR) and the Croatian Science Foundation (HRZZ, Croatia).

Member of the editorial board of the Science communication journal 'Scienze e Ricerche'.

Member of the jury panel for the 'Premio Nazionale di Divulgazione Scientifica' (Associazione Italiana Libro).

Member of the technical-scientific board of the 'Centro Interdipartimentale di Studi e Ricerche sui Sistemi di Istruzione Superiore' (CIRSSIS)-University of Pavia.

Evaluation and review of PhD thesis (University of Perugia).

Member of the Editorial Board of the Journal of Unexplored Medical Data (JUMD, ISSN 2572-8180)

Member of evaluation committee for the final exam of the PhD course in Biochemistry and Molecular Biology (25-9-2018, University of Siena)

Member of evaluation committee for the final exam of the PhD course in Biomolecular Sciences (19-02-2019, University of Pavia)

### Teaching activity

Laboratory of molecular techniques (Biological Sciences); Laboratory of biochemistry (Biological Sciences); General and applied enzymology (Biotechnology); Biochemistry of macromolecules (Molecular Biology and Genetics); *Methods in biochemistry (Molecular Biology and Genetics)*; Industrial Biochemistry (Biotechnology); Biochemical Methods (Chemistry). I have also provided laboratory training for several PhD and undergraduate students and I supervised the preparation of many experimental thesis. Since 2017 I am member of the faculty of the PhD program in Biomedical Sciences, University of Pavia.

### Main research support

1) MIUR-PRIN 2001: Project title "Modulazione della adesione cellulare: meccanismi molecolari di trasduzione del segnale" (24 months). Role: Co-Investigator

2) MIUR-PRIN 2002: Project title "Ruolo e regolazione delle proteine Rap nell'adesione e migrazione cellulare mediate da integrine" (24 months). Role: Co-Investigator

3) PRIN 2003: Project title "Regolazione delle vie di segnalazione mediate da recettori di adesione" (24 months). Role: Co-Investigator

4) MIUR-PRIN 2006: Project title "Regolazione delle vie di segnalazione mediate da recettori di adesione in cellule ematiche e vascolari" (24 months). Role: Co-Investigator

5) Research fellowship from Regione Lombardia 2006-7 (Progetto Globale Ingenio)

6) MIUR-PRIN 2008: Project title "Regolazione delle vie di segnalazione mediate da recettori di adesione in cellule ematiche e vascolari" (24 months). Unit Coordinator.

7) Fondazione Cariplo 2009: Project title "Development and safety assessment of nanostructured compounds applicable to boron neutron capture therapy" (24 months). Role: Co-Investigator

8) Fondazione Cariplo 2011: Project title "Tyrosine kinases in cardiovascular diseases: unravelling the role of the focal adhesion Pyk2 in platelet function, arterial thrombosis, and abdominal aortic aneurysm" (36 months). Role: Co-Investigator

9) Fondazione Cariplo 2011: Project title "Toxicology of engineered nanoparticles: analysis of their potential thrombotic, inflammatory and haemolytic effects" (24 months). Role: Co-Investigator

10) Fondo per il Finanziamento delle Attività Base di Ricerca (FFABR) 2017.

11) Fondazione Cariplo 2018: Titolo del progetto "Inflammation in the pathophysiology of ageing-related frailty: unraveling the contribution of blood platelets". Role: Co-Investigator.