



Curriculum vitae et studiorum

Flavia Bazzoni, PhD

- Luogo di nascita: Verona, Italia
- Cittadinanza: Italiana
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EDUCAZIONE

- 1980: Diploma di Maturità Classica, Liceo Ginnasio di Stato Scipione Maffei.
- 1987: Laurea in Scienze Biologiche, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università di Padova.
- 1989: Corso di specializzazione post-laurea in “Trasfezione genica in cellule eucariotiche” Scuola Superiore di Oncologia e Scienze Biomediche di Genova.
- 1993: Dottore di Ricerca in Biologia e Patologia Cellulare e Molecolare.

ESPERIENZA PROFESSIONALE

- **1984-87:** Allieva interna, Istituto di Patologia Generale, Università di Verona.
- **1987-88:** Borsa di studio Istituto del Consorzio per lo Sviluppo degli Studi Universitari, Istituto di Patologia Generale, Università di Verona
- **1988:** Visiting scientist nel laboratorio del Prof. Antony Segal, Department of Medicine, University College, Londra, U.K.
- **1990:** Visiting scientist nel laboratorio del Prof. Marco Baggiolini, Theodor Kocher Institute, University of Bern, Svizzera
- **1991-1995:** visiting scientist (1991-1992), post-doctoral fellow (1993-1994) e successivamente research associate (1993-1995) nel laboratorio del Prof. Bruce Beutler, Howard Hughes Medical Institute, U.T. Southwestern Medical Center, Dallas, TX, U.S.
- **1995-2004:** ricercatore di Patologia Generale (MED/04), Istituto di Patologia Generale, Facoltà di Medicina e Chirurgia, Università di Verona
- **2005-Febbraio 2022:** Professore Associato di Patologia Generale (MED/04), Dipartimento di Medicina, Università di Verona
- **Marzo 2022 ad oggi:** Professore Ordinario di Patologia Generale (MED/04), Dipartimento di Medicina, Università di Verona

ATTIVITÀ ACCADEMICA ISTITUZIONALE

- **2006-2008:** Componente della Commissione di valutazione per la distribuzione dei fondi ex 60% della Facoltà di Medicina e Chirurgia, Università di Verona
- **2008-2010:** Componente della commissione Ricerca e Sviluppo della Facoltà di Medicina e Chirurgia, Università di Verona
- **2011-2014:** Componente del Senato Accademico Università di Verona
- **2011-2014:** Membro della Commissione di Ateneo per la distribuzione del FUR

ATTIVITÀ EDITORIALE

- Dal 2013 Membro dell'Editorial Board di *Genes & Immunity*
- Dal 2015 Associate Editor per *Frontiers in Immunology*, section *Cytokines and Soluble Mediators in Immunity*.
- 2019: Editor del Research Topic per *Frontiers in Immunology*, section *Cytokines and Soluble Mediators in Immunity*.

Attività di Reviewer per numerose riviste internazionali (Blood, Journal of Clinical Investigation, Journal of Immunology, PlosGenetics, European Journal of Immunology, Journal of Leukocyte Biology, Molecular and Cellular Biology, Frontiers in Immunology, Molecular Immunology, European Cytokine Network, Immunology, Immunology Letters, Cancer Research, Journal of International Cancer).

Attività di Reviewer per agenzie di finanziamento della ricerca.

SOCIETÀ SCIENTIFICHE

- Membro della Società Italiana di Immunologia, Immunologia Clinica e Allergologia (SIICA).
- Membro della Society for Leukocyte Biology
- 2014 – 2021: membro del Direttivo della Società Italiana di Immunologia, Immunologia Clinica e Allergologia (SIICA).
- 2021: nominata nel collegio dei *probi viri* della SIICA.

BREVETTI

Flavia Bazzoni, Bruce Beutler - Modified Receptors that continuously signal. US Patent number 5,925,548.
Date of patent: July 20, 1999.

ATTIVITÀ DIDATTICA

- 1996 ad oggi: relatore di tesi di Laurea Magistrale e Dottorato.
- 1998-2000: docente del corso “Ingegneria Genetica”, Scuola di Specializzazione in Biologia Clinica, Facoltà di Medicina e Chirurgia, Università degli Studi di Verona.
- 1998 ad oggi: docente dell’insegnamento di Patologia Generale per diversi Corsi di Laurea triennale e Magistrale con sede a Verona, Rovereto (TN), Ala (TN) e Trento.
- 1999-2012: membro del Collegio Docenti della Scuola di Dottorato in Scienze Biomediche Traslazionali, corso di Dottorato in Biologia e Patologia Cellulare e Molecolare.
- 2013 ad oggi: membro del Collegio Docenti della Scuola di Dottorato in Scienze della Vita e della Salute, Corso di Dottorato in Infiammazione, Immunità e Cancro.
- 2017 ad oggi: coordinatore del corso di Patologia generale e immunologia, corso di Laurea Magistrale a ciclo unico in Odontoiatria e protesi dentaria.
- 2021-2023: docente del modulo di Patologia Generale Laurea magistrale a ciclo unico in Medicina e Chirurgia, sedi di Verona e Trento.
- 2023 ad oggi: docente di Patologia Generale, corso di Laurea Magistrale a ciclo unico in Medicina e Chirurgia, Università di Verona

Formale attribuzione di incarichi di insegnamento presso qualificati atenei e istituti di ricerca esteri o sovranazionali

- 1991-1995: tutor per “Undergraduate Students” UT Southwestern Medical School at Dallas, TX, U.S.
- 1997: docente del Corso Avanzato su "Cytokines in Immunity", organizzato dalla Scuola Superiore d'Immunologia Ruggero Ceppellini, diretta dal Prof. Abul K. Abbas, Harvard Medical School, Boston, MA, USA. Topic : “TNF Ligand:Receptor Families”.
- 2003: docente all’EMBO Lecture Course on "New Development in Genomics for Biomedicine", Brdo Estate, Slovenia. Organizzatore Franc Gubensek. Topic: “A new strategy for safe and efficient use of TNF- α in cancer therapy”.
- 2010, April 12th to June 18th: tutor of undergraduate student Long Vo-Ngoc from the Department of Molecular Biology of the Free University of Brussels (ULB).
- 2016-2017: Supervisore della studentessa Nila H. Servaas, Graduate School of Life Sciences (GSLs), UMC Utrecht & Utrecht University, Utrecht, NL

COLLABORAZIONI INTERNAZIONALI

- 2001: YOSHIMURA Akihiko e KINJO Ichiko , Molecular and Cellular Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan.
- 2004: McDONALD Patrick e EAR Tornin, Pulmonary Division, University of Sherbrooke, Sherbrooke, Canada.
- 2009: Martin S Davey, Bernhard Moser, Matthias Eberl (Department of Infection, Immunity and Biochemistry, School of Medicine, Cardiff University, Cardiff, UK), Kirsten Bruderek, Sven Brandau, Lisa Zimmer (Department of Otorhinolaryngology, University Hospital Essen, Essen, Germany), Bastian Schilling (Department of Dermatology, University Hospital Essen, 45147 Essen, Germany).
- 2016: Timoty R.D.J. Radstake, Department of Rheumatology and Clinical Immunology, University Medical Center Utrecht, and Laboratory of Translational Immunology, University Medical Center Utrecht, Utrecht, Netherlands.
- 2019: Matthias Eberl, Division of Infection and Immunity, School of Medicine, Cardiff University, Cardiff, United Kingdom

LINEE DI RICERCA

- Caratterizzazione e studio dei meccanismi di attivazione dei granulociti neutrofili e dei monociti umani.
- Caratterizzazione di citochine e chemochine prodotte da granulociti neutrofili umani
- Controllo trascrizionale e post-trascrizionale della biosintesi del TNF α .
- Analisi dei meccanismi di attivazione dei recettori del TNF α .
- Meccanismi di inibizione dei processi infiammatori: funzioni biologiche e meccanismi d'azione dell'Interleuchina-10 (IL-10).
- Meccanismi epigenetici che regolano l'espressione di citochine.
- Non-coding RNA nella risposta infiammatoria.
- Ruolo del sesso sul profilo trascrizionale ed epigenetico dei neutrofili umani

INDICATORI BIBLIOMETRICI

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Autrice di 73 pubblicazioni su riviste internazionali con IF (JCR 2024), 5 pubblicazioni su libri.

H index: 38 (Scopus. <https://www.scopus.com/authid/detail.uri?authorId=6603871412>)

Totale citazioni: 6275 (Scopus)

Impact factor totale (JCR 2024): 522,24

Average Impact factor 13,74

56.3% of documents in the top 25% most cited documents worldwide.

81.3% of documents in the top 25% journals by CiteScore

(aggiornato al 24/04/2026)

ELENCO DELLE PUBBLICAZIONI

1. Barbara Mariotti, Sara Gasperini, Chiara Bracaglia, Carlo Frigenti, Giulia Sartori, Claudia di Chiara, Francesca Sangiovanni, Ernesto Crisafulli and Flavia Bazzoni. Sex-dependent transcriptional and epigenetic regulation of neutrophil inflammatory programs in COPD. *Frontiers in Immunology*. 2026; 17:1824596. doi: 10.3389/fimmu.2026.1824596
2. Carolina Gaudenzi; Irene Lo Cigno; Helena Stabile; Roberta Maggio; Francesca Bianchi; Gaia Giongrandi; Stefania Zini; Tiziana Schioppa; Laura Tiberio; Angela Ceribelli; Carlo Selmi; Marisa Gariglio; Angela Gismondi; Silvano Sozzani; Annalisa Del Prete; Flavia Bazzoni; Daniela Bosisio; Valentina Salvi. Psoriatic microRNAs induce NK cell activation via an innate immune crosstalk

- abrogated by the Toll-like receptor 7/8 antagonist Enpatoran. *Journal of Translational Medicine*, 2026;24(1):478. doi: 10.1186/s12967-026-07909-5.
3. Calabretto G, Binatti A, Teramo A, Buratin A, Barilà G, Gasparini VR, Vicenzetto C, Gaffo E, Rampazzo E, Orsi S, Buson E, Trimarco V, Mariotti B, Facco M, **Bazzoni F**, Trentin L, Semenzato G, Zambello R, Bortoluzzi S. Transcriptomic landscape of CD8+ and CD4 + T-LGL leukemia revealed the distinct impact of STAT3 and STAT5B activating mutations. *Leukemia*. 2025 Jul 28. doi: 10.1038/s41375-025-02708-1. Online ahead of print. PMID: 40721648
 4. Lattanzi C, Bianchetto-Aguilera F, Donini M, Pettinella F, Cavegion E, Castellucci M, Gasperini S, Mariotti B, Signoretto I, Cantini M, Pilotto S, Belluomini L, Tecchio C, **Bazzoni F**, Brandau S, Tamassia N, Cassatella MA, Scapini P. Uncovering common transcriptional features shared by mature peripheral blood PMN-MDSCs and tumor-infiltrating neutrophils in humans. *Oncoimmunology*. 2025 Dec;14(1):2521396. doi: 10.1080/2162402X.2025.2521396. Epub 2025 Jul 1. PMID: 40590753
 5. Barbara Mariotti, Chiara Bracaglia, Sara Gasperini, Giulia Sartori, Ernesto Crisafulli and Flavia Bazzoni. Innate immune reprogramming in circulating neutrophils of COPD patients. *Journal of Allergy and Clinical Immunology* 2025, 156 (2):373-384. doi: 10.1016/j.jaci.2025.04.011. PMID: 40239873.
 6. Valentina Salvi, Carolina Gaudenzi, Barbara Mariotti, Gaia Giongrandi, Silvia Alacqua, Veronica Gianello, Tiziana Schioppa, Laura Tiberio, Angela Ceribelli, Carlo Selmi, Paolo Bergese, Stefano Calza, Annalisa Del Prete, Silvano Sozzani, Flavia Bazzoni and Daniela Bosisio. Cell damage shifts the microRNA content of small extracellular vesicles into a Toll- like receptor 7-activating cargo capable to propagate inflammation and immunity. *Cell Communication and Signaling* 2024, 22:536.
 7. Pettinella, F; Mariotti, B; Lattanzi, C; Bruderek, K; Donini, M; Costa, S; Marini, O; Iannoto, G; Gasperini, S; Cavegion, E; Castellucci, M, Calzetti, F; Bianchetto-Aguilera, F; Gardiman, E; Matteo, G; Dusi, S; Cantini, M; Vassanelli, A; Pavone, D; Milella, M; Pilotto, S; Biondani, P; Hoing, B; Schleupner, MC; Hussain, T; Boris, H; Kaspar, C; Visco, C; Tecchio, C; Koenderman, L; Bazzoni, F; Cassatella, MA; Scapini, P. Surface CD52, CD84, and PTGER2 mark mature PMN-MDSCs from cancer patients and G-CSF-treated donors. *Cell Reports Medicine* 2024, 5:101380.
 8. Barbara Mariotti, Costanza Di Blas, Flavia Bazzoni. Implementation of a combined bioinformatics and experimental approach to address lncRNA mechanism of action: the example of NRIR. *Frontiers in Molecular Biosciences* 2022, 9:873847.
 9. Troianova N, Mariotti B, Micheletti V, Calzetti F, Donini M, Salvagno G, Ferrari M, Crisafulli E, Bazzoni F. Impact of Sex on Circulating Leukocytes Composition in COPD Patients. *International Journal COPD* 2021; 16:3539-3550.
 10. Servaas NH, Mariotti B, van der Kroef M, Wichers CGK, Pandit A, **Bazzoni F**, Radstake TRDJ, Rossato M. Characterization of Long Non-Coding RNAs in Systemic Sclerosis Monocytes: A potential Role for PSMB8-AS1 in Altered Cytokine Secretion. *Int J Mol Sci*. 2021; 22:4365. doi: 10.3390/ijms22094365.
 11. Daniela Bosisio and **Flavia Bazzoni**. Regulation of Soluble Immune Mediators by Non-Coding RNAs. *Frontiers in Immunology*, 2020 Oct 15;11:607222. doi: 10.3389/fimmu.2020.607222. eCollection 2020.
 12. Tamassia N, Cassatella MA, **Bazzoni F**. Fast and Accurate Quantitative Analysis of Cytokine Gene Expression in Human Neutrophils by Reverse Transcription Real-Time PCR. *Methods Mol Biol*. 2020; 2087:243-260.
 13. Mariotti B, Calabretto G, Rossato M, Teramo A, Castellucci M, Barilà G, Leoncin M, Vicenzetto C, Facco M, Semenzato G, **Bazzoni F**, Zambello R. Identification of a miR-146b-FasL axis in the development of neutropenia in T large granular lymphocyte leukemia. *Haematologica*. 2020 May;105(5):1351-1360.
 14. Brook AC, Jenkins RH, Clayton A, Kift-Morgan A, Raby AC, Shephard AP, Mariotti B, Cuff SM, **Bazzoni F**, Bowen T, Fraser DJ, Eberl M. Neutrophil-derived miR-223 as local biomarker of bacterial peritonitis. *Scientific Reports* 2019 Jul 12;9(1):10136.
 15. van der Kroef M, Castellucci M, Mokry M, Cossu M, Garonzi M, Bossini-Castillo L, Chouri E, Wichers C.G.K, Beretta L, Trombetta E, Silva-Cardoso S, Vazirpanah N, Carvalheiro T, Angiolilli C, Bekker

- C.P.J, Affandy A.J, Reedquist K.A, Bonte-Mineur F, Zirkzee EJM, **Bazzoni F**, Radstake TRDJ and Rossato M. (2019). Histone modifications underlie monocyte dysregulation in Systemic Sclerosis patients, underlining the treatment potential of epigenetic targeting. *Annals of the Rheumatic Diseases*, 2019 Apr;78(4):529-538.
16. Mariotti B, Servaas NH, Rossato M, Tamassia N, Cassatella MA, Cossu M, Beretta L, van der Kroef M, Radstake TRDJ and **Bazzoni F** (2019). The Long-Non-coding RNA NRIR Drives IFN-Response in Monocytes: Implication for Systemic Sclerosis. *Frontiers in Immunology* 2019; January 2019, Volume 10, Article 100.
 17. Graziella Curtale, Tiziana A. Renzi, Massimiliano Mirolo, Lorenzo Drufuca, Manuel Albanese, Mariacristina De Luca, Marzia Rossato, **Flavia Bazzoni** and Massimo Locati. Multi-Step Regulation of the TLR4 Pathway by the miR-125a-99b-let-7e Cluster. *Frontiers in Immunology* 2018, 9:2037.
 18. SIICA Board, Annunziato F, **Bazzoni F**, Carbone E, Cassatella MA, De Palma R, Di Rosa F, Gabrielli A, Granucci F, Locati M, Quinti I, Santoni A. UniVax Day 2018 - Outreach to high school students to improve vaccination rates. *European Journal of Immunology* 2018 Aug;48(8):1266-1268.
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 20. Monica Castellucci, Marzia Rossato, Federica Calzetti, Nicola Tamassia, Stefano Zeminian, Marco A. Cassatella, and **Flavia Bazzoni**. IL-10 disrupts the Brd4-docking sites to inhibit LPS-induced CXCL8 and TNF- α expression in monocytes: implication for COPD. *Journal of Allergy and Clinical Immunology*, 2015, 136:781-791
 21. Maili Zimmermann, Francisco Bianchetto Aguilera, Monica Castellucci, Marzia Rossato, Sara Costa, Claudio Lunardi, Renato Ostuni, Giampiero Girolomoni, Gioacchino Natoli, **Flavia Bazzoni**, Nicola Tamassia, & Marco A. Cassatella. Chromatin remodelling and autocrine TNF α are required for optimal interleukin-6 expression in activated human neutrophils. *Nature Communications*, 2015; 6:6061
 22. Tamassia N, Cassatella MA, **Bazzoni F**. Fast and accurate quantitative analysis of cytokine gene expression in human neutrophils. *Methods in Molecular Biology* 2014; 1124:451-67.
 23. Sarath Kiran Channavajhala, Marzia Rossato, Francesca Morandini, Annalisa Castagna, Francesca Pizzolo, **Flavia Bazzoni** and Oliviero Olivieri. Optimizing the purification and analysis of miRNAs from urinary exosomes. *Clinical Chemistry and Laboratory Medicine*, 2014, 52:345-54
 24. Graziella Curtale, Massimiliano Mirolo, Tiziana Renzi, Marzia Rossato, **Flavia Bazzoni**, Massimo Locati. Negative regulation of Toll-Like Receptor 4 signalling by the IL-10-dependent microRNA-146b. *Proceeding of the National Academy of Science U.S.A.* 2013, 110:11499-504. Nicola Tamassia, Maili Zimmermann, Monica Castellucci, Renato Ostuni, Kirsten Bruderek, Bastian Schilling, Sven Brandau, **Flavia Bazzoni**, Gioacchino Natoli, and Marco A. Cassatella. An Inactive Chromatin Configuration at the IL-10 Locus in Human Neutrophils. *The Journal of Immunology* 2013, 190:1921-1925.
 25. Nicola Tamassia, Maili Zimmermann, Monica Castellucci, Renato Ostuni, Kirsten Bruderek, Bastian Schilling, Sven Brandau, **Flavia Bazzoni**, Gioacchino Natoli, and Marco A. Cassatella. An Inactive Chromatin Configuration at the IL-10 Locus in Human Neutrophils. *The Journal of Immunology* 2013; 190:1921-1925. DOI: 10.4049/jimmunol.1203022
 26. Marzia Rossato, Graziella Curtale, Nicola Tamassia, Monica Castellucci, Laura Mori, Sara Gasperini, Barbara Mariotti, Mariacristina De Luca, Massimiliano Mirolo, Marco A. Cassatella, Massimo Locati and **Flavia Bazzoni**. IL-10-induced microRNA-187 negatively regulates TNF- α , IL-6, and IL-12p40 production in TLR4-stimulated monocytes. *Proceeding of the National Academy of Science U.S.A.*, 2012, 109:18257-18258, E3101-3110.
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29. Giacomelli BM, Tamassia N, Moratto D, Bertolini P, Ricci G, Bertulli C, Plebani A, Cassatella M, **Bazzoni F**, Badolato R. SH2 domain mutations of STAT3 gene result in impairment of IL-10 function in hyper-IgE syndrome patients. *European Journal of Immunology* 2011, 41:3075-3084
30. Vairo D, Tassone L, Tabellini G, Tamassia N, Gasperini S, **Bazzoni F**, Plebani A, Porta F, Notarangelo LD, Parolini S, Giliani S, Badolato R. Severe impairment of IFN γ and IFN α responses in cells of a patient with a novel STAT1 splicing mutation. *Blood* 2011, 118:1806-1817.
31. Francesca Morandini, Linda Avesani, Luisa Bortesi, Bart Van Droogenbroeck, Elsa Arcalis, **Flavia Bazzoni**, Luca Santi, Annalisa Brozzetti, Alberto Falorni, Eva Stoger³, Ann Depicker, Mario Pezzotti. Non-food/feed seeds as biofactories for the high yield production of recombinant pharmaceuticals. *Plant Biotechnology Journal* 2011, 9:911-921.
32. **Flavia Bazzoni**, Nicola Tamassia, Marzia Rossato and Marco A. Cassatella. Understanding the molecular mechanisms of the multifaceted IL-10-mediated anti-inflammatory response: lessons from neutrophils. *European Journal of Immunology* 2010, 40:2360-2368.
33. Nicola Tamassia, Monica Castellucci, Marzia Rossato, Sara Gasperini, Daniela Bosisio, Mauro Giacomelli, Raffaele Badolato, Marco A. Cassatella and **Flavia Bazzoni**. Uncovering an IL-10-dependent NF- κ B recruitment to the IL-1 α promoter that is impaired in STAT3 functionally defective patients. *FASEB Journal* 2010, 24: 1365-1375.
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36. Nicola Tamassia, Vincent Le Moigne, Marzia Rossato, Marta Donini, Stephen McCartney, Federica Calzetti, Marco Colonna, **Flavia Bazzoni** and Marco Cassatella. Activation of an immunoregulatory and antiviral gene expression program in poly(I:C)-transfected human neutrophils. *The Journal of Immunology* 2008, 181:6563-6573.
37. Tamassia N, Cassatella MA, **Bazzoni F**. Fast and accurate quantitative analysis of cytokine gene expression in human neutrophils by reverse transcription real-time PCR. *Methods in Molecular Biology* 2007;412:455-71
38. N. Tamassia, F. Calzetti, N. Menestrina, M. Rossato, **F. Bazzoni**, L. Gottin, and M.A. Cassatella. Circulating neutrophils of septic patients constitutively express interleukin-10R1 (IL-10R1) and are promptly responsive to IL-10. *International Immunology* 2008, 20:535-541.
39. P. Scapini, **F. Bazzoni**, M.A.Cassatella. Regulation of B-cell-activating factor (BAFF)/B lymphocyte stimulator (BLyS) expression in human neutrophils. *Immunology Letters* 2008, 116:1-6.
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41. N. Tamassia, F. Calzetti, T. Ear, A. Cloutier, S. Gasperini, **F. Bazzoni**, P. McDonald, MA. Cassatella. Molecular mechanisms underlying the synergistic induction of CXCL10 by LPS and IFN γ in human neutrophils. *European Journal of Immunology* 2007, 37:2627-2634.
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- without lipopolysaccharide in dendritic cells: induction of the B cell-activating chemokine, CXC chemokine ligand 13. *The Journal of Immunology* 2004, 172: 7031-7042.
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 47. **F. Bazzoni** and E. Regalia. Triggering of antitumor activity through melanome-specific transduction of a constitutively active tumor necrosis factor (TNF) R1 chimeric receptor in the absence of TNF- α . *Cancer Research* 2001, 61, 1050-1057.
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