

EUROPEAN
CURRICULUM
VITAE FORMAT



PERSONAL INFORMATION

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Nationality Italian

Gender Female **ORCID:** 0000-0002-5342-1162 **Codice Fiscale:** SCPPRZ72L71L781B

PUBLICATIONS

Total number of publications in peer-review journals: 53
Total number of citations: 5953 (Scopus); 9652 (Google Scholar)
H index: 34 (Scopus); 37 (Google Scholar)

FIELD OF INTEREST

Her main studies had the purpose of clarifying:

past activities:

- the molecular mechanisms regulating the gene expression and production of novel cytokines and chemokines in human neutrophils;
- the role of neutrophils in the modulation of the angiogenic process;
- the role of mouse and human myeloid cells, in particular monocytes and neutrophils, in autoimmune diseases, including lupus and psoriasis.

recent activities:

- the functional, molecular, and phenotypic properties of mature and immature neutrophils from G-CSF-mobilized peripheral blood stem cells (PBSC) and cancer patients. Her research group has recently identified a specific gene signature and surface markers common to mature immunosuppressive neutrophils from G-CSF-mobilized peripheral blood stem cells (PBSC) and cancer patients. In addition, her research group has also uncovered previously underestimated transcriptomic similarities shared between circulating human mature PMN-MDSCs and tumor-associated neutrophils (TANs).
- the role of human neutrophils in tumors. Particular interest has been directed at determining the mechanisms that regulate the immunoregulatory properties of neutrophils toward T lymphocytes.

WORK EXPERIENCE

• Dates (from - to)
Occupation or position held

From Dec 2019 to date, **Associate Professor** of General and Clinical Pathology (SC 06/A2, SSD MED/04). Eligibility for full Full Professor obtained in 2024.

From 2006 to 2019 **Assistant Professor** of General and Clinical Pathology (SC 06/A2, SSD MED/04) (Sabbatical leave for scientific reasons from (November 2006 to December 2010)

From 2003 to 2005 **PhD student** (scholarship from the University of Verona)

From 2000 to 2002, **Research fellow** (scholarship awarded by Fondazione Italiana per la Ricerca sul Cancro, FIRC)

From 1998 to 2000, **Research fellow** (scholarship awarded by the Hospital Pharmacy School of Padua)

• Name / address employer University of Verona, Department of Medicine, General Pathology Section

- Type of business or sector
- Activities & responsibilities

Immunology/General Pathology

Research activities and teaching:

- 2023 - present: General Pathology course for the Bachelor's Degree in Biomedical Laboratory Techniques, University of Verona; Course coordinator
- 2023 - present: General Pathology course for the Bachelor's Orthopaedics Techniques, University of Verona;
- 2017 – present: General Pathology course for the Bachelor's Degree in Physiotherapy, University of Verona, (Rovereto); Course coordinator
- 2018 – 2022: General Pathology course for the Bachelor's Degree in Environmental and Workplace Accident Prevention Techniques, University of Verona (Trento); Course coordinator
- 2019 – present: General Pathology course for the Bachelor's Degree in Dental Hygiene, University of Verona (Verona);
- 2019 – present: General Pathology course for the Bachelor's Degree in Dental Hygiene, University of Verona (Rovereto); Course coordinator
- 2019 – present: General Pathology course for the Bachelor's Degree in Cardiocirculatory Physiopathology and Cardiovascular Perfusion Techniques, University of Verona (Verona); Course coordinator
- 2012 to date: frontal lessons within the Ph.D program in “Inflammation, Immunity and Cancer” and Specialization Schools of the Medical School of the University of Verona
- Member of the teaching committees of the Ph.D program in “Molecular and Cellular Biology and Pathology” (2008-2012) and “Inflammation, Immunity and Cancer” (2013 to date), University of Verona.

- Dates (from - to)

From 2005 to 2010

- Name / address employer
- Type of business or sector
- Occupation or position held
- Activities & responsibilities

University of California, San Francisco, San Francisco, CA (USA)

Department of Laboratory Medicine

Postdoctoral Employee

Research activities

- Dates (from - to)

From 2004 to 2005

- Name / address employer
- Type of business or sector
- Occupation or position held
- Activities & responsibilities

Rockefeller University, New York, NY (USA)

Laboratory of Molecular Genetics and Immunology

Visiting PhD Student

Research activities

EDUCATION AND TRAINING

- Dates (from - to)

From 2003 to 2005

- Name organisation training
- Principal subjects

Verona University, Italy

Molecular and Cellular Biology and Pathology

- Title of qualification awarded

PhD

- Dates (from - to)

From 1997 to 2000

- Name organisation training
- Principal subjects

Padua University, Italy

Hospital Pharmacy

- Title of qualification awarded

Specialization school

- Dates (from - to)

From 1991 to 1996

- Name organisation training
- Principal subjects

Padua University, Italy

Pharmaceutical Chemistry and Technology

- Title of qualification awarded

Master degree (110/110)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

Italian

OTHER LANGUAGES

ENGLISH

SCIENTIFIC SKILLS
AND COMPETENCES

Expertise in neutrophil biology, innate immunity, and inflammation. During her training as PhD student and post-doctoral researcher in prestigious laboratories both in Italy (Prof. Cassatella M.A, University of Verona, Italy) and abroad (Prof. Ravetch J.V, Rockefeller University, NY, US and Prof. Lowell C.A., University of California, San Francisco, CA, US), she has acquired a strong scientific and technical expertise in the myeloid cell research field, with particular focus on neutrophils. She has been mainly investigating how deregulated signaling, cytokine production, and functional responses in myeloid cells can affect pathological processes such as angiogenesis, autoimmunity, and, more recently, cancer.

RELEVANT ROLES AND
COMPETENCES

*Coordination and administration
of people, projects and budgets.*

-Since 2011, she has established her own laboratory at the University of Verona mostly focusing on investigating the phenotype, molecular profile and immunoregulatory properties of immunosuppressive neutrophils from stem cell donors and cancer patients.

-TUTOR/SUPERVISOR of graduate/PhD students and post-doctoral fellows

-MEMBER of two European COST actions (Mye-Euniter- <http://www.mye-euniter.eu/> and Mye-InfoBank www.cost.eu/actions/CA20117/) aimed at defining standardized guidelines/markers/molecular signature for the scientific research on myeloid regulatory cells (MRCs)

-EDITORIAL ACTIVITIES: ad-hoc reviewer for several scientific journals (such as Journal of Allergy and Clinical Immunology, Journal of Immunology, Journal of Clinical Investigation, Journal of Leukocyte Biology, European Journal of Immunology, Frontiers in Immunology and Clinical Cancer Research) and for national scientific evaluation programs assigned by MIUR/ANVUR;
Associate Editor (2017–2023), Frontiers Immunology-Cytokines and Soluble Mediators in Immunity Section;
Associate Editor (2023–present), Frontiers Immunology- Cancer Immunity and Immunotherapy Section.

-INVITED SPEAKER/CHAIRMAN at national and international scientific meetings. Among the most recent: The Society For Leukocyte Biology's 49th Annual Meeting and "Neutrophil" 2016. Verona, Italy September 15-17, 2016. Invited speaker; National Congress 2017 of the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA). Bari, Italy May 28-31, 2017. Invited speaker; Annual Meeting for the French Society for Immunology and the French Cytometry Association. Reims, France November 7-9, 2017. Invited speaker: Neutrophil 2018. Québec City, Canada. June 2-5, 2018. Invited speaker. 32nd Annual Conference EMDS2018. September 27-29, 2018 – Verona, Italy; Invited chairman: 1st European Symposium on Myeloid Regulatory Cells in Health and Disease. 1-3 November, 2018. Essen, Germany; Invited speaker; National Congress 2022 of the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA). Naples, Italy May 23-26, 2022. Invited speaker; E-COST-MEETING-CA20117-150224-65598069 Neutrophil meeting group. February 15-16, 2024. Verona, Italy. Invited speaker; 42a CONFERENZA NAZIONALE DI CITOMETRIA. June 5-7, 2024. Napoli, Italy. Invited speaker; Neutrophil 2024. September 17 -19, 2024. Munchen, Germany. Invited chairman. 44a CONFERENZA NAZIONALE DI CITOMETRIA. June 10-12, 2026. Napoli, Italy. Invited speaker

RELEVANT
PUBLICATIONS

- Lattanzi C, Bianchetto-Aguilera F, Donini M, Pettinella F, Cavegion E, Castellucci M, Gasperini S, Mariotti B, Signoreto I, Cantini M, Pilotto S, Belluomini L, Tecchio C, Bazzoni F, Brandau S, Tamassia N, Cassatella MA, **Scapini P.** (2025) Uncovering common transcriptional features shared by mature peripheral blood PMN-MDSCs and tumor-infiltrating neutrophils in humans. *Oncoimmunology*;14:2521396. doi: 10.1080/2162402X.2025.2521396.

- Pettinella F, Mariotti B, Lattanzi C, Bruderek K, Donini M, Costa S, Marini O, Iannoto G, Gasperini S, Caveggion E, Castellucci M, Calzetti F, Bianchetto-Aguilera F, Gardiman E, Giani M, Dusi S, Cantini M, Vassanelli A, Pavone D, Milella M, Pilotto S, Biondani P, Höing B, Schleupner MC, Hussain T, Hadaschik B, Kaspar C, Visco C, Tecchio C, Koenderman L, Bazzoni F, Tamassia N, Brandau S, Cassatella MA, **Scapini P.** (2024) Surface CD52, CD84, and PTGER2 mark mature PMN-MDSCs from cancer patients and G-CSF-treated donors. *Cell Rep Med.*;5:101380.doi: 10.1016/j.xcrm.2023.101380.
- Pettinella F, Lattanzi C, Donini M, Caveggion E, Marini O, Iannoto G, Costa S, Zenaro E, Fortunato TM, Gasperini S, Giani M, Belluomini L, Sposito M, Insolda J, Scaglione IM, Milella M, Adamo A, Poffe O, Bronte V, Dusi S, Cassatella MA, Ugel S, Pilotto S, **Scapini P.** (2023) Plasmacytoid Dendritic Cell, Slan⁺-Monocyte and Natural Killer Cell Counts Function as Blood Cell-Based Biomarkers for Predicting Responses to Immune Checkpoint Inhibitor Monotherapy in Non-Small Cell Lung Cancer Patients. *CANCERS (Basel)*;15:5285.doi: 10.3390/cancers15215285
- Costa S, Bevilacqua D, Caveggion E, Gasperini S, Zenaro E, Pettinella F, Donini M, Dusi S, Constantin G, Lonardi S, Vermi W, De Sanctis F, Ugel S, Cestari T, Abram CL, Lowell CA, Rodegher P, Tagliaro F, Girolomoni G, Cassatella MA, **Scapini P.** (2022). Neutrophils inhibit $\gamma\delta$ T cell functions in the imiquimod-induced mouse model of psoriasis. *Front Immunol.* 13:1049079.doi: 10.3389/fimmu.2022.1049079.
- Calzetti F, Finotti G, Tamassia N, Bianchetto Aguilera F, Castellucci M, Canè S, Lonardi S, Cavallini C, Matte' A, Gasperini S, SIGNORETTO I, Benedetti F, Bonifacio M, Vermi W, Ugel S, Bronte V, Tecchio C, **Scapini P,** Cassatella MA. (2022). CD66b-CD64^{dim}CD115⁻ cells in the human bone marrow represent neutrophil-committed progenitors. *NATURE IMMUNOLOGY*; 23:679-691.; doi: 10.1038/s41590-022-01189-z
- Cassatella M.A, **Scapini P.** (2020). On the Improper Use of the Term High-Density Neutrophils. *TRENDS IN IMMUNOLOGY*, vol. 41, p. 1059-1061, ISSN: 1471-4906, doi: 10.1016/j.it.2020.10.008
- Costa Sara, Bevilacqua Dalila, Cassatella Marco A, **Scapini Patrizia.** (2019). Recent advances on the crosstalk between neutrophils and B or T lymphocytes. *IMMUNOLOGY*, vol. 156, p. 23-32-32, ISSN: 0019-2805, doi:10.1111/imm.13005
- Silvestre-Roig C., Fridlender Z.G, Glogauer M., **Scapini P.** (2019). Neutrophil Diversity in Health and Disease. *TRENDS IN IMMUNOLOGY*, vol. 40, p. 565-583, doi: 10.1016/j.it.2019.04.012
- Costa S, Marini O, Bevilacqua D, Defranco AI, Hou B, Lonardi S, Vermi W, Rodegher P, Panato A, Tagliaro F Lowell CA, Cassatella MA, Girolomoni G, **Scapini P.** (2017). Role of MyD88 signaling in the imiquimod-induced mouse model of psoriasis: focus on innate myeloid cells. *JOURNAL OF LEUKOCYTE BIOLOGY*, vol. 102, p. 791-803, doi: 10.1189/jlb.3MA0217-054RR
- Marini O., Costa S., Bevilacqua D., Calzetti F, Tamassia N., Spina C., De Sabata D., Tinazzi E., Lunardi C., Scupoli M., Cavallini C., Zoratti E., Tinazzi I., Marchetta A., Vassanelli A., Cantini M., Gandini G., Ruzzenente A., Alfredo Guglielmi A., Missale F., Vermi W., Tecchio C., Cassatella M.A., **Scapini P.** (2017). Mature CD10⁺ and immature CD10⁻neutrophils present in G-CSF-treated donors display opposite effects on T cells. *BLOOD*, vol. 129, p. 1343-1356, doi: 10.1182/blood-2016-04-713206 –
- **Scapini P.,** Marini O., Tecchio C., Cassatella M. A.. (2016). Human neutrophils in the saga of cellular heterogeneity: insights and open questions.. *IMMUNOLOGICAL REVIEWS*, vol. 273, p. 48-60, doi: 10.1111/imr.12448
- **Scapini P.,** Cassatella M.A.. (2014). Social networking of human neutrophils within the immune system. *BLOOD*, vol. 124, p. 710-719, doi: 10.1182/blood-2014-03-453217
- **Scapini P.,** Lamagna C, Hu Y, Lee K, Tang Q, Defranco AL, Lowell C.A. (2011). B cell-derived IL-10 suppresses inflammatory disease in Lyn-deficient mice. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, vol. 108, p. E823-E832, ISSN: 0027-8424, doi: 10.1073/pnas.1107913108

- **Scapini P.**, Hu Y, Chu CL, Migone TS, Defranco AL, CASSATELLA, M.A., Lowell CA. (2010). Myeloid cells, BAFF, and IFN-gamma establish an inflammatory loop that exacerbates autoimmunity in Lyn-deficient mice. JOURNAL OF EXPERIMENTAL MEDICINE, vol. 207, p. 1757-1773, doi: 10.1084/jem.20100086

RELEVANT GRANTS

(2009-2011): Cariverona Foundation Grant 2008; Scapini P. effort: Principal investigator.
(2013-2016): F.I.R.B-Futuro in Ricerca Grant; Scapini P. effort: Research Unit Leader.
(2019-2021): Research grant for basic science from the University of Verona (RB2018SCAPINI); Scapini P. effort: Principal investigator.
(2018-2022): Research grant 2017 from the Italian Association on Cancer Research (AIRC, IG20339 to Marco A. Cassatella P.I.); Scapini P. effort: Scientific collaborator.
(2018-2020): Cariverona Foundation Grant 2018; Scapini P. effort: Scientific collaborator.
(2023-2027): Research grant 2022 from the Italian Association on Cancer Research (AIRC, IG27613 to Marco A. Cassatella P.I.); Scapini P. effort: Scientific collaborator.
(2023-2024): Research grant for basic science from the University of Verona (RB2022SCAPINI) ; Scapini P. effort: Principal investigator.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Place and date Verona, March 8th, 2026

Signature

