

## PERSONAL INFORMATION

**CASSATELLA, Marco Antonio**

**DEPT. MEDICINE, GENERAL PATHOLOGY SECTION, STRADA LE GRAZIE, 8;  
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Sex M | Date of birth 01/01/1959 | Nationality Italian

**Current Position:** Professor of General Pathology (SSD MED04)

**PhD awarded less than 10 Years ago:** No

**Scientific Profile:** In recent years, Prof. Cassatella's studies had the purpose to clarify: i) the molecular bases of cytokine production by human neutrophils; ii) gene expression regulation during neutrophil activation; iii) the signalling pathways activated via TLR4 and TLR8 in human leukocytes; iv) the epigenetic control of cytokine expression in human neutrophils; v) the molecular features and markers of human PMN-MDSCs; vi) the earliest precursors of human neutrophils in bone marrow; vii) the role of the 6-sulfo LacNAc<sup>+</sup> monocytes in tumors.

**Bibliometric Indicators:**

Total number of publications in peer-review journals: 233, total H index, around 2400

Total number of citations: 22436 (Scopus) 33680 (Google Scholar)

H index: 75 (Scopus) 89 (Google Scholar)

H index (5y): (Scopus) 47 (Google Scholar)

## GOLDEN PARAGRAPH

**3 most recent relevant publications:**

Pettinella F, ..... Scapini P, **CASSATELLA MA**. **Cell Reports Medicine**. 2024 Jan 17:101380. Surface CD52, CD84, and PTGER2 mark mature PMN-MDSCs from cancer patients and G-CSF-treated donors. doi: 10.1016/j.xcrm.2023.101380.

Calzetti F, Finotti G, Tamassia N, ....., **CASSATELLA MA**. **NATURE IMMUNOLOGY**, Nat Immunol. 2022 Apr 28. CD66b-CD64dimCD115<sup>+</sup> cells in the human bone marrow represent neutrophil-committed progenitors. doi:10.1038/s41590-022-01189-z.

Ley, K, Hoffman, HM, Kubes, P, **CASSATELLA, MA**, Zychlinsky, A, Hedrick, CC, Catz S. **SCIENCE IMMUNOLOGY** 2018, vol. 3, p. eaat4579-1, Neutrophils: New insights and open questions. doi: 10.1126/sciimmunol.aat4579

Cassatella's group is recognized as an international leader in the field of innate immunity, in particular on the biology of neutrophils and monocytes, including their involvement in tumor. This is due not only for its scientific contribution, but also for having developed a series of biochemical, immunological and molecular biology approaches ideally utilizable for very delicate cells such as neutrophils, monocytes and dendritic cells. Additional expertise refers to next-generation sequencing techniques (including RNA-seq, ChIP-seq and single cell RNAseq) specifically set on human myeloid cells.

## ROLE IN THE PROJECT

## WORK EXPERIENCE

**2021 to 2024**, President of the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA)

**2018 – Current**, Director of the General Pathology Section, Teaching, Research

**2000 to 2016**, Coordinator of the PhD program in “Molecular and Cellular Biology and Pathology” and then in “Inflammation, Immunity and Cancer” at the Verona University

**2018 to 2023**, CTS Member of Associazione della Ricerca contro il cancro (AIRC)

**2017 to 2021**, SIICA President-elect

**2010 to 2015**, Society for Leukocyte Biology (USA) Councillor

**2007 to 2011**, Member of Telethon Scientific Committee (Italy)

**2002 to 2003**, European Society for Clinical Investigation, Councillor

**2000 to 2008**, SIICA Councillor

**2000 to 2016**, Coordinator of the PhD program in “Molecular and Cellular Biology and Pathology” and then in “Inflammation, Immunity and Cancer” at the Verona University

## REVIEWING ACTIVITIES

- **2003-2006: 2006-2009**: “Associate Editor” of Journal of Immunology

- **2001-present**: “Section Editor” of Journal of Leukocyte Biology

- **2007-2016**: Member of the “Editorial Board” of the European Journal of Immunology

- **2012-present**: “Section Editor” of Cytokine ()

- **2020-present**: “Section Editor” of CANCERS (2020-present)

- “Guest Associate Editor” and “Review Editor” for *Frontiers in Immunology*

**2018-present**: Faculty Opinion member (previously F1000,

<https://facultyopinions.com/search?query=cassatella>)

- regular “Reviewer” of: Science, Nature, Nature Immunology, Nature Reviews in Immunology, JCI, JExpMed, BLOOD, Trends in Immunology, Journal of Immunology, European Journal of Immunology, Immunology, Infection & Immunity, Laboratory Investigation, Cancer Research, Laboratory Investigation, Arthritis and Rheumatism, Journal of Interferon & Cytokine Research, British Journal of Pharmacology, Trends in Microbiology, and more.

## ORGANISATION OF SCIENTIFIC MEETINGS

-Scientific Organizer of two “European Phagocyte Workshop” (Milano, 7-10/4/1999; Verona, 2-5/4/2003)

-Local Organizer of the “II National Meeting of Societa' Italiana Immunologia Immunologia Clinica Allergologia (SIICA), Verona, 28-31/5/2003

-Local Organizer of TOLL2011 “decoding innate immunity”, in Riva del Garda (TN), Italy, May 4-7,2010

-Scientific Organizer of the 49th “Society of Leukocyte Biology Meeting (SLB)” Verona, 15-18/9/2016.

-“Steering Committee” member of:

“1st European Congress of Immunology – ECI, 6-9/9/2006 Paris/France;

“2nd ECI Meeting, 26/9 – 1/10, 2009, Berlin”;

“6th ECI Meeting, 2/9 – 5/9, 2021, Belgrad”;

-“Steering Committee” member of 15th International Congress of Immunology- Milano (Italy) August 2013:

-Local Organizer of the “XIV National Meeting of Societa' Italiana Immunologia Immunologia Clinica Allergologia (SIICA), Verona, 22-25/5/2023

## EDUCATION AND TRAINING

### 1987-1989

PostDoc in Immunology

Wistar Institute, Philadelphia, USA, in Dr. Giorgio Trinchieri's lab  
Computer-driven Drug  
AIRC fellowship, research on myeloid cell differentiation and NK biology

### 1983-1988

Specialization with full marks

University of Verona, ITALY

Clinical Biology

### 1977-1983

M.D. degree, with full marks and honor

University of Verona, ITALY

Medicine and Surgery

## PERSONAL SKILLS

### Organisational / managerial skills

Prof. Cassatella directs a research group actually consisting of 10 persons, including technicians, PhD students and Post Docs from Italy and abroad. He has proficient skills in research projects formulation, as testified by the many research fundings obtained from national and international agencies. He has acquired good skills in budget administration, not only for the management of research funds, but for the organization of international conferences. Cassatella' group is continuously involved in national and international scientific collaborations

## ADDITIONAL INFORMATION

### Most relevant publications in the last 10 Years

Pettinella F, Mariotti B, ....., Brandau S, **Cassatella MA**, Scapini P. Surface CD52, CD84, and PTGER2 mark mature PMN-MDSCs from cancer patients and G-CSF-treated donors. **Cell Rep Med.** 2024 Jan 17;101380. doi: 10.1016/j.xcrm.2023.101380. Online ahead of print. PMID: 38242120 Free article. **IF 15**

Finotti G, Pietronigro E, Balanzin C, Lonardi S, Constantin G, Chao MP, Tecchio C, Vermi W, **Cassatella MA**. slan<sup>+</sup> Monocytes Kill Cancer Cells Coated in Therapeutic Antibody by Trogoptosis. **Cancer Immunol Res.** 2023 Nov 1;11(11):1538-1552. doi: 10.1158/2326-6066.CIR-23-0239. PMID: 37695535 **IF 13**

Calzetti F, Finotti G, **Cassatella MA**. Current knowledge on the early stages of human neutropoiesis. **Immunol Rev.** 2023 Mar;314(1):111-124. doi: 10.1111/imr.13177. Epub 2022 Dec 9. PMID: 36484356 Review. **IF 9**

Montaldo E, ....., **Cassatella MA**, Hidalgo A, Kwok I, Ng LG, ... A, Ostuni R. Cellular and transcriptional dynamics of human neutrophils at steady state and upon stress. **Nat Immunol.** 2022 Oct;23(10):1470-1483. doi: 10.1038/s41590-022-01311-1. Epub 2022 Sep 22. PMID: 36138183 Free PMC article. **IF 25**

Calzetti F, Finotti G, Tamassia N, Bianchetto Aguilera F, ....., **CASSATELLA MA** (2022). CD66b-CD64dimCD115<sup>+</sup> cells in the human bone marrow represent neutrophil-committed progenitors. **NATURE IMMUNOLOGY**, Nat Immunol. 2022 Apr 28. doi: 10.1038/s41590-022-01189-z. **IF 25.06**

Tamassia, Nicola, ....., **CASSATELLA, Marco A.** (2021). Induction of OCT2 contributes to regulate the gene expression program in human neutrophils activated via TLR8. **CELL REPORTS**, vol. 35, p. 109143-109158. **IF 9.42**

**CASSATELLA, Marco A**, Scapini, Patrizia (2020). On the Improper Use of the Term High-Density Neutrophils. **TRENDS IN IMMUNOLOGY**, vol. 41, p. 1059-1061. **IF 16.69**

**CASSATELLA, Marco A.**, Östberg, Nataliya K, Tamassia, Nicola, Soehnlein, Oliver (2019). Biological Roles of Neutrophil-Derived Granule Proteins and Cytokines. **TRENDS IN IMMUNOLOGY**, vol. 40, p. 648-664-664. **IF 16.69**

Calzetti, Federica, ..... **CASSATELLA, Marco A.** (2018). Human dendritic cell subset 4 (DC4) correlates to a subset of CD14dim/-CD16++monocytes. **JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY**, vol. 314, p. 1-5. **IF 10.79**

Vermi, William, ...**CASSATELLA, Marco A.** (2018). slan+ monocytes and macrophages mediate CD20-dependent B cell lymphoma elimination via ADCC and ADCP. **CANCER RESEARCH**, vol. 78, p. 3544-3559. **IF 12.7**

Calzetti, Federica, Tamassia, Nicola, Arruda E Silva, Fabio, Gasperini, Sara, **CASSATELLA, Marco A.** (2017). The importance of being "pure" neutrophils. **JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY**, p. 352-355. **IF 10.79**

Marini, Olivia, ... **CASSATELLA, Marco A.** (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. **IF 23.7**

Zimmermann, Maili, Aguilera, ..... **CASSATELLA, Marco A.** (2015). Chromatin remodelling and autocrine TNF $\alpha$  are required for optimal interleukin-6 expression in activated human neutrophils. **NATURE COMMUNICATIONS**, vol. 6, p. 6061-6072. **IF 14.92**

SCAPINI, Patrizia, **CASSATELLA, Marco A.** (2014). Social networking of human neutrophils within the immune system. **BLOOD**, vol. 124, p. 710-719 **IF 23.7**

## Projects/Grants

### 2022-2027

AIRC, Dissecting the role of novel neutrophil-progenitors in malignancy pathogenesis and in neutrophil subset generation, 1100000 EUROS

### 2017-2022

AIRC, Identifying the immunological role of the various neutrophil subpopulations in human tumors, 680000 EUROS

### 2019-2023

MIUR

Emerging players shaping the responses of tumor inflammatory infiltrate, 118000 EUROS

### 2017-2021

MIUR

Molecular control of activation and suppression of innate immune cells, 152000 EUROS

## Conferences

**Invited Lectures** to many national and international meetings, including Gordon Conferences and World immunology meetings, as well as to a variety of Research centers/Universities/Institutions, all over the world.

**Honours and awards**

**2017** Bonazinga/Legacy Award from the Society of Leukocyte Biology (SLB)  
(<https://slb.memberclicks.net/slb-legacy-award>)

**2021** SLB Honorary Member (SLB)  
(<https://slb.memberclicks.net/honorary-life-members>)

*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*

Prof. Marco A. Cassatella

Verona, February 20, 2024

