

NICOLA TAMASSIA

Curriculum vitae

PERSONAL INFORMATION

Date of birth: April 2, 1977

Citizenship: Italian

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PROFESSIONAL FIELD

General Pathology and Immunology

POSITION

Dec 2022 to date: Associate Professor of General and Clinical Pathology (SC 06/A2, SSD MED/04) at the Department of Medicine, University of Verona, Verona Italy

EDUCATION

- 2004-2006: PhD degree in "molecular and cellular biology and pathology", University of Verona. Supervisor: Prof. Marco A. Cassatella
- 2003: Master degree in Agro-Industrial Biotechnology, University of Verona
- 1996: High School Diploma (Scientific education), Liceo "Galileo Galilei", Ostiglia (MN)

PROFESSIONAL EXPERIENCES

- 2003-2004: Scholarship. Department of Pathology, section of General Pathology, University of Verona, under the supervision of Prof. M.A. Cassatella.
- 2007-2009: Research fellow. Department of Pathology, section of General Pathology, University of Verona, in the group directed by Prof. M.A. Cassatella.
- 2010-2012: Scholarship. from Fondazione Italiana per la Ricerca sul Cancro (FIRC) Department of Pathology, University of Verona
- 2013-2015: Research fellow. Department of Pathology, University of Verona
- 2016-2019: Lab Technician, cat. D permanent position. Section of General Pathology, Department of Medicine, University of Verona
- 2019-2022: Assistant Professor (RTDB) of General and Clinical Pathology (SC 06/A2, SSD MED/04) at the Department of Medicine, University of Verona, Verona Italy

TEACHING

- 2021 to date: General Pathology course for the Master Degree in Biomedical Laboratory Techniques, University of Verona;
- 2021 to date: General Pathology and Immunology course for the Master Degree in Infermieristic sciences, University of Trento;
- 2019 to date: General Pathology and Immunology course for the Master Degree in Infermieristic sciences, University of Verona;
- 2019 to date: Member of the teaching committee of the Ph.D program in "Inflammation, Immunity and Cancer", University of Verona.
- 2010 to date: Frontal lessons to PhD students in translational biomedical science
- 2011 to date: Tutor/supervisor of graduate/PhD students and post-doctoral fellows;

FIELD OF INTEREST AND PROFESSIONAL GOALS

The general aim of my studies has been the identification of the cellular and molecular basis of the regulation of the inflammatory process and of the biological defences, focusing on myeloid cells. I specifically analysed different aspects of the cellular and molecular biology of human polymorphonuclear neutrophil granulocytes (PMNs), specifically the molecular mechanisms underlying their response to stimuli of different origins, in homeostatic conditions and in the context of inflammatory, autoimmune and oncological diseases. In the last years I extended my analyses to the whole genome level, applying Next Generation Sequencing methods (such as RNA-seq, scRNA-seq, and ChIP-Seq) to human neutrophils and monocytes. The main research lines followed in my scientific career are the following:

- Study of the epigenetic mechanisms controlling gene transcription in human neutrophils.
- Studies on the production of cytokines by human neutrophils.
- Characterization of the molecular mechanisms activated by pattern recognition receptors (PRRs) in human neutrophils.
- Identification of very immature precursors of human neutrophils in the bone marrow.
- Characterization of slan⁺ monocytes.
- Molecular characterization of primary immunodeficiencies

SCIENTIFIC ACTIVITY

(Since 2005)

- 80 peer-reviewed scientific publications, 1 book chapter
- Official H Index: 34 (based on Scopus), 33 (based on WoS)
- Total Citations: 4337 on Scopus and 4096 on WoS
- Average citations per article: > 51 (based on Scopus and WoS)
- Cumulative Impact Factor (IF): 686,1 (based on 2022 JCR values)
- Average IF per article: 9,15
- ORCID: 0000-0003-2990-3003
- Scopus author id: 8629993000
- ResearcherID:J-8621-2016

EDITORIAL ACTIVITIES

- Editor of the special issue of Frontiers in Immunology entitled “Phenotypic and Functional Heterogeneity of Neutrophils”
- Referee for peer review journals: Nature Communications (from 2017), Science Signaling (from 2021), Frontiers in immunology (from 2016), Scientific Reports (from 2016), PLOS ONE (from 2015), Immunology letter (from 2015), Journal of Leukocyte Biology (from 2016), Molecular Immunology (from 2019), Biosensors (from 2016) and Molecules (from 2016)

PERSONAL SKILLS AND COMPETENCES

ORGANIZATIONAL AND MANAGEMENT SKILLS

- From 2017, coordination of a research group for studying mechanisms that control gene transcription in innate immune cells by Next Generation Sequencing techniques.

- Ongoing international and national collaborations in the scientific fields of innate immunity and in particular in the study of neutrophil cellular and molecular biology
- Member of SIICA (Italian Society of Immunology, Clinical Immunology and Allergology) from 2007.
- Member of the European COST action CA20117 - Converting molecular profiles of myeloid cells into biomarkers for inflammation and cancer (<https://www.cost.eu/actions/CA20117/>)
- Organizer of the course “Training School on Basic methods to purify and investigate the discrete functions of human neutrophils” within the COST ACTION CA18233, (EuNet-INNOCHRON) “European Network for Innovative Diagnosis and Treatment of Chronic Neutropenias” held from 3rd to May 5th in Verona.
- Member of the local organizing committee of the XIV SIICA national congress held from 22 to 25 May 2023 in Verona.

RESEARCH GRANTS:

- 2019-2021: 3-year research grant from Ricerca Finalizzata 2016 -“Giovani Ricercatori” Ministero della Salute, “Role and plasticity of neutrophils in cancer: genetic and epigenetic approaches for better patient selection and innovative therapies” as responsible of operative unit. (GR-2016-02361263) 90,000 euros
- 2010-2012: Scholarship from Fondazione Italiana per la Ricerca sul Cancro (FIRC) 60,000 euros
- Role as participant in the following research grant founded to Prof. Marco A. Cassatella: Associazione Italiana per la Ricerca sul Cancro (AIRC IG-20339, AIRC IG-15454, AIRC 5839), Ministero dell’Istruzione, dell’Università e della Ricerca (PRIN 2015YYKPNN, 2009MFXE7L_001), Fondazione CARIPLO (grant 2015–0584), Fondazione CARIVERONA (bando 2008), Università di Verona (bando Ricerca di Base 2015).

AWARDS AND HONOURS

- Award for the best abstract concerning studies on chemokines 6TH national conference of Italian Society of immunology Clinical immunology and Allergology (SIICA), 2008, Roma.
- Award for the best abstracts at the 2011 Joint Annual Meeting-SIICA and German Society for Immunology (DGfI), 2011, Riccione.
- Awarded of Travel grants for various international conferences (SIICA 2008, ECI 2009, ESCI 2010, SIICA 2011, EMDS 2012).
- Awarded of a Fellowship for Next Generation Sequencing Data Analysis course at EMBL in Heidelberg, 2012

ORAL PRESENTATIONS

- TAMASSIA N., Le Moigne V., Calzetti F., Donini M., Gasperini S. e Cassatella M.A. Studi sulla Via di Trasduzione Attivata da TLR4 nei Neutrofili Umani. XXVIII Congresso Nazionale della Società Italiana di Patologia, 19-22 September 2006, Pavia.
- TAMASSIA N., Le Moigne V., Rossato M., Donini M., McCartney S., Calzetti F., Colonna M., Bazzoni F. e Cassatella M.A. Activation of an Immunoregulatory and Antiviral Gene Expression Program in Poly(I:C)-Transfected Human Neutrophils. 6TH national conference SIICA, 11-14 June 2008, Roma.
- TAMASSIA N., Bussmeyer U., Le Moigne V. and Cassatella M.A. Understanding why LPS is unable to mobilize the MyD88-independent pathway in human neutrophils. 44TH annual scientific meeting of the European Society for Clinical Investigation (ESCI), 24-27 February 2010, Bari.

- TAMASSIA N., Zimmermann M., Bianchetto F., Natoli G. and Cassatella M.A. Cell-specific epigenetic landscapes drive differential IL-6 gene expression in human neutrophils and monocytes. 9TH national conference SIICA, 28-31 May 2014, Firenze.
- Zimmermann M., Arruda-Silva F., Bianchetto-Aguilera F., Lunardi C., Cassatella M.A. and TAMASSIA N. IFN α enhances the production of IL-6 by human neutrophils activated via TLR8. 10TH national conference SIICA, 25-28 May 2016, Abano Terme.
- TAMASSIA N., Zimmermann M., Arruda-Silva F., Bianchetto-Aguilera F., Lunardi C. and Cassatella M.A. IFN α enhances the production of IL-6 by human neutrophils activated via TLR8. The Society For Leukocyte Biology's 49TH Annual Meeting and "Neutrophil 2016", September 15-17, 2016, Verona.
- TAMASSIA N., Bianchetto-Aguilera F., Gasperini S., Polletti S., Natoli G., Cassatella M.A. Genome-wide analysis of H3K27Ac and PU.1 binding patterns in human neutrophils activated via TLR8. Second Joint Annual Meeting-Italian Society of immunology Clinical immunology and Allergology (SIICA) and German Society for Immunology (DGfI), September 10-13, 2019, Munich (Germany)
- TAMASSIA N. Regulation of TLR8-activated gene expression and cytokine production in human neutrophils. SIICA 2021 XII National Congress, May 26-28, 2021, virtual. INVITED SPEAKER
- TAMASSIA N. The beginning of the neutrophil journey: identification of CD66b-CD64dimCD115- Neutrophil Committed Progenitor cells (NCPs). SINGLE-CELL DEEP PROFILING FOR SYSTEM BIOLOGY meeting, January 30, 2023, Rome, Italy. INVITED SPEAKER
- TAMASSIA N. The beginning of the neutrophil journey: identification of CD66b-CD64dimCD115- Neutrophil Committed Progenitor cells (NCPs). European Phagocyte Workshop March 29 - April 1, 2023, Budapest , Hungary

PUBLICATIONS

- 1: Tamassia, N, F Bianchetto-Aguilera, S Gasperini, A Grimaldi, C Montaldo, F Calzetti, E Gardiman, I Signoretto, M Castellucci, V Barnaba, M Tripodi, and MA Cassatella. **2023**. The slan antigen identifies the prototypical non-classical CD16(+)-monocytes in human blood. **FRONT IMMUNOL** 14:1287656. doi: 10.3389/fimmu.2023.1287656
- 2: Dotta, L, G Baresi, N Tamassia, F Calzetti, F Bianchetto-Aguilera, S Gasperini, E Gardiman, M Chiarini, D Moratto, G Martellosio, F Serana, M Micheletti, D Tregambe, V Pintabona, E Soncini, A Meini, MF Girelli, A Beghin, A Lanfranchi, M Bugatti, D Brugnoli, A Soresina, A Plebani, M Cassatella, W Vermi, F Porta, and R Badolato. **2023**. Clinical and transcriptomic characteristics of a novel SMARCD2 mutation that disrupts neutrophil maturation and function. **PEDIATR BLOOD CANCER** 70:e30671. doi: 10.1002/pbc.30671
- 3: Sozio, F, T Schioppa, M Laffranchi, V Salvi, N Tamassia, FM Bianchetto-Aguilera, L Tiberio, R Bonecchi, D Bosisio, M Parmentier, B Bottazzi, R Leone, E Russo, G Bernardini, S Garofalo, C Limatola, A Gismondi, G Sciume, A Mantovani, A Del Prete, and S Sozzani. **2023**. CCRL2 Expression by Specialized Lung Capillary Endothelial Cells Controls NK-cell Homing in Lung Cancer. **CANCER IMMUNOLOGY RESEARCH** 11:1280-95. doi: 10.1158/2326-6066.CIR-22-0951
- 4: Tamassia, N, and S Jaillon. **2023**. Editorial: Phenotypic and functional heterogeneity of neutrophils. **FRONT IMMUNOL** 14:1195605. doi: 10.3389/fimmu.2023.1195605

- 5: Olivieri, O, S Gasperini, F Calzetti, E Gardiman, A Castagna, N Martinelli, N Tamassia, and MA Cassatella. **2023**. CD14(+)-Monocytes Exposed to Apolipoprotein CIII Express Tissue Factor. **INT J MOL SCI** 24. doi: 10.3390/ijms24032223
- 6: Gardiman, E, F Bianchetto-Aguilera, S Gasperini, L Tiberio, M Scandola, V Lotti, D Gibellini, V Salvi, D Bosisio, MA Cassatella, and N Tamassia. **2022**. SARS-CoV-2-Associated ssRNAs Activate Human Neutrophils in a TLR8-Dependent Fashion. **CELLS** 11. doi: 10.3390/cells11233785
- 7: Montaldo, E, E Lusito, V Bianchessi, N Caronni, S Scala, L Basso-Ricci, C Cantaffa, A Masserdotti, M Barilaro, S Barresi, M Genua, FM Vittoria, G Barbiera, D Lazarevic, C Messina, E Xue, S Marktel, C Tresoldi, R Milani, P Ronchi, S Gattillo, L Santoleri, R Di Micco, A Ditadi, G Belfiori, F Aleotti, MM Naldini, B Gentner, E Gardiman, N Tamassia, MA Cassatella, A Hidalgo, I Kwok, LG Ng, S Crippa, M Falconi, F Pettinella, P Scapini, L Naldini, F Ciceri, A Aiuti, and R Ostuni. **2022**. Cellular and transcriptional dynamics of human neutrophils at steady state and upon stress. **NATURE IMMUNOLOGY** 23:1470-83. doi: 10.1038/s41590-022-01311-1
- 8: Schioppa, T, HO Nguyen, V Salvi, N Maugeri, F Facchinetti, G Villetti, M Civelli, C Gaudenzi, M Passari, F Sozio, I Barbazza, N Tamassia, MA Cassatella, A Del Prete, D Bosisio, and L Tiberio. **2022**. The PDE4 Inhibitor Tanimilast Restrains the Tissue-Damaging Properties of Human Neutrophils. **INT J MOL SCI** 23. doi: 10.3390/ijms23094982
- 9: Calzetti, F, G Finotti, N Tamassia, F Bianchetto-Aguilera, M Castellucci, S Cane, S Lonardi, C Cavallini, A Matte, S Gasperini, I Signoretto, F Benedetti, M Bonifacio, W Vermi, S Ugel, V Bronte, C Tecchio, P Scapini, and MA Cassatella. **2022**. CD66b(-)CD64(dim)CD115(-) cells in the human bone marrow represent neutrophil-committed progenitors. **NATURE IMMUNOLOGY** 23:679-91. doi: 10.1038/s41590-022-01189-z
- 10: Salvi, V, HO Nguyen, F Sozio, T Schioppa, C Gaudenzi, M Laffranchi, P Scapini, M Passari, I Barbazza, L Tiberio, N Tamassia, C Garlanda, A Del Prete, MA Cassatella, A Mantovani, S Sozzani, and D Bosisio. **2021**. SARS-CoV-2-associated ssRNAs activate inflammation and immunity via TLR7/8. **JCI INSIGHT** 6. doi: 10.1172/jci.insight.150542
- 11: Tamassia, N, F Bianchetto-Aguilera, S Gasperini, S Polletti, E Gardiman, R Ostuni, G Natoli, and MA Cassatella. **2021**. Induction of OCT2 contributes to regulate the gene expression program in human neutrophils activated via TLR8. **CELL REP** 35:109143. doi: 10.1016/j.celrep.2021.109143
- 12: Caldarale, F, M Giacomelli, E Garrafa, N Tamassia, A Morreale, P Poli, S Timpano, G Baresi, F Zunica, M Cattalini, D Moratto, M Chiarini, ES Cannizzo, G Marchetti, MA Cassatella, A Taddio, A Tommasini, and R Badolato. **2021**. Plasmacytoid Dendritic Cells Depletion and Elevation of IFN-gamma Dependent Chemokines CXCL9 and CXCL10 in Children With Multisystem Inflammatory Syndrome. **FRONTIERS IN IMMUNOLOGY** 12:654587. doi: 10.3389/fimmu.2021.654587
- 13: Lonardi, S, F Missale, S Calza, M Bugatti, R Vescovi, B Debora, R Uppaluri, AM Egloff, D Mattavelli, D Lombardi, L Benerini Gatta, O Marini, N Tamassia, E Gardiman, MA Cassatella, P Scapini, P Nicolai, and W Vermi. **2021**. Tumor-associated neutrophils (TANs) in human carcinoma-draining lymph nodes: a novel TAN compartment. **CLIN TRANSL IMMUNOLOGY** 10:e1252. doi: 10.1002/cti2.1252

- 14: Russignan, A, G Dal Collo, A Bagnato, N Tamassia, M Bugatti, M Belleri, L Lorenzi, E Borsi, R Bazzoni, M Gottardi, C Terragna, W Vermi, A Giacomini, M Presta, MA Cassatella, M Krampera, and C Tecchio. **2020**. Targeting the Endothelin-1 Receptors Curtails Tumor Growth and Angiogenesis in Multiple Myeloma. **FRONT ONCOL** 10:600025. doi: 10.3389/fonc.2020.600025
- 15: Dotta, L, D Vairo, M Giacomelli, D Moratto, N Tamassia, W Vermi, S Lonardi, JL Casanova, J Bustamante, S Giliani, and R Badolato. **2020**. Transient Decrease of Circulating and Tissue Dendritic Cells in Patients With Mycobacterial Disease and With Partial Dominant IFN γ R1 Deficiency. **FRONTIERS IN IMMUNOLOGY** 11:1161. doi: 10.3389/fimmu.2020.01161
- 16: Cassatella, MA, E Gardiman, F Arruda-Silva, F Bianchetto-Aguilera, S Gasperini, M Bugatti, W Vermi, F Larousserie, O Devergne, and N Tamassia. **2020**. Human neutrophils activated by TLR8 agonists, with or without IFN γ , synthesize and release EBI3, but not IL-12, IL-27, IL-35, or IL-39. **JOURNAL OF LEUKOCYTE BIOLOGY** 108:1515-26. doi: 10.1002/JLB.3MA0520-054R
- 17: Bianchetto-Aguilera, F, N Tamassia, S Gasperini, F Calzetti, G Finotti, E Gardiman, R Montioli, D Bresciani, W Vermi, and MA Cassatella. **2020**. Deciphering the fate of slan(+) -monocytes in human tonsils by gene expression profiling. **FASEB JOURNAL : OFFICIAL PUBLICATION OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY** 34:9269-84. doi: 10.1096/fj.202000181R
- 18: Tamassia, N, MA Cassatella, and F Bazzoni. **2020**. Fast and Accurate Quantitative Analysis of Cytokine Gene Expression in Human Neutrophils by Reverse Transcription Real-Time PCR. **METHODS IN MOLECULAR BIOLOGY** 2087:243-60. doi: 10.1007/978-1-0716-0154-9_19
- 19: Cassatella, MA, NK Ostberg, N Tamassia, and O Soehnlein. **2019**. Biological Roles of Neutrophil-Derived Granule Proteins and Cytokines. **TRENDS IN IMMUNOLOGY** 40:648-64. doi: 10.1016/j.it.2019.05.003
- 20: Todaro, F, N Tamassia, M Pinelli, D Moratto, L Dotta, A Grassi, F Consonni, M Giacomelli, P Lionetti, E Gardiman, MA Cassatella, E Gambineri, RB Canani, and R Badolato. **2019**. Multisystem autoimmune disease caused by increased STAT3 phosphorylation and dysregulated gene expression. **HAEMATOLOGICA** 104:e322-e5. doi: 10.3324/haematol.2018.202374
- 21: Tamassia, N, F Arruda-Silva, HL Wright, RJ Moots, E Gardiman, F Bianchetto-Aguilera, S Gasperini, M Capone, L Maggi, F Annunziato, SW Edwards, and MA Cassatella. **2019**. Human neutrophils activated via TLR8 promote Th17 polarization through IL-23. **JOURNAL OF LEUKOCYTE BIOLOGY** 105:1155-65. doi: 10.1002/JLB.MA0818-308R
- 22: Mariotti, B, NH Servaas, M Rossato, N Tamassia, MA Cassatella, M Cossu, L Beretta, M van der Kroef, T Radstake, and F Bazzoni. **2019**. The Long Non-coding RNA NRIR Drives IFN-Response in Monocytes: Implication for Systemic Sclerosis. **FRONTIERS IN IMMUNOLOGY** 10:100. doi: 10.3389/fimmu.2019.00100

- 23: Cordani, M, G Butera, I Dando, M Torrens-Mas, E Butturini, R Pacchiana, E Oppici, C Cavallini, S Gasperini, N Tamassia, M Nadal-Serrano, M Coan, D Rossi, G Gaidano, M Caraglia, S Mariotto, R Spizzo, P Roca, J Oliver, MT Scupoli, and M Donadelli. **2018**. Mutant p53 blocks SESN1/AMPK/PGC-1alpha/UCP2 axis increasing mitochondrial O2- production in cancer cells. **BRITISH JOURNAL OF CANCER** 119:994-1008. doi: 10.1038/s41416-018-0288-2
- 24: Tamassia, N, F Bianchetto-Aguilera, F Arruda-Silva, E Gardiman, S Gasperini, F Calzetti, and MA Cassatella. **2018**. Cytokine production by human neutrophils: Revisiting the "dark side of the moon". **EUROPEAN JOURNAL OF CLINICAL INVESTIGATION** 48 Suppl 2:e12952. doi: 10.1111/eci.12952
- 25: Russignan, A, C Spina, N Tamassia, A Cassaro, A Rigo, A Bagnato, L Rosano, A Bonalumi, M Gottardi, L Zanatta, A Giacomazzi, MT Scupoli, M Tinelli, U Salvadori, F Mosna, A Zamo, MA Cassatella, F Vinante, and C Tecchio. **2019**. In reply to Schafer et al: new evidence on the role of endothelin-1 axis as a potential therapeutic target in multiple myeloma. **BRITISH JOURNAL OF HAEMATOLOGY** 184:1052-5. doi: 10.1111/bjh.15240
- 26: Tamassia, N, F Arruda-Silva, F Calzetti, S Lonardi, S Gasperini, E Gardiman, F Bianchetto-Aguilera, LB Gatta, G Girolomoni, A Mantovani, W Vermi, and MA Cassatella. **2018**. A Reappraisal on the Potential Ability of Human Neutrophils to Express and Produce IL-17 Family Members In Vitro: Failure to Reproducibly Detect It. **FRONTIERS IN IMMUNOLOGY** 9:795. doi: 10.3389/fimmu.2018.00795
- 27: Calzetti, F, N Tamassia, A Micheletti, G Finotti, F Bianchetto-Aguilera, and MA Cassatella. **2018**. Human dendritic cell subset 4 (DC4) correlates to a subset of CD14(dim-)/CD16(++) monocytes. **THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY** 141:2276-9 e3. doi: 10.1016/j.jaci.2017.12.988
- 28: Finotti, G, N Tamassia, and MA Cassatella. **2017**. Interferon-lambdas and Plasmacytoid Dendritic Cells: A Close Relationship. **FRONTIERS IN IMMUNOLOGY** 8:1015. doi: 10.3389/fimmu.2017.01015
- 29: Russignan, A, C Spina, N Tamassia, A Cassaro, A Rigo, A Bagnato, L Rosano, A Bonalumi, M Gottardi, L Zanatta, A Giacomazzi, MT Scupoli, M Tinelli, U Salvadori, F Mosna, A Zamo, MA Cassatella, F Vinante, and C Tecchio. **2017**. Endothelin-1 receptor blockade as new possible therapeutic approach in multiple myeloma. **BRITISH JOURNAL OF HAEMATOLOGY** 178:781-93. doi: 10.1111/bjh.14771
- 30: Arruda-Silva, F, F Bianchetto-Aguilera, S Gasperini, S Polletti, E Cosentino, N Tamassia, and MA Cassatella. **2017**. Human Neutrophils Produce CCL23 in Response to Various TLR-Agonists and TNFalpha. **FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY** 7:176. doi: 10.3389/fcimb.2017.00176
- 31: Rodenas, MC, N Tamassia, I Cabas, F Calzetti, J Meseguer, MA Cassatella, A Garcia-Ayala, and V Mulero. **2017**. G Protein-Coupled Estrogen Receptor 1 Regulates Human Neutrophil Functions. **BIOMED HUB** 2:1-13. doi: 10.1159/000454981
- 32: Tabellini, G, D Vairo, O Scomodon, N Tamassia, RM Ferraro, O Patrizi, S Gasperini, A Soresina, G Giardino, C Pignata, V Lougaris, A Plebani, L Dotta, MA Cassatella, S Parolini, and R Badolato. **2017**. Impaired natural killer cell functions in

patients with signal transducer and activator of transcription 1 (STAT1) gain-of-function mutations. **THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY** 140:553-64 e4. doi: 10.1016/j.jaci.2016.10.051

33: Marini, O, S Costa, D Bevilacqua, F Calzetti, N Tamassia, C Spina, D De Sabata, E Tinazzi, C Lunardi, MT Scupoli, C Cavallini, E Zoratti, I Tinazzi, A Marchetta, A Vassanelli, M Cantini, G Gandini, A Ruzzenente, A Guglielmi, F Missale, W Vermi, C Tecchio, MA Cassatella, and P Scapini. **2017**. Mature CD10(+) and immature CD10(-) neutrophils present in G-CSF-treated donors display opposite effects on T cells. **BLOOD** 129:1343-56. doi: 10.1182/blood-2016-04-713206

34: Calzetti, F, N Tamassia, F Arruda-Silva, S Gasperini, and MA Cassatella. **2017**. The importance of being "pure" neutrophils. **THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY** 139:352-5 e6. doi: 10.1016/j.jaci.2016.06.025

35: Finotti, G, N Tamassia, and MA Cassatella. **2016**. Synergistic production of TNFalpha and IFNalpha by human pDCs incubated with IFNlambda3 and IL-3. **CYTOKINE** 86:124-31. doi: 10.1016/j.cyto.2016.08.005

36: Ostuni, R, G Natoli, MA Cassatella, and N Tamassia. **2016**. Epigenetic regulation of neutrophil development and function. **SEMINARS IN IMMUNOLOGY** 28:83-93. doi: 10.1016/j.smim.2016.04.002

37: Dotta, L, O Scomodon, R Padoan, S Timpano, A Plebani, A Soresina, V Lougaris, D Concolino, A Nicoletti, G Giardino, A Licari, G Marseglia, C Pignata, N Tamassia, F Facchetti, D Vairo, and R Badolato. **2016**. Clinical and immunological data of nine patients with chronic mucocutaneous candidiasis disease. **DATA IN BRIEF** 7:311-5. doi: 10.1016/j.dib.2016.02.040

38: Giacomelli, M, R Kumar, A Soresina, N Tamassia, T Lorenzini, D Moratto, S Gasperini, M Cassatella, A Plebani, V Lougaris, and R Badolato. **2016**. Reduction of CRKL expression in patients with partial DiGeorge syndrome is associated with impairment of T-cell functions. **THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY** 138:229-40 e3. doi: 10.1016/j.jaci.2015.10.051

39: Zimmermann, M, F Arruda-Silva, F Bianchetto-Aguilera, G Finotti, F Calzetti, P Scapini, C Lunardi, MA Cassatella, and N Tamassia. **2016**. IFNalpha enhances the production of IL-6 by human neutrophils activated via TLR8. **SCIENTIFIC REPORTS** 6:19674. doi: 10.1038/srep19674

40: Dotta, L, O Scomodon, R Padoan, S Timpano, A Plebani, A Soresina, V Lougaris, D Concolino, A Nicoletti, G Giardino, A Licari, G Marseglia, C Pignata, N Tamassia, F Facchetti, D Vairo, and R Badolato. **2016**. Clinical heterogeneity of dominant chronic mucocutaneous candidiasis disease: presenting as treatment-resistant candidiasis and chronic lung disease. **CLINICAL IMMUNOLOGY** 164:1-9. doi: 10.1016/j.clim.2015.12.010

41: Martin, C, D Ohayon, M Alkan, J Mocek, M Pederzoli-Ribeil, C Candalh, G Thevenot, A Millet, N Tamassia, MA Cassatella, N Thieblemont, PR Burgel, and V Witko-Sarsat. **2016**. Neutrophil-Expressed p21/waf1 Favors Inflammation Resolution in *Pseudomonas aeruginosa* Infection. **AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY** 54:740-50. doi: 10.1165/rcmb.2015-0047OC

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