

CV Marzia Rossato



PERSONAL INFORMATION

Name: Marzia
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Date of birth: December 18, 1981
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LANGUAGES: Italian and English, fluently

QUALIFIED as Associate Professor “Fascia 2” on 5/12/2017 (Domanda 58281) – Settore Concorsuale 05/11 - GENETICA.

WORK EXPERIENCES AND EDUCATION

April 2018 - present: RTDB Researcher (BIO/18 Genetics) – staff member at the University of Verona, Department of Biotechnology.

May 2016 - present: Visiting Researcher at the University Medical Centre Utrecht (UMCU), Laboratory of Translational Immunology, The Netherlands.

May 2016 – March 2018: Research Associate in the group of Prof. Delledonne, Dpt. of Biotechnology, University of Verona, Italy.

March 2014- April 2016: Marie Curie IEF Post-doctoral fellow in the group of Prof. Radstake, Laboratory of Translational Immunology, University Medical Centre Utrecht (UMCU), The Netherlands.

September 2012-February 2014: Post-doc in the group of Prof. Radstake, Laboratory of Translational Immunology, University Medical Centre Utrecht (UMCU), The Netherlands.

January 2011 – August 2012: Post-doc in the group of Prof. Bazzoni at the Section of General Pathology, Medical School of the University of Verona, Italy.

January 2009 – December 2010: Awarded with a two-years post-doctoral fellowship by the "Italian Association for Cancer Research - AIRC", at the Section of General Pathology, Medical School of the University of Verona, Italy.

October 2005 – December 2008: PhD in "Biomedical & Translational Science - Cellular and Molecular Biology and Pathology" at the Section of General Pathology, Medical School of the University of Verona, Italy, under the supervision of Prof. F. Bazzoni. Thesis title: "IL-10 and miRNAs as modulators of gene expression in lipopolysaccharide-activated neutrophils and monocytes".

September 2003-October 2005: Master degree in Industrial Biotechnology at the University of Padova, with the grading 110/110 cum laude. Thesis on "Molecular mechanisms of apoptosis induced by vacuolating cytotoxin of Helicobacter pylori, VacA", under the supervision of Dr. M. de Bernard.

September 2000-September 2003: Bachelor degree in Biotechnology at the University of Padova with the grading 107/110. Thesis on "Modeled Microgravity effects on DNA damages repair induced by X-rays, in human lymphocytes".

ADVANCED COURSES

September 19- 23, 2016: Advanced course on the **generation of Optical Maps, sample preparation and data analysis**, at Bionano Genomics, San Diego (USA).

October 30-November 1, 2013: **RNAseq advanced data analysis course**, organized by the Netherlands Bioinformatic centre at the University of Leiden (The Netherlands).

August 28–30, 2013: Basic course in **Next generation sequencing (NGS) data analysis** at the University Medical Centre Utrecht (The Netherlands).

April 15-19, 2013: International course: "**Molecular Epidemiology of Chronic diseases**". Organized by Maastricht University (The Netherlands).

June 27-29, 2011: EMBL advanced course: "**Whole transcriptome data analysis**", focused on the integration of miRNA and mRNA profiling data in order to identify miRNA target genes. Organized by EMBO, Heidelberg (Germany).

April 10-16, 2010: EMBO practical course: “**microRNA profiling: from in-situ hybridization to new-generation sequencing**”, focused on the major highthroughput techniques used for miRNA expression profiling. Monterotondo (Italy).

2007- 2010: **Immunology courses:** “Innate immunity in the pathogenesis of immune-mediated human disease” (2010), “Host-pathogen interaction: recognition and escape” (2009), “Inflammation and cancer” (2007), at the Clinical Research Institute Humanitas, Milan (Italy).

RESEARCH INTERESTS

Since my PhD, I had the opportunity to diversify my expertise with complementary skills that range from cell biology and immunology to **epigenetics and genetics, either in basic or translational/applied research**. Despite this diversification, the common thread of my investigations has been always the regulation of gene activity by genetic and epigenetic factors. These studies allowed me to implement the **most advanced genomic techniques, either targeted or high-throughput, as those based on next-generation-sequencing, for example RNAseq and Chipseq, and more recently also Optical Mapping**.

Regulation of Innate Immunity by microRNAs: As postdoc at the Department of Pathology in Verona, my studies focused on the molecular mechanisms mediated by miRNAs regulating gene expression in monocytes and neutrophils, after the exposure to pro- and anti-inflammatory stimuli. My investigations were pioneer in the study of microRNAs in primary human monocytes and led to the characterization of the first miRNA profile in these cells and to the identification of two novel miRNAs involved in the negative regulation of inflammatory response, including the first IL-10-induced miRNA, miR-187.

Transcriptional Gene Regulation in Innate Immunity: From 2005 to 2012, I contributed as first author or as collaborator to studies investigating how by pro- and anti-inflammatory stimuli (LPS and IL-10) modulate gene expression at the transcriptional level. These studies led to the **characterization of chromatin remodeling** involved in the regulation of cytokine transcription in response to IL-10 and LPS in human neutrophils and monocytes.

Circulating microRNAs as Biomarkers: From 2011, both as principal investigator or in collaboration, I studied the profiles of miRNAs circulating in biological fluids (serum, plasma, urine) with the aim to identify potential biomarkers for specific pathological conditions or for the response to therapies.

Epigenetic Aberrances in Autoimmunity: From 2012 to 2016 as a senior post-doc, and presently as “Visiting Researcher”, I’m leading research projects at the UMC Utrecht (The Netherlands) aimed at identifying the altered epigenetic mechanisms involved in the pathogenesis of autoimmune diseases, with a particular focus on Systemic Sclerosis.

These studies led to the characterization, even at the functional level, of several aberrant miRNAs in monocytes and dendritic cells of patients affected by Systemic Sclerosis and Sjögren syndrome.

Thanks to the collaboration with Prof. F. Bazzoni (Verona), I'm extending these analysis to the long-non-coding RNAs of dendritic cells and monocytes, and their possible implication in the pathogenesis Scleroderma.

Thanks to a financed project (Reumafonds 14-3-403), **I could characterize the aberrant profile of chromatin marks on promoters and enhancers of monocytes from Scleroderma patients and its implication on the altered gene expression in these cells in comparison to healthy condition.**

Impact of Genetic Variants on Gene Expression: To complement my epigenetic background with genetic expertise, in May 2016 I have moved back to Italy in the Functional Genomics Laboratory leaded by Prof. Delledonne. In this context, I expanded my investigations on autoimmunity analysing how Scleroderma-associated SNPs can influence gene expression.

In addition, I'm responsible of the research line investigating **genomes and structural variations**. These studies are conducted on patients affected by complex congenital disorders, even characterized by chromotripsis events, and are aimed at identifying **how structural variations can influence the activity of promoters and enhancers and thus condition the expression of related genes**.

In order to study these complex genetic variations, I apply the most advanced genomic technologies, including **third generation sequencing techniques** (long synthetic reads and Single Molecule Real Time Sequencing), as well as **OPTICAL MAPPING**. The latter analysis is performed on the only instrument present in Italy for the generation of high-throughput optical maps (Irys by Bionano Genomics), for which I have received extensive training (see specific section and certificate attached).

Thanks to the fact that this long-range technology overcomes historical issues in genomic analysis, e.g. the assembly of low-complexity or repetitive regions, I also collaborate at different projects focused on the genome assembly and annotation for organisms with agro-industrial relevance.

TEACHING/TUTORING EXPERIENCES

- 2018-2019: **Course of Genomics**, Master's degree in Agri-Food Biotechnology, 48h
Course of Research-Inspired Laboratory, Master's degree in Molecular and medical biotechnology, 12h
- 2013-2016 **Lessons** at the bachelor course in Clinical Immunology, UMC Utrecht: "Epigenetics in Immune Regulation".
- 2015 **Masterclass** for PhD students in Infection & Immunity, UMC Utrecht: "miRNAs in the regulation of immune response and autoimmunity"
- 2005-2012 **Laboratory practices** for undergraduate students and lectures on the experimental approaches currently available for the analysis of gene expression (University of Verona).
- 2009-2010 Tutor: **Barbara Mariotti**, Laurea Triennale in Tecnico di Laboratorio Biomedico, University of Verona.
- 2011-2012 Tutor: **Barbara Mariotti**, Laurea Magistrale in Bioinformatica e Biotecnologie Mediche, University of Verona, thesis: "IL-10-induced microRNA-187 negatively regulates TNFa production in LPS-stimulated human monocytes"

- 2012-2013 Tutor: **Femke Wolters**, Master Student in Infection and Immunity course, UMC Utrecht, thesis: "miR-618 underlies plasmacytoid dendritic cell dysfunction in systemic sclerosis".
- 2014-2015 Tutor: **Nila Servaas**, bachelor student of the Drug Innovation course, UMC Utrecht, thesis: "Circulating Micrornas In Systemic Sclerosis".
- 2016 Tutor: **Nila Servaas**, master student of the Drug Innovation course, UMC Utrecht, thesis: "Decoding the Noncoding: Characterization of Long-Noncoding RNAs in Monocytes of Systemic Sclerosis patients".
- 2013-2016 Tutor: **Eleni Chouri and Maarten van Der Kroef**, PhD students of the Infection and Immunity course, UMC Utrecht.

FINANCED RESEARCH PROJECTS

- 2015-2017: Reumafonds grant, "Battling monocyte misbehavior by normalizing epigenetic alterations as an early intervention in systemic sclerosis", Project ID: 14-3-403. **230.000€**
- 2014-2015: Marie Curie IEF, "MicroRNA targeting to achieve Systemic Sclerosis Control and Prediction". Project ID: 622811, MicroSCAP. **176.000€**

In June 2015, I have been PI and consortium coordinator for a European Project – EracoSysMed call: "A systems medicine approach to eradicate derailed plasmacytoid dendritic cells before the onset of systemic sclerosis", that however was not financed. ERADYSIS-projectID25.

PUBLICATIONS (up to 1 August 2018)

Official H index: 15

Average Citation per Item: 15,93

Total Citations (without self-citation): 913

- 1) Cuppen BVJ*, **Rossato M***, et al.. [RNA sequencing to predict response to TNF- \$\alpha\$ inhibitors reveals possible mechanism for nonresponse in smokers](#). Expert Rev Clin Immunol. 2018 Jun 6:1-11. * **equal contribution**
- 2) van den Hoogen LL, **Rossato M**, et al. [microRNA downregulation in plasmacytoid dendritic cells in interferon-positive systemic lupus erythematosus and antiphospholipid syndrome](#). Rheumatology (Oxford). 2018 Jun 4.
- 3) Lopes AP, Hillen MR, Chouri E, Blokland SLM, Bekker CPJ, Kruize AA, **Rossato M**, van Roon JAG, Radstake TRDJ. [Circulating small non-coding RNAs reflect IFN status and B cell hyperactivity in patients with primary Sjögren's syndrome](#). PLoS One. 2018 Feb 15;13(2):e0193157. **IF: 3.54**
- 4) Verhagen FH, Bekker CPJ, **Rossato M**, Hiddingh S, de Vries L, Devaprasad A, Pandit A, Ossewaarde-van Norel J, Ten Dam N, Moret-Pot MCA, Imhof SM, de Boer JH, Radstake TRDJ, Kuiper JJW. [A Disease-Associated MicroRNA Cluster Links Inflammatory Pathways and an Altered Composition of Leukocyte Subsets to Noninfectious Uveitis](#). Invest Ophthalmol Vis Sci. 2018 Feb 1;59(2):878-888.

- 5) Kurtas N, Arrigoni F, Errichiello E, Zucca C, Maghini C, D'Angelo MG, Beri S, Giorda R, Bertuzzo S, Delledonne M, Xumerle L, **Rossato M**, Zuffardi O, Bonaglia MC. [Chromothripsis and ring chromosome 22: a paradigm of genomic complexity in the Phelan-McDermid syndrome \(22q13 deletion syndrome\)](#). J Med Genet. 2018 Jan 29. **IF: 5.751**
- 6) Errichiello E, Gorgone C, Giuliano L, Iadarola B, Cosentino E, **Rossato M**, Kurtas NE, Delledonne M, Mattina T, Zuffardi O. SOX2: [Not always eye malformations. Severe genital but no major ocular anomalies in a female patient with the recurrent c.70del20 variant](#). Eur J Med Genet. 2018 Jan 25.
- 7) Chouri E, Servaas NH, Bekker CPJ, Affandi AJ, Cossu M, Hillen MR, Angiolilli C, Mertens JS, van den Hoogen LL, Silva-Cardoso S, van der Kroef M, Vazirpanah N, Wichers CGK, Carvalheiro T, Blokland SLM, Giovannone B, Porretti L, Marut W, Vigone B, van Roon JAG, Beretta L, **Rossato M***, Radstake TRDJ*. [Serum microRNA screening and functional studies reveal miR-483-5p as a potential driver of fibrosis in systemic sclerosis](#). J Autoimmun. 2018 Jan 19. ***equal last contribution IF: 7.48**
- 8) Cossu M, van Bon L, Preti C, **Rossato M**, Beretta L, Radstake TRDJ. [Earliest Phase of Systemic Sclerosis Typified by Increased Levels of Inflammatory Proteins in the Serum](#). Arthritis Rheumatol. 2017 Dec;69(12):2359-2369. **IF: 7.76**
- 9) Michele Menegon M, Cantaloni C, Rodriguez-Prieto A, Centomo C, Abdelfattah A, **Rossato M**, Bernardi M, Xumerle L, Loader S, Delledonne M. "On site DNA barcoding by nanopore sequencing Portable sequencing laboratory based on MinION". PLoS One. 2017 Oct 4;12(10):e0184741. **IF: 3.54**
- 10) **Rossato M**, Affandi AJ, Thordardottir S, Wichers CGK, Cossu M, Broen JCA, Moret FM, Bossini-Castillo L, Chouri E, van Bon L, Wolters F, Marut W, van der Kroef M, Silva-Cardoso S, Bekker CPJ, Dolstra H, van Laar JM, Martin J, van Roon JAG, Reedquist KA, Beretta L, Radstake TRDJ. ["Association of microRNA-618 Expression With Altered Frequency and Activation of Plasmacytoid Dendritic Cells in Patients With Systemic Sclerosis."](#) Arthritis Rheumatol. 2017 Sep;69(9):1891-1902. **IF: 7.76**
- 11) Vazirpanah N, Kienhorst LBE, Van Lochem E, Wichers C, **Rossato M**, Shiels PG, Dalbeth N, Stamp LK, Merriman TR, Janssen M, Radstake TRDJ, Broen JC. ["Patients with gout have short telomeres compared with healthy participants: association of telomere length with flare frequency and cardiovascular disease in gout"](#). Ann Rheum Dis. 2017 Jul;76(7):1313-1319. **IF: 12.38**
- 12) Budding K, **Rossato M**, van de Graaf EA, Kwakkel-van Erp JM, Radstake TRDJ, Otten HG. ["Serum miRNAs as potential biomarkers for the bronchiolitis obliterans syndrome after lung transplantation"](#). Transpl Immunol. 2017 Jun;42:1-4. **IF: 1.78**
- 13) Audia S, **Rossato M**, Trad M, Samson M, Santegoets K, Bekker C, Facy O, Cheynel N, Ortega-Deballon P, Berthier S, Leguy-Seguin V, Martin L, Ciudad M, Lorcerie B, Janikashvili N, Saas P, Radstake TRDJ and Bonnotte B. ["B cell depleting therapy regulates splenic and circulating TFH in immune thrombocytopenia"](#). J Autoimmun. 2017 Feb;77:89-95. Feb;77:89-95. **IF: 7.6**
- 14) Cuppen BVJ, **Rossato M**, Fritsch-Stork R, Concepcion AN, Schenk Y, Bijlsma JWJ, Radstake TDRJ, Lafeber F. ["Can baseline serum microRNAs predict response to TNF-alpha inhibitors in rheumatoid arthritis?"](#). Arthritis Res Ther. 2016 Aug 24;18:189. **IF: 3.8**
- 15) Castellucci M, **Rossato M**, Calzetti F, Tamassia N, Zeminian S, Cassatella MA, Bazzoni F. ["IL-10 disrupts the Brd4-docking sites to inhibit LPS-induced CXCL8 and TNF-alpha expression in monocytes: Implications for chronic obstructive pulmonary disease"](#). J Allergy Clin Immunol. 2015 Jun 1. **IF: 12.48**
- 16) Zimmermann M, Aguilera FB, Castellucci M, **Rossato M**, Costa S, Lunardi C, Ostuni R, Girolomoni G, Natoli G, Bazzoni F, Tamassia N, Cassatella MA. ["Chromatin remodelling and autocrine TNFalpha are](#)

- [required for optimal interleukin-6 expression in activated human neutrophils](#)". *Nat Commun.* 2015 Jan 23;6:6061 **IF: 12.12**
- 17) Broen JC, Radstake TR, **Rossato M** "[The role of genetics and epigenetics in the pathogenesis of systemic sclerosis](#)". *Nat Rev Rheumatol.* 2014 Nov;10(11):671-681. **IF 12.18**
- 18) Audia S, **Rossato M**, Santeogoets K, Spijkers S, Wichers C, Bekker C, Bloem A, Boon L, Flinsenberg T, Compeer E, van den Broek T, Facy O, Ortega-Deballon P, Berthier S, Leguy-Seguin V, Martin L, Ciudad M, Samson M, Trad M, Lorcerie B, Janikashvili N, Saas P, Bonnotte B, Radstake TR. "[Splenic TFH expansion participates in B-cell differentiation and antiplatelet-antibody production during immune thrombocytopenia](#)". *Blood.* 2014 Oct 30;124(18):2858-66. **IF: 11.84**
- 19) Channavajjhala SK*, **Rossato M***, Morandini F, Castagna A, Pizzolo F, Bazzoni F and Olivieri O. "[Optimizing the purification and analysis of miRNAs from urinary exosomes](#)" ***equal contribution.** *Clin Chem Lab Med.* 2014 Mar;52(3):345-54 **IF: 3.00**
- 20) Curtale G, Mirolo M, Renzi TA, **Rossato M**, Bazzoni F, Locati M. "[Negative regulation of Toll-like receptor 4 signaling by IL-10-dependent microRNA-146b](#)". *PNAS* 2013 Jul 9;110(28):11499-504. **IF: 9.4**
- 21) **Rossato M**, Curtale G, Tamassia N, Castellucci M, Mori L, Gasperini S, Mariotti B, De Luca M, Mirolo M, Cassatella MA, Locati M, and Bazzoni F. "[IL-10-induced microRNA-187 negatively regulates TNF \$\alpha\$, IL-6 and IL-12p40 production in TLR4-stimulated monocytes](#)". *PNAS, vol. 6, Nov 2012, p.109* **IF: 9.4**
- 22) Davey MS, Tamassia N, **Rossato M**, Bazzoni F, Calzetti F, Bruderek K, Sironi M, Zimmer L, Bottazzi B, Mantovani A, Brandau S, Moser B, Eberl M, Cassatella MA. "[Failure to detect production of IL-10 by activated human neutrophils](#)". *Nat Immunol.* Oct 19;12(11):1017-8, 2011. **IF: 21.5**
- 23) Bazzoni F, Tamassia N, **Rossato M**, Cassatella MA. "[Understanding the molecular mechanisms of the multifaceted IL-10-mediated anti-inflammatory response: lessons from neutrophils](#)". *Eur J Immunol.*, vol. 40, 2360-2368, 2010. **IF: 4.23**
- 24) Tamassia N, Castellucci M, **Rossato M**, Gasperini S, Bosisio D, Giacomelli M, Badolato R, Cassatella MA and Bazzoni F. "[Uncovering an IL-10-dependent NF-kB recruitment to the IL-1ra promoter that is impaired in STAT3 functionally defective patients](#)", *FASEB journal*, vol.24, pp.1365-1375, 2010. **IF: 5.5**
- 25) Calore F, Genisset C, Casellato A, **Rossato M**, Codolo G, Esposti MD, Scorrano L, de Bernard M. "[Endosome-mitochondria juxtaposition during apoptosis induced by H. pylori VacA](#)". *Cell Death Differ.* vol.17, 1707-1716, 2010. **IF: 8.339**
- 26) Bazzoni F, **Rossato M**, Fabbri M, Gaudiosi D, Mirolo M, Mori L, Tamassia N, Mantovani A, Cassatella MA, Locati M. "[Induction and regulatory function of miR-9 in human monocytes and neutrophils exposed to proinflammatory signals](#)". *PNAS*, vol. 106 (13) pp. 5282-5287, 2009. **IF: 9.4**
- 27) Bortesi L, **Rossato M**, Schuster F, Raven N, Stadlmann J, Avesani L, Falorni A, Bazzoni F, Bock R, Schillberg S, Pezzotti M. "[Viral and murine interleukin-10 are correctly processed and retain their biological activity when produced in tobacco](#)". *BMC Biotechnol*, vol. 19, pp. 9-22, 2009. **IF: 2.45**
- 28) Tamassia N, Calzetti F, Menestrina N, **Rossato M**, Bazzoni F, Gottin L, and Cassatella MA. "[Circulating neutrophils of septic patients constitutively express interleukin-10R1 \(IL-10R1\) and are promptly responsive to IL-10](#)", *Int. Immunol*, vol. 20 (4), pp. 535-541, 2008. **IF: 3.75**

- 29) Tamassia N, Le Moigne V, **Rossato M**, Donini M, McCartney S, Calzetti F, Colonna M, Bazzoni F, Cassatella MA. "[Activation of an immunoregulatory and antiviral gene expression program in poly\(I:C\)-transfected human neutrophils](#)" *J.Immunol*, vol. 181(9), pp. 6563-73, 2007. **IF: 4.98**
- 30) **Rossato M**, Cencig S, Gasperini S, Cassatella MA, Bazzoni F. "[IL-10 modulates cytokine gene transcription by protein synthesis-independent and dependent mechanisms in lipopolysaccharide-treated neutrophils](#)", *Eur.J.Immunol*, vol. 37(11), pp. 3176-89, 2007. **IF: 4.23**

MANUSCRIPTS IN REVISION

- 31) Marta Cossu, Lorenzo Beretta, Elena Trombetta, Sandra T.A. van Bijnen, **Marzia Rossato**, Lenny van Bon, Maarten van der Kroef, Eleni Chouri, Catharina G. K. Wichers, Nadia Vazirpanah, Madelon C. Vonk, Laura Porretti, Frank Preijers, Harry Dolstra, Timothy R.D.J. Radstake. "NK and NKT-like cell phenotyping suggests defective immune-regulatory capability in patients with systemic sclerosis". In revision in *Rheumatology*, manuscript ID RHE-17-0763, **IF 4.818**
- 32) Ingrid E.M. Bank, Janine C. Deddens, Gerard Pasterkamp, Dominique P.V. de Kleijn, Geertje W. Dalmeijer, Hester M. den Ruijter, Leonie A. Boven, John M. H. de Klerk, Dennie Tempel, **Marzia Rossato**, Cornelis P.J. Bekker, Arend Mosterd, Joost P.G. Sluijter, Leo Timmers. "Circulating microRNAs as diagnostic biomarkers for myocardial ischemia in stable outpatients: not fulfilling the expectation". In revision in *The Journal of Cardiology*. **IF 3.154**

MANUSCRIPTS IN PREPARATIONS

- 33) M. van der Kroef, M. Castellucci, M. Mokry, M. Cossu, F. Bazzoni, T.R.D.J. Radstake*, **M. Rossato***. "Histone modifications are associated with aberrant expression of interferon responsive genes in monocytes of systemic sclerosis patients". ***equal last contribution**
- 34) Chouri E, Cossu M, Beretta L, Nikitopoulou K, Drylewicz J, van Bon L, Kommer-Wichers R, **Rossato M*** and Radstake TRDJ*. "Targeting miRNAs in plasmacytoid DCs to predict and cease Systemic Sclerosis development". ***equal last contribution**
- 35) Hillen MR, Blokland SLM, Chouri E, Kruize AA, Hack CE, Lafeber FPJG, Radstake TRDJ, **Rossato M**, van Roon JAG. "Two miRNAs are downregulated in type-1 classical DCs of primary Sjögren's syndrome patients, indicating dysregulated membrane trafficking and signalling pathways".
- 36) Hillen MR, Chouri E, Blokland SLM, Kruize AA, Hack CE, Lafeber FPJG, Radstake TRDJ, **Rossato M**, van Roon JAG. "Dysregulated transcriptome in plasmacytoid DCs of primary Sjögren's syndrome patients indicates alterations in signalling and cell cycle".
- 37) Curtale G, Renzi TA, Mirolo M, Albanese M, De Luca MC, **Rossato M**, Bazzoni F, Locati M. "Multi-step regulation of Toll-like-receptor signaling by the miR-125a~99b~let-7e cluster".

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS AS INVITED SPEAKER

1. Nanopore Day 2017, Milan, 28th Sept 2017. "On site DNA barcoding by Nanopore sequencing"
2. Convivio sull'ereditarietà e XIV AIFEG, Verona, 10-12 Nov 2016. "Nuove metodiche per lo studio genico, epigenetico e genomico".
3. SMRT meeting, Leiden, 2-3 May 2017. "Optical Mapping for whole-genome assembly and characterization of structural variations".
4. 2° Autoimmunity and Immunodeficiency day. Verona, 14 Oct 2016. "Epigenetic aberrances in the dysregulation of immune system: lessons from Systemic Sclerosis".
5. Dutch National Workgroup Immunodeficiencies, Amsterdam, 24 June 2016. "Epigenetic aberrances in the dysregulation of immune system: lessons from Systemic Sclerosis".

PRESENTATIONS AT SCIENTIFIC MEETINGS

6. **Marzia Rossato**, Luca Marcolungo, Aldesia Provenzano, Angelica Pagliuzzi, Luciano Xumerle, Emanuela Cosentino, Sabrina Giglio, Massimo Delledonne. "Integration of next-generation sequencing and optical mapping technology for the characterization of structural variations in chromothripsis events." Submitted for AGBT General Meeting 2018, February 12 – 15, Orlando, Florida, USA.
7. **Marzia Rossato**, Luca Marcolungo, Aldesia Provenzano, Angelica Pagliuzzi, Luciano Xumerle, Emanuela Cosentino, Sabrina Giglio, Massimo Delledonne. "Optical Mapping unravels structural variations in chromothripsis events". AGBT Precision Health Meeting 2017, 14-19 Settembre 2017, Orlando, Florida, USA.
Poster Presentation
8. Michela Cecchin, Luca Marcolungo, **Marzia Rossato**, Emanuela Cosentino, Salvatore Benfatto, Laura Girolomoni, Massimo Delledonne, Matteo Ballottari "Genome assembly and annotation of the green alga *Chlorella vulgaris*". Congresso Società Italiana Genetica Agraria (SIGA) 2017, 19-22 Settembre 2017, Pisa.
Presentation co-author
9. Michela Cecchin, Emanuela Cosentino, Salvatore Benfatto, Luca Marcolungo, **Marzia Rossato**, Stefano Cazzaniga, Nicola Vitulo, Massimo Delledonne, Matteo Ballottari "Differential gene expression analysis of *Chlorella sorokiniana* cultivated in autotrophic vs. mixotrophic conditions reveals fine control of metabolism". Congresso Società Italiana Genetica Agraria (SIGA) 2017, 19-22 Settembre 2017, Pisa.
Presentation co-author
10. Eleni Chouri, Nila Servaas, Lucas L. van den Hoogen, Maarten R. Hillen, C. Angiolilli, Marta Cossu, Lorenzo Beretta, Cornelis P.J. Bekker, Joel A.G.van Roon, **Marzia Rossato*** and Timothy R.D.J. Radstake*. "Circulating miR-483-5p can regulate fibroblasts activation and constitute a potential biomarker for the diagnosis of Systemic Sclerosis". FOCIS 2016, Arizona, USA. ***equal contribution.**
11. M. van der Kroef, M. Castellucci, M. Mokry, M. Cossu, F. Bazzoni, **M. Rossato***, T.R.D.J. Radstake* "Histone modifications are associated with aberrant expression of interferon responsive genes in monocytes of systemic sclerosis patients", NVVI 2015, Dutch Society for Immunology, Noordwijkerhout, 16-17 Dicembre 2015. ***equal contribution** **Presentation co-author**
12. Jasper C Broen, Lenny van Bon, Nick P Rossen, **Marzia Rossato**, Timothy RDJ Radstake "MicroRNAs underlie plasmacytoid dendritic cell dysfunction in systemic sclerosis". 7th European Workshop on

Immune-Mediated Inflammatory Diseases 2012. 28-30 Novembre 2012, Noordwijk aan Zee, Paesi Bassi.

Poster Presentation

13. Rossato M, Broen JC, Rossen NP, van Bon L, Radstake TR. "microRNAs underlie plasmacytoid dendritic cell dysfunction in systemic sclerosis" EULAR 2013, 12-15 MAY 2013, Madrid (Spain).

ORAL Presentation

14. Marzia Rossato, Jasper Broen, Nick Rossen, Lenny van Bon, Timothy Radstake "MicroRNAs underlie plasmacytoid dendritic cell dysfunction in Systemic Sclerosis". EMBO Conference Series Chromatin and Epigenetics 2013, Heidelberg, Germania.

Poster Presentation

15. Rossato M, Broen JC, Rossen NP, van Bon L, Radstake TR. "microRNAs underlie plasmacytoid dendritic cell dysfunction in systemic sclerosis" Netherland Congress of rheumatology (NVR), 26th Septmeber 2013, Arnhem (The Netherlands).

ORAL Presentation

16. Rossato M, Broen JC, Rossen NP, van Bon L, Radstake TR. "microRNAs underlie plasmacytoid dendritic cell dysfunction in systemic sclerosis", 48th ESCI, 30 April – 3 May 2014, Utrecht (The Netherlands).

ORAL Presentation

17. M. Rossato, E. Chouri, M. Cossu, K. Nikitopoulou, J. Drylewicz, L. van Bon, R. Wichers, C. Bekker, J. A. Borghans, L. Beretta, T. R. Radstake; "Targeting microRNAs in plasmatocytoid DCs to predict and cease systemic sclerosis development". 4th European Congress of Immunology (ECI), 6-9 Settembre 2015, Vienna, Austria.

Poster Presentation

18. Rossato M, Bazzoni F, Gaudiosi D, Mirolo M, Fabbri M, Mori L, Tamassia N, Mantovani A, Cassatella MA, Locati M. "A regulatory circuitry involving microRNA-9 and NFκB controls neutrophil and monocyte activation in response to LPS". 2nd ECI, September 13-16, 2009, Berlin (Germany). WSA07/10.

ORAL Presentation

19. Rossato M, Mori L, Locati M, Bazzoni F. A regulatory circuitry involving microRNA-9 and NF-KB controls neutrophils and monocyte activation in response to LPS. TOLL2011, 4-5 Maggio 2011, Riva Del Garda, Italia.

Poster Presentation

20. Rossato M., Curtale G., Castellucci M., Mori L., Gasperini S., Mirolo M., Cassatella M.A., Locati M., Bazzoni F. MicroRNA-187 mediates IL-10 suppression of pro-inflammatory cytokine production by TLR4-stimulated monocytes. 2011 Joint Annual Meeting SIICA, Riccione-Italia, 28 Settembre – 01 Ottobre 2011.

Poster Presentation

21. Rossato M, Tamassia N, Curtale G, Castellucci M, Mori L, Gasperini S, Mirolo M, Cassatella MA, Locati M, and Bazzoni F. "IL-10-induced microRNA-187 inhibits proinflammatory cytokine production by TLR4-stimulated monocytes". 46th ESCI, 22-24 March 2012, Budapest (Hungary). **ORAL Presentation**

22. Rossato M, Curtale G, Castellucci M, Mori L, Gasperini S, Mirolo M, Cassatella MA, Locati M, and Bazzoni F. "microRNA-187 mediates IL-10 suppression of proinflammatory cytokine production by TLR4-stimulated monocytes". 15th International Congress of Immunology, 22-27 August 2013, Milan, Italy.

ORAL Presentation

23. Rossato M, Gasperini S, Cencig S, Bazzoni F. "IL-10 primarily targets transcription of LPS-induced genes in human polymorphonuclear neutrophils". 16th European Congress of Immunology, September 6-9 2006, Paris, France, Abstract PA-3097.

Poster Presentation

24. Rossato M, Cencig S, Gasperini S, Bazzoni F. "Evidence for a direct action of IL-10-activated STAT3 in modulating TNFa, CXCL8 and IL-1ra gene transcription in LPS-treated neutrophils by protein synthesis-

independent and dependent mechanisms". 5th National Conference SIICA, June 6-9 2007, Trieste, Italy.

Poster Presentation

25. Tamassia N, Calzetti F, Menestrina N, Rossato M, Bazzoni F, Gottin L, and Cassatella MA. "Circulating neutrophils of septic patients constitutively express interleukin-10R1 (IL-10R1) and are promptly responsive to IL-10" 6th National Conference SIICA, June 11-14 2008, Rome, Italy. **Poster Presentation**

CONFERENCE ORGANIZATION

Scientific board member for the organization of the conference "Dall'esoma per tutti al genoma di tutti", held in Verona on April 19, 2017.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali"

Verona, 1 Agosto 2018



DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE O DELL'ATTO DI NOTORIETÀ
(artt. 46 e 47 del D.P.R. 445/2000)

La sottoscritta Marzia Rossato nata a Mirano (VE) il 18/12/1981 e residente in Santa Maria di Sala (VE), 30036, via Giotto 25/A, tel. 3482446984, codice fiscale RSSMRZ81T58F241Z, consapevole della responsabilità penale cui può andare incontro in caso di dichiarazione mendace, ai sensi dell'art. 76 del D.P.R. 445 del 28/12/2000,

DICHIARA

che tutto quanto riportato nel presente Curriculum Vitae corrisponde al vero.

Verona, 1 Agosto 2018

