

***Curriculum Vitae***  
**Marianna Nicoletta Rossi**

Research Fellow in the Molecular Biology Laboratory, Science Department, University Rome Tre

**Fields of Interest:** molecular biology, ncRNA, inflammation, gene expression, polyamines.

EDUCATION AND TRAINING

- **PhD in Human Biology and Genetics, Department of Cellular Biotechnologies and Hematology, Sapienza University of Rome**
- **Degree in Biological Science -110/110 cum laude, Science Department, University Roma Tre**

**Qualifications**

2021-Abilitazione Scientifica Nazionale II fascia BIO11 (05/E2)

Iscrizione albo dei Biologi

**Scientific societies**

2022 - Member of the Italian Biochemistry and Molecular Biology Society (SIBBM-FISV).

**Editorial and reviewer expertise:**

- Review Editor for the section *Epigenomics and Epigenetics* in *Frontiers in Cell and Developmental Biology* and in *Frontiers in Genetics*
- Topical Advisory Panel Member of *Life*
- Guest editor for the Special Issue “*Polyamines metabolism and function*” for the journal *Biomolecules*, submission open
- Guest editor for the Special Issue “*Cellular Stress and Inflammation: How the Immune System Drives Tissue Homeostasis*” published on March 2021 in *Frontiers in Immunology*, *Cytokines and Soluble Mediators in Immunity*
- Reviewer for *Cellular Physiology and Biochemistry*

**PUBLICATIONS:**

1. Cervelli, M.; Aversa, M.; Vergani, L.; Pedrazzi, M.; Amato, S.; Fiorucci, C.; **Rossi, M.N.**; Maura, G.; Mariottini, P.; Cervetto, C.; et al. The Involvement of Polyamines Catabolism in the Crosstalk between Neurons and Astrocytes in Neurodegeneration. *Biomedicines* 2022, *in publication*.
2. Fratini E; **Rossi MN**; Spagoni L; Riccieri A; Mancini E; Polticelli F; Bologna MA; Mariottini P; Cervelli M. Molecular Characterization of Kunitz-Type Protease Inhibitors from Blister Beetles (Coleoptera, Meloidae). *Biomolecules* 2022-07-15 DOI: 10.3390/biom12070988.
3. De Matteis A, Colucci M, **Rossi MN**, Caiello I, Merli P, Tumino N, Bertaina V, Pardeo M, Bracaglia C, Locatelli F, De Benedetti F, Prencipe G. Expansion of CD4dimCD8+T cells characterizes macrophage activation syndrome and other secondary HLH. *Blood* 2022. doi: 10.1182/blood.2021013549
4. **Rossi MN**, Federici S, Uva A, Passarelli C, Celani C, Caiello I, Matteo V, Petrocchi S, Mortari EP, De Benedetti F, Prencipe G, Insalaco A. Identification of a Novel Mutation in TNFAIP3 in a Family With Poly-Autoimmunity. *Front Immunol.* 2022 doi: 10.3389/fimmu.2022.804401.
5. Antonangeli F, Grimsholm O, **Rossi MN**, Velotti F. Editorial: Cellular Stress and Inflammation: How the Immune System Drives Tissue Homeostasis. *Front Immunol.* 2021 Mar 18; 12:668876.
6. Pascarella A, Bracaglia C, Caiello I, Arduini A, Moneta GM, **Rossi MN**, Matteo V, Pardeo M, De Benedetti F, Prencipe G. Monocytes From Patients With Macrophage Activation Syndrome and Secondary Hemophagocytic Lymphohistiocytosis Are Hyperresponsive to Interferon Gamma. *Front Immunol.* 2021 Mar 17; 12:663329. doi: 10.3389/fimmu.2021.663329.
7. Pardeo M.\*, **Rossi M. N.** \*, Pires Marafon D., Sacco E., Passarelli C., Bracaglia C., Perrone C., Tulone A., Prencipe G., De Benedetti F., Early treatment and *IL1RN* SNPs affect response to anakinra in systemic juvenile Idiopathic arthritis. *Arthritis & Rheumatology.* 2021 Jun;73(6):1053-1061 doi:10.1002/ART.41612.
8. Passarelli C, Civino A, **Rossi MN**, Cifaldi L, Lanari V, Moneta GM , Caiello I, Bracaglia C, Montinaro R, Novelli A, De Benedetti F, Prencipe G. IFNAR2 deficiency is associated with hemophagocytic lymphohistiocytosis. *Front Genet.* 2020 Sep 18; 11:937. doi: 10.3389/fgene.2020.00937

9. Matteini F, Andresini O, **Rossi MN**, Petrai S, Maione R. Poly(ADP-ribose) Polymerase 1 (PARP1) restrains MyoD-dependent gene expression during muscle differentiation. (2020) *Scientific Reports*. doi: 10.1038/s41598-020-72155-8
  10. Prencipe, G., Bracaglia, C., Caiello, I., Pascarella, A., Francalanci, P., Pardeo, M., Meneghel, A., Martini, G., **Rossi, M.N.**, Insalaco, A., Marucci, G., Nobili, V., Spada, M., Zulian, F., de Benedetti, F. The interferon-gamma pathway is selectively up-regulated in the liver of patients with secondary hemophagocytic lymphohistiocytosis (2019) *PLoS ONE*, 14 (12).
  11. **Rossi, M.N.**, Pascarella, A., Licursi, V., Caiello, I., Taranta, A., Rega, L.R., Levchenko, E., Emma, F., De Benedetti, F., Prencipe, G. NLRP2 Regulates Proinflammatory and Antiapoptotic Responses in Proximal Tubular Epithelial Cells (2019) *Frontiers in Cell and Developmental Biology*, 7, :252. doi: 10.3389/fcell.2019.00252.
  12. Andresini, O\*, **Rossi, M.N.\***, Matteini, F., Petrai, S., Santini, T., Maione, R. The long non-coding RNA Kcnq1ot1 controls maternal p57 expression in muscle cells by promoting H3K27me3 accumulation to an intragenic MyoD-binding region (2019) *Epigenetics and Chromatin*, 12 (1)
  13. **Rossi, M.N.**, Andresini, O., Matteini, F., Maione, R. Transcriptional regulation of p57kip2 expression during development, differentiation and disease (2018) *Frontiers in Bioscience - Landmark*, 23 (1), pp. 83-108. Cited 5 times.
  14. Andresini, O., Ciotti, A., **Rossi, M.N.**, Battistelli, C., Carbone, M., Maione, R. A cross-talk between DNA methylation and H3 lysine 9 dimethylation at the KvDMR1 region controls the induction of Cdkn1c in muscle cells (2016) *Epigenetics*, 11 (11), pp. 791-803.
  15. **Rossi, M.N.**, Antonangeli, F. Cellular Response upon Stress: P57 Contribution to the Final Outcome (2015) *Mediators of Inflammation*, 2015,
  16. **Rossi, M.N.**, Antonangeli, F. LncRNAs: New players in apoptosis control (2014) *International Journal of Cell Biology*.
  17. Sharifi, R., Morra, R., Denise Appel, C., Tallis, M., Chioza, B., Jankevicius, G., Simpson, M.A., Matic, I., Ozkan, E., Golia, B., Schellenberg, M.J., Weston, R., Williams, J.G., **Rossi, M.N.**, Galehdari, H., Krahn, J., Wan, A., Trembath, R.C., Crosby, A.H., Ahel, D., Hay, R., Ladurner, A.G., Timinszky, G., Scott Williams, R., Ahel, I. Deficiency of terminal ADP-ribose protein glycohydrolase TARG1/C6orf130 in neurodegenerative disease (2013) *EMBO Journal*, 32 (9), pp. 1225-1237.
  18. Peterson, F.C., Chen, D., Lytle, B.L., **Rossi, M.N.**, Ahel, I., Denu, J.M., Volkman, B.F. Orphan macrodomain protein (Human C6orf130) is an O-Acyl-ADP-ribose deacylase: Solution structure and catalytic properties (2011) *Journal of Biological Chemistry*, 286 (41), pp. 35955-35965.
  19. Chen, D.\*, Vollmar, M.\*, **Rossi, M.N.\***, Phillips, C., Kraehenbuehl, R., Slade, D., Mehrotra, P.V., Von Delft, F., Crosthwaite, S.K., Gileadi, O., Denu, J.M., Ahel, I. Identification of macrodomain proteins as novel O-acetyl-ADP-ribose deacetylases (2011) *Journal of Biological Chemistry*, 286 (15), pp. 13261-13271.
  20. **Rossi, M.N.\***, Carbone, M.\*, Mostocotto, C., Mancone, C., Tripodi, M., Malone, R., Amati, P. Mitochondrial localization of PARP-1 requires interaction with mitofilin and is involved in the maintenance of mitochondrial DNA integrity (2009) *Journal of Biological Chemistry*, 284 (46), pp. 31616-31624.
  21. Carbone, M.\*, **Rossi, M.N.\***, Cavaldesi, M., Notari, A., Amati, P., Maione, R. Poly(ADP-ribosyl)ation is implicated in the G0-G1 transition of resting cells (2008) *Oncogene*, 27 (47), pp. 6083-6092.
  22. Tavladoraki, P., **Rossi, M.N.**, Saccuti, G., Perez-Amador, M.A., Polticelli, F., Angelini, R., Federico, R. Heterologous expression and biochemical characterization of a polyamine oxidase from Arabidopsis involved in polyamine back conversion (2006) *Plant Physiology*, 141 (4), pp. 1519-1532. Cited 113 times.
- Book Chapter:
23. **Rossi MN**, Maione R. Identification of Chromatin Binding Sites for Long Noncoding RNAs by Chromatin Oligo-Affinity Precipitation (ChOP). *Methods Mol Biol*. 2020; 2161:17-28. doi:10.1007/978-1-0716-0680-3\_2.
  24. **Rossi MN** p57. Springer Science+Business Media LLC 2016 S. Choi (ed.), *Encyclopedia of Signaling Molecules*, DOI 10.1007/978-1-4614-6438-9\_101730-1

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Roma, 20-7-22 ..... Firmato da MARIANNA NICOLETTA ROSSI

