



Marina Cerreto

WORK EXPERIENCE

Academic Researcher - Fellowship

Dipartimento di Medicina Traslazionale e di Precisione, Sapienza University [01/10/2020 – Current]

City: Rome | Country: Italy

Research in hematology and cellular biology.

Research projects:

- Role of sialylation in chronic lymphocytic leukemia, B acute lymphoblastic leukemia and multiple myeloma
- Functional and molecular characterization of sialoglycans in regulating dissemination in lymphoid malignancies

Academic Researcher - Fellowship

Dipartimento di Biologia, University of Rome Tor Vergata [01/11/2013 – 31/12/2016]

City: Roma | Country: Italy

Research in Cellular and Molecular Biology.

Research projects:

- Role of extracellular vesicles in radiation-induced bystander effect
- Exosomes as mediator of epigenetic signals
- Effects of ionizing radiation on human topoisomerases

Academic Researcher - apprenticeship

ENEA Agenzia Nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile [01/10/2012 – 31/12/2016]

City: Roma

Research in Cellular and Molecular Biology.

Research project:

- Effect of ionizing radiation on human topoisomerases

Biological anthropologist

SSAR - Soprintendenza Speciale per i beni Archeologici di Roma [01/09/2007 – 30/09/2011]

City: Roma | Country: Italy

Study of human osteological archeological evidence.

Laboratory and on field activity.

EDUCATION AND TRAINING

PhD in Innovation in Immuno-mediated and Hematological Disorders

Sapienza University of Rome [01/10/2020 – 13/03/2024]

City: Rome | Country: Italy

Qualifying examination for Biologists at the Tor Vergata University of Rome

[2014]

City: Rome

Magistral Degree cum laude in Biologia ed Evoluzione Umana

University of Rome Tor Vergata [01/10/2011 – 10/10/2013]

City: Rome | Country: Italy

Bachelor Degree in Biologia Cellulare e Molecolare

University of Rome Tor Vergata [07/2007]

City: Rome | Country: Italy

Scientific high school diploma

Liceo Scientifico Vincenzo Pallotti [2002]

City: Rome | Country: Italy

PUBLICATIONS

[2024]

PSGL-1 decorated with sialyl Lewis^{a/x} promotes high affinity binding of myeloma cells to P-selectin but is dispensable for E-selectin engagement O'Dwyer, M., Kirkham-McCarthy, L., Cerreto, M. *et al.* PSGL-1 decorated with sialyl Lewis^{a/x} promotes high affinity binding of myeloma cells to P-selectin but is dispensable for E-selectin engagement. *Sci Rep* **14**, 1756 (2024).

[2023]

The Role of the Microenvironment and Cell Adhesion Molecules in Chronic Lymphocytic Leukemia Cerreto, M., Foà, R., & Natoni, A. (2023). The Role of the Microenvironment and Cell Adhesion Molecules in Chronic Lymphocytic Leukemia. *Cancers*, 15(21), 5160.

[2023]

Sialofucosylation Enables Platelet Binding to Myeloma Cells via P-Selectin and Suppresses NK Cell-Mediated Cytotoxicity Natoni, A., Cerreto, M., De Propriis, M. S., Petrucci, M. T., Fazio, F., Intoppa, S., Milani, M. L., Kirkham-McCarthy, L., Henderson, R., Swan, D., Guarini, A., O'Dwyer, M., & Foà, R. (2023). Sialofucosylation Enables Platelet Binding to Myeloma Cells via P-Selectin and Suppresses NK Cell-Mediated Cytotoxicity. *Cancers*, 15(7), 2154. <https://doi.org/10.3390/cancers15072154>

[2023]

Sialylation regulates migration in chronic lymphocytic leukemia Natoni, A., Cerreto, M., De Propriis, M. S., Del Giudice, I., Soscia, R., Peragine, N., Intoppa, S., Milani, M. L., Guarini, A., & Foà, R. (2023). Sialylation regulates migration in chronic lymphocytic leukemia. *Haematologica*, 108(7), 1851–1860. <https://doi.org/10.3324/haematol.2022.281999>

AN and MC contributed equally as co-first authors.

[2022]

P861: SIALOFUCOSYLATED STRUCTURES ENABLE PLATELET BINDING TO MYELOMA CELLS CONFERRING PROTECTION FROM NK-MEDIATED CYTOTOXICITY Natoni, A.; Cerreto, M.; De Propriis, M. S.; Petrucci, M. T.; Del Giudice, I.; Intoppa, S.; Milani, M. L.; Kirkham-McCarthy, L.; Henderson, R.; Swan, D.; O'Dwyer, M.; Guarini, A.; Foà, R.. P861: SIALOFUCOSYLATED STRUCTURES ENABLE PLATELET BINDING TO MYELOMA CELLS CONFERRING PROTECTION FROM NK-MEDIATED CYTOTOXICITY. *HemaSphere* 6():p 754-755, June 2022. | DOI: 10.1097/01.HS9.0000846324.83730.e4

[2017]

Effect of the irradiation on Neuroblastoma-derived microvesicles: A physical and biological investigation. Cerreto, M., Tortolici, F., Sennato, S., Casciardi, S., Giovanetti, A. and Rufini, S. (2017). Effect of the irradiation on

Neuroblastoma-derived microvesicles: A physical and biological investigation. Colloids and Surfaces A, (532), pp. 195-202.

[2016]

Microvesicles mediate radioresistance induction in neuroblastoma cells Poster in conference: "EVFF 2016 - Extracellular Vesicles: friends and foes" at: Weizmann Institute of Science - 234 Herzl Street, Rehovot 7610001 Israel

Cerreto, M.; Errico, V.; Sennato, S.; Santucci, M., B.; Chieppa, G.; Giovanetti, A. & Rufini, S.