

CURRICULUM VITAE

Francesca Moretta

Date of birth: December 23, 1982

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Education:

July 2001: Diploma in Classical Studies, Lyceum “Andrea D’Oria”, Genova. Final marks: 100/100. October 2007: M.D. University of Pavia. Dissertation: “Co-infusion of mesenchymal stem cells expanded ex vivo accelerates lymphoid reconstitution and results in decreased risk of rejection of transplanted hemopoietic stem cells from an HLA haploidentical donor”. 110/110 cum laude

(Supervisor: Franco Locatelli, M.D., Professor)

February 2008: Medical Licensure (Italy)

March 2008 – April 2012: Residency in Clinical Hematology, Medical School, University of Verona, Italy.

September 2010- April 2011: Attending (part time) the Laboratory of Stem Cell Research of the University of Verona c/o the University Medical Research Laboratory (LURM), under the supervision of Mauro Krampera, M.D., Professor.

April 2012 Dissertation and Degree in Clinical Hematology. Title: Double rearrangement of IgVH genes in chronic lymphocytic leukemia. 70/70 cum laude (Supervisor: Achille Ambrosetti, M.D., Professor).

September 2012 - August 2014: clinical research Fellow at the Department of Pediatric Onco- hematology, Bambino Gesù Hospital, Rome (Director: Franco Locatelli, M.D., Professor).

November 2014 – May 2019 PhD in in Biomolecular Medicine (Clinical Genomics and Proteomics) University of Verona Title: Analysis of a “novel” subset of CD34+ haematopoietic precursors in peripheral blood of patients with chronic inflammatory diseases. (Supervisor Achille Ambrosetti, M.D., Professor, Claudio Lunardi, M.D., Professor).

January 2020-October 2020 Hematology consultant in Sacro Cuore Don Calabria Hospital

Current position:

- Staff, laboratory medicine, Sacro Cuore Don Calabria Hospital, Negrar (VR): assessment of blood donors, transfusion medicine and laboratory procedures and analysis.

Other educational experiences:

2002: Internship c/o the Division of Hystology, San Matteo Hospital, Pavia. 2005:

Internship c/o the Division of Hematology, San Matteo Hospital, Pavia 2006: Internship c/o the Division of Oncology, San Matteo Hospital, Pavia.

2007: Internship c/o the Division of Pediatric Onco-hematology, San Matteo Hospital, Pavia.

2012 (July-August): Observership c/o the inpatient and outpatient Leukemia Program, Johns Hopkins Hospital, Baltimore (Supervisor: Judith Karp, M.D., Director of the Leukemia Program).

Clinical expertise Clinical Onco-Hematology both in adults and in children, with prevalent focus on HSC transplantation and management of leukemias and lymphomas.

Research Laboratory experience (limited) Cell cultures, mesenchymal stem cells, Flow Cytometry.

Publications

Bozzano F, Della Chiesa M, Pelosi A, Antonini F, Ascierto ML, Del Zotto G, Moretta F, Muccio L, Luganini A, Gribaudo G, Cenderello G, Dentone C, Nicolini L, Moretta A, Moretta L, De Maria A. HCMV-controlling NKG2C⁺ NK cells originate from novel circulating inflammatory precursors. J Allergy Clin Immunol. 2021 Jun;147(6):2343-2357. Epub 2021 Jan 23.

Quatrini L, Tumino N, Moretta F, Besi F, Vacca P, Moretta L. Helper Innate Lymphoid Cells in Allogenic Hematopoietic Stem Cell Transplantation and Graft Versus Host Disease. Front Immunol. 2020 Sep 30;11:582098.

Meazza R, Falco M, Loiacono F, Canevali P, Della Chiesa M, Bertaina A, Pagliara D, Merli P, Indio V, Galaverna F, Algeri M, Moretta F, Colomar-Carando N, Muccio L, Sivori S, Pession A, Mingari MC, Moretta L, Moretta A, Locatelli F, Pende D. Phenotypic and Functional Characterization of NK Cells in $\alpha\beta$ T-Cell and B-Cell Depleted Haplo- HSCT to Cure Pediatric Patients with Acute Leukemia. Cancers 2020, 12, 2187.

Sivori S, Pende D, Quatrini L, Pietra G, Della Chiesa M, Vacca P, Tumino N, Moretta F, Mingari MC, Locatelli F, Moretta L. NK cells and ILCs in tumor immunotherapy. Mol Aspects Med. 2020 Aug 13:100870. Del Zotto G, Antonini F, Pesce S, Moretta F, Moretta L, Marcenaro E. Comprehensive Phenotyping of Human PB NK Cells by Flow Cytometry Cytometry Part A. 2020 Sep;97(9):891-899

Pende D, Falco M, Vitale M, Cantoni C, Vitale C, Munari E, Bertaina A, Moretta F, Del Zotto G, Pietra G, Mingari MC, Locatelli F, Moretta L.

Killer Ig-Like Receptors (KIRs): Their Role in NK Cell Modulation and Developments Leading to Their Clinical Exploitation. *Front Immunol.* 2019 May 28;10:1179.

Munari E, Zamboni G, Sighele G, Marconi M, Sommaggio M, Lunardi G, Rossi G, Cavazza A, Moretta F, Gilioli E, Calì A, Netto GJ, Hoque MO, Martignoni G, Brunelli M, Vacca P, Moretta L, Bogina G. Expression of programmed cell death ligand 1 in non-small cell lung cancer: Comparison between cytologic smears, core biopsies, and whole sections using the SP263 assay. *Cancer Cytopathol.* 2019 Feb;127(1):52-61.

Vacca P, Munari E, Tumino N, Moretta F, Pietra G, Vitale M, Del Zotto G, Mariotti FR, Mingari MC, Moretta L. Human natural killer cells and other innate lymphoid cells in cancer: Friends or foes? *Immunol Lett.* 2018 Sep;201:14-19.

Munari E, Rossi G, Zamboni G, Lunardi G, Marconi M, Sommaggio M, Netto GJ, Hoque MO, Brunelli M, Martignoni G, Haffner MC, Moretta F, Pegoraro MC, Cavazza A, Samogin G, Furlan V, Mariotti FR, Vacca P, Moretta L, Bogina G. PD-L1 Assays 22C3 and SP263 are Not Interchangeable in Non- Small Cell Lung Cancer When Considering Clinically Relevant Cutoffs: An Interclone Evaluation by Differently Trained Pathologists. *Am J Surg Pathol.* 2018 Jun 12. doi: 10.1097/PAS.0000000000001105.

Munari E, Zamboni G, Lunardi G, Marchionni L, Marconi M, Sommaggio M, Brunelli M, Martignoni G, Netto GJ, Hoque MO, Moretta F, Mingari MC, Pegoraro MC, Inno A, Paiano S, Terzi A, Cavazza A, Rossi G, Mariotti FR, Vacca P, Moretta L, Bogina G. PD-L1 expression heterogeneity in non- small cell lung cancer: defining criteria for harmonization between biopsies and whole sections. *J Thorac Oncol.* 2018 Apr 25

Puccetti A, Fiore PF, Pelosi A, Tinazzi E, Patuzzo G, Argentino G, Moretta F, Lunardi C and Dolcino M. Gene Expression Profiling in Behcet's Disease Indicates an Autoimmune Component in the Pathogenesis of the Disease and Opens New Avenues for Targeted Therapy. *Journal of Immunology Research* 2018.

Puccetti A, Saverino D, Opri R, Gabrielli O, Zanoni G, Pelosi A, Fiore PF, Moretta F, Lunardi C, Dolcino M. Immune Response to Rotavirus and Gluten Sensitivity. *J Immunol Res.* 2018 Mar 15;2018:9419204

Pelosi A, Lunardi C, Fiore P, Tinazzi E, Patuzzo G, Argentino G, Moretta F, Puccetti A, Dolcino M. MicroRNA Expression Profiling in Psoriatic Arthritis. *BioMed Research International* 2018.

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Del Zotto G, Marcenaro E, Vacca P, Sivori S, Pende D, Della Chiesa M, Moretta F, Ingegnere T, Mingari MC, Moretta A, Moretta L. Markers and function of human NK cells in normal and pathological conditions. Cytometry B Clin Cytom. 2017 Mar;92(2):100-114.

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Montaldo E, Vacca P, Vitale C, Moretta F, Locatelli F, Mingari MC, Moretta L. Human innate lymphoid cells. Immunol Lett. 2016 Nov;179:2-8.

L Moretta, G Pietra, P Vacca, D Pende, F Moretta, A Bertaina, MC Mingari, Locatelli F, Moretta A. Human NK cells: from surface receptors to clinical applications. Immunology letters 178, 15-19

G Patuzzo, A Barbieri, E Tinazzi, D Veneri, G Argentino, F Moretta, Puccetti A, Lunardi C. Autoimmunity and infection in common variable immunodeficiency (CVID). Autoimmunity reviews 15 (9), 877-882.

P Vacca, E Montaldo, D Croxatto, F Moretta, A Bertaina, C Vitale, Locatelli F, Mingari MC, Moretta L. NK cells and other innate lymphoid cells in hematopoietic stem cell transplantation Frontiers in immunology 7, 188. F Moretta, F Petronelli, B Lucarelli, A Pitisci, A Bertaina, F Locatelli Mingari MC, Moretta L, Montaldo E. The generation of human innate lymphoid cells is influenced by the source of hematopoietic stem cells and by the use of G-CSF. European journal of immunology 46 (5), 1271- 1278.

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Locatelli F., Moretta F., Rutella S. Management of relapsed acute lymphoblastic leukemia in childhood with conventional and innovative approaches. *CURR. OPIN. ONCOL.* 25 (6), 707-715, 2013.

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Visco C.*, Moretta F.*, Falisi E., Facco M., Maura F., Novella E., Nichele I., Finotto S., Giaretta I., Ave E., Perbellini O., Guercini N., Scupoli M.T., Trentin L., Trimarco V., Neri A., Semenzato G., Rodeghiero F., Pizzolo G., Ambrosetti A. Double productive immunoglobulin sequence rearrangements in patients with chronic lymphocytic leukemia. *AM. J. HEMATOL.* Apr; 88(4):277- 82, 2013. *Shared first authorship.

Clave E, Lisini D, Douay C, Giorgiani G, Busson M, Zecca M, Moretta F, Acquafredda G, Brescia LP, Locatelli F, Toubert A. Thymic function recovery after unrelated donor cord blood or T-cell depleted HLAhaploidentical stem cell transplantation correlates with leukemia relapse. FRONT. IMMUNOL. Mar 4; 4:54, 2013.

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Meeting Abstracts:

Bertaina A., Pagliara D., Pende D., Rutella D., Falco M., Bauquet A., Contoli B., Lucarelli B., Brescia L.P., Merli P., Andreani M., Li Pira G., Ceccarelli S., Grapulin L., Palumbo G., Bernardo M.E., Biagini S., Moretta F., Milano G.M., Airoidi I., Moseley A., Moretta A., Moretta L., Locatelli F. Removal Of Alpha/Beta+ T Cells and Of CD19+ B Cells From The Graft Translates Into Rapid Engraftment, Absence Of Visceral Graft-Versus-Host Disease and Low Transplant-Related Mortality In Children With Acute Leukemia Given HLA-Haploidentical Hematopoietic Stem Cell Transplantation. BLOOD 122 (21), 157-157, 2013

Conforti A., Biagini S., Del Bufalo F., Sirleto P., Angioni A., Starc N., Li Pira G., Moretta F., Proia A., Contoli B., Genovese S., Ciardi C., Lo-Coco F., Locatelli F., Bernardo M. Biological, functional and genetic characterization of bone marrow-derived mesenchymal stromal cells isolated from pediatric patients affected by acute lymphoblastic leukemia. EXPERIM. HEMATOL. 41 (8), S56-S57, 2013.

Della Chiesa M., Bertaina A., Frassoni F., Moretta F., Rutella S., Podesta M., Girardi K., Brescia L.P., Di Florio F., Bernardo M.E., Moretta L., Locatelli F., Moretta A. Influence of human cytomegalovirus reactivation on NK-cell reconstitution in patients given haploidentical T-cell depleted HSCT and umbilical cord blood transplantation. BONE MARROW TRANSPLANTATION 48, S317- S317, 2013.

Pagliara D., Zecca M., Fagioli F., Lanino E., Balduzzi A., Messina C., Favre C., Porta F., Ripaldi M., Moretta F., Pession A., Prete A., Locatelli F. Outcome of children with ALL in second CR transplanted from an unrelated donor has significantly improved over time and is favourably influenced by the occurrence of grade I-II acute GVHD and limited chronic GVHD. BONE MARROW TRANSPLANTATION 48, S24-S24, 2013.

Rutella S., Folgiero V., R Masetti R., Pagliara D., Caruso R., Vinti L., Moretta F., Pession A., Locatelli F. Indoleamine 2, 3-dioxygenase-1 (IDO1) expression by childhood acute myeloid leukemia restrains IFN- γ production by T cells and may portend an unfavorable prognosis (P2157) J. IMMUNOL. 190, 170:35, 2013

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Myeloid Leukemias and Restrains IFN-gamma Production by T Cells. BLOOD 120 (21), 2012

Locatelli F., Moretta F., Tolve A., Introzzi F., Merli P. Il trapianto di cellule staminali emopoietiche nei pazienti affetti da thalassemia major HEMATOL. MEETING REPORTS (formerly Haematologica Reports)

Autorizzo il trattamento dei miei dati personali ai sensi dell'articolo 13 d. lgs. 30 Giugno 2003 n° 196 – Codice in materia di protezione dei dati personali” e dell’art. 13 GDPR 679/16 – “Regolamento europeo sulla protezione dei dati personali”.

Negrar di Valpolicella, 14/3/25