Curriculum Vitae

MICHELA CONSONNI

Date of birth: August 26th, 1988
Nationality: Italian
Work adress: Experimental Immunology Unit, Via Olgettina 58, 20132 Milano (MI)
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EDUCATION

Apr 2017: PhD at the International PhD school in Molecular Medicine – Basic and applied Immunology program Università Vita-Salute San Raffaele Milano;
Nov 2012: Master degree in Industrial Biotechnologies at the Università degli Studi di Milano Bicocca, with 110/110 cum laude;
Nov 2010: Bachelor degree in biotechnologies at the Università degli Studi di Milano Bicocca, with 110/110.

RESEARCH EXPERIENCE

Apr 17 to date: Post Doc Fellow at the Ospedale San Raffaele, DIBIT, Experimental Immunology Unit, Via Olgettina, 58, 20131 Milano (MI), Italy. Main activities: developing new adoptive immunotherapy approaches to target leukemia cells by engineered T lymphocytes expressing lipid specific TCRs CD1c-restricted.
Feb 13 - Apr 17: PhD student at the International PhD school in Molecular Medicine – Basic and applied Immunology program (Università Vita-Salute San Raffaele, Via Olgettina, 60, 20131 Milano (MI), Italy). Main activities: Understanding the development and function of lipid specific T lymphocytes restricted for CD1c molecules.
Sep 11 – Oct 12: Master thesis student at the Ospedale San Raffaele, DIBIT, Experimental Immunology Unit, Via Olgettina 58, 20132 Milan (MI), Italy. Main activities: Characterization of a humanized transgenic mouse model for the expression of group 1 CD1 molecules.

PERSONAL SKILLS AND COMPETENCES

LANGUAGES

Italian: mother tongue
English: Good reading; Good writing; Good speaking
French: Basic reading; Basic writing; Basic speaking

TECHNICAL SKILLS AND COMPETENCES

In vivo technologies: "Mouse-handling", Colony management, Blood collection with cardiac puncture, tail and ocular bleeding, in vivo vaccination protocols, generation of BM chimera and retrogenic mice; Organs withdrawal and cell subsets purification. Tissue and organ preparation for flowcytometry and immunohistochemistry analysis. Molecular Biology: Protein purification, PCR and DNA-based techniques, generation of lentiviral/retroviral vectors and virus production and transduction of human and murine primary cells. Cellular Biology: Cell lineage maintenance, generation and maintenance of human T cell clones and lines, lentiviral/retroviral transduction of human and murine primary cells and cell lines, production and culture of human and murine dendritic cells. Flow Cytometry analysis and cell preparation (surface and intracellular staining), ELISA assays, ELISpot assay.

COMPUTER SKILLS AND COMPETENCES

Excellent skills in the use of operating systems: Microsoft Windows and Mac / Os Software; Excellent skills in the use of the programs: Office (Word, Excel, Power Point), Adobe (Reader, Illustrator, Photoshop), Scientific program (FlowJo, Prism).

AWARDS AND FELLOWSHIPS

2022 NIBIT Science Award; XX NIBIT Meeting, Padova, Italy, October 13-15, 2022
2021 Best basic research project; X-edition of Under 40 in hematology; Webinar Online; November 11-12, 2021
2021 Scholarship to attend Keystone Symposia's eSymposia on Emerging Cells Therapies: Realizing the Vision of NexGen Cell therapeutics; January 25-27, 2021
2019 Keystone Symposia Scholarship to attend the Keystone Symposium on Emerging Cellular therapies: Cancer and Beyond; Banff, AB, Canada, February 8-12, 2020
2019 Travel grant to participate to the EMBO Workshop: CD1-MR1: Beyond MHC restricted lymphocytes meeting; Oxford, UK; September 1-5, 2019
2019 Best Poster presentation; DITID Retreat, San Raffaele Scientific Institute, Milan, Italy. January 10-11, 2019
2018 NIBIT Basic Science Award; XVI NIBIT meeting, Milano, Italy, 11-13 October, 2018

2017 Best oral presentation at the CD1-MR1 2017 meeting Napa, California, November 3-7, 2017
2016 SIICA Travel Grant Award to attend the International retreat of PhD Students in Immunology; Naples, Italy, September 29 – October 1, 2019
2015 Travel grant winner to attend the World Immune Regulation Meeting - IX, Davos, Switzerland; March 18-21, 2015
2015 Three-years fellowship from Fondazione Italiana per la Ricerca sul Cancro (FIRC) for the project "Targeting human acute leukemia by CD1c-restricted T cells specific for a self-lipid antigen".
2014 Fellowship and enrollment to 9th ENII-EFI/EJI Immunology Summer School, Porto Conte, Alghero, Italy; May 5-12, 2014

PUBLICATIONS

Delfanti G., Cortesi F., Perini A., Antonini G., Azzimonti C, De Lalla C., Garavaglia C., M.L. Squadrito, Fedeli M., Consonni M., et al. TCR-engineered iNKT cells induce robust antitumor response by dual targeting cancer and suppressive myeloid cells. Sci. Immunol. 2022 Aug 12;7(74):eabn6563

Consonni M., Garavaglia C., Grilli A., de Lallla C., Mancino A., Mori L., De Libero G., Montagna D., Casucci M., Serafini M., Bonini C., Häussinger D., Ciceri F., Bernardi M., Mastaglio S., Bicciato S., Dellabona P., Giulia C. Human T cells engineered with a leukemia lipid-specific TCR enables donor-unrestricted recognition of CD1c-expressing leukemia. *Nat Commun*. 2021 Aug 11;12(1):4844.

Tanzi M., Consonni M., Falco M., Ferulli F., Montini E., Pasi A., Cacciatore R., Brugnatelli S., Dellabona P., Casorati G., Montagna D. Cytokine-Induced Memory-Like NK cells with high reactivity against acute leukemia blasts and solid tumor cells suitable for adoptive immunotherapy approaches. *Cancers (Basel)*. 2021 Mar 30;13(7):1577.

Bellone M., Brevi A., Bruzzì S., Consonni M., De Santis F., Di Lullo G, Majorini M.T., Pastò A., Amadori A, Bregni M., Di Nicola M, Calabrò L, Ferrucci P.F., Proietti E., Colombo M.P., Russo V. Cancer bio-immunotherapy XVI annual NIBIT-(Italian Network for Tumor Biotherapy) meeting, October 11-13 2018, Milan, Italy. *Cancer Immunol Immunother.* 2020 Feb 6.

Consonni M., Dellabona P., Casorati G. Potential Advantages of CD1-restricted T cell immunotherapy in Cancer. *Mol. Immunol*. 2019 Nov;103:200-208.

Consonni M., de Lalla C., Bigi A., Dellabona P., Casorati G. Harnessing the CD1 restricted T cell response for leukemia adoptive immunotherapy. *Cytokine Growth Factor Rev*. 2017 Aug;36:117-123.

Dellabona P., Consonni M., de Lalla C., Casorati G. Group 1 CD1-restricted T cells and the pathophysiological implications of self-lipid antigen recognition. *Tissue Antigens*. 2015 Dec;86(6):393-405.

Lepore M., de Lalla C., Ramanjaneyulu GS., Gsellinger H., Consonni M., Garavaglia C., Sansano S., Piccolo F., Scelfo. A., Häussinger D., Montagna D., Locatelli F., Bonini C., Bondanza A., Forcina A., Li Z., Ni G., Ciceri F., Jenö P., Xia C., Mori L., Dellabona P., Casorati G., De Libero G. A novel self-lipid antigen targets human T cells against CD1c+ leukaemias. *J Exp Med*. 2014 Jun 30;211(7):1363-77.

ADDITIONAL INFORMATION

AFFILIATIONS: Member of the Italian Society of Immunology and Clinical Immunology and Allergology SIICA;
Member of the Network Italiano per la Bioterapia dei Tumori NIBIT;
Member of the European Hematology Association EHA.