

Sara De Biasi obtained PhD in Clinical and Experimental Medicine (Immunology) from the University of Modena and Reggio Emilia, Italy in 2013. From mid 2013, she is carrying out post-doc research as senior scientist in the lab of Immunology directed by prof. Andrea Cossarizza. Most of her work focuses on the variability of adaptive immune response in HIV, autoimmune disease, and cancer.

In particular, she studied the role of rare cells such as iNKT cell and circulating endothelial cells (CEC). During the last two years, she is studying T cell metabolism with particular interest in mitochondria.

Dr. De Biasi is an International Society for Advancement of Cytometry (ISAC) Marylou Ingram Scholar and she is part of the Cyto U task force of the same society. Moreover, she was involved in the organization of Multiple Sclerosis workshops and flow cytometry workshop as teacher and as organizer.



Relevant Literature:

1. De Biasi S., Gibellini L., Cossarizza A. Uncompensated polychromatic analysis of mitochondrial membrane potential using JC-1 and multilaser excitation. *Current Protocols in Cytometry* 2015;7.32.1-7.32.11.
2. De Biasi S, Cerri S, Bianchini E, Gibellini L, Persiani E, Montanari G, Luppi F, Carbonelli CM, Zucchi L, Bocchino M, Zamparelli AS, Vancheri C, Sgalla G, Richeldi L, Cossarizza A. Levels of circulating endothelial cells are low in idiopathic pulmonary fibrosis and are further reduced by anti-fibrotic treatments. *BMC Med.* 2015 Nov 9;13:277.
3. De Biasi S, Bianchini E, Nasi M, Digaetano M, Gibellini L, Carnevale G, Borghi V, Guaraldi G, Pinti M, Mussini C, Cossarizza A. Th1 and Th17 pro-inflammatory profile characterizes iNKT cells in virologically suppressed HIV+ patients with low CD4/CD8 ratio. *AIDS.* 2016 Nov 13;30(17):2599-2610.
4. De Biasi S, Simone AM, Nasi M, Bianchini E, Ferraro D, Vitetta F, Gibellini L, Pinti M, Del Giovane C, Sola P, Cossarizza A. iNKT Cells in Secondary Progressive Multiple Sclerosis Patients Display Pro-inflammatory Profiles. *Front Immunol.* 2016 Nov 30;7:555.
5. Cossarizza A, et. Al. Guidelines for the use of flow cytometry and cell sorting in immunological studies. *Eur J Immunol.* 2017 Oct;47(10):1584-1797.
6. De Biasi S, Gibellini L, Feletti A, Pavesi G, Bianchini E, Lo Tartaro D, Pecorini S, De Gaetano A, Pullano R, Boraldi F, Nasi M, Pinti M, Cossarizza A. High speed flow cytometry

allows the detection of circulating endothelial cells in hemangioblastoma patients. Methods. 2018 Feb 1;134-135:3-10.