

Sara De Biasi obtained PhD in Clinical and Experimental Medicine (Immunology) from the University of Modena and Reggio Emilia, Italy in 2013. She is Assistant Professor of Pathology and Immunology in the lab of Immunology directed by prof. Andrea Cossarizza. Most of her work focuses on the variability of adaptive immune response in COVID-19, HIV, autoimmune, and cancer patients. During the last two years, she is studying the immune changes in patients with COVID-19 and receiving SARS-CoV-2 vaccination.



Dr. De Biasi has been an International Society for Advancement of Cytometry (ISAC) Marylou Ingram Scholar and now she is a Councilor for the same Society.

Relevant Literature:

1. Molecular and cellular immune features of aged patients with severe COVID-19 pneumonia.
Lo Tartaro D, Neroni A, Paolini A, Borella R, Mattioli M, Fidanza L, Quong A, Petes C, Awong G, Douglas S, Lin D, Nieto J, Gozzi L, Franceschini E, Busani S, Nasi M, Mattioli AV, Trenti T, Meschiari M, Guaraldi G, Girardis M, Mussini C, Gibellini L, Cossarizza A, **De Biasi S**. *Commun Biol*. 2022 Jun 16;5(1):590. doi: 10.1038/s42003-022-03537-z.
2. Metabolic reprogramming shapes neutrophil functions in severe COVID-19.
Borella R, **De Biasi S**, Paolini A, Boraldi F, Lo Tartaro D, Mattioli M, Fidanza L, Neroni A, Caro-Maldonado A, Meschiari M, Franceschini E, Quagliano D, Guaraldi G, Bertoldi C, Sita M, Busani S, Girardis M, Mussini C, Cossarizza A, Gibellini L. *Eur J Immunol*. 2022 Mar;52(3):484-502. doi: 10.1002/eji.202149481. Epub 2021 Dec 24. PMID: 34870329.
3. Endogenous control of inflammation characterizes pregnant women with asymptomatic or paucisymptomatic SARS-CoV-2 infection.
De Biasi S, Tartaro DL, Gibellini L, Paolini A, Quong A, Petes C, Awong G, Douglas S, Lin D, Nieto J, Galassi FM, Borella R, Fidanza L, Mattioli M, Leone C, Neri I, Meschiari M, Cicchetti L, Iannone A, Trenti T, Sarti M, Girardis M, Guaraldi G, Mussini C, Facchinetti F, Cossarizza A. *Nat Commun*. 2021 Jul 29;12(1):4677. doi: 10.1038/s41467-021-24940-w.
4. Circulating mucosal-associated invariant T cells identify patients responding to anti-PD-1 therapy.
De Biasi S, Gibellini L, Lo Tartaro D, Puccio S, Rabacchi C, Mazza EMC, Brummelman J, Williams B, Kaihara K, Forcato M, Biciato S, Pinti M, Depenni R, Sabbatini R, Longo C, Dominici M, Pellacani G, Lugli E, Cossarizza A. *Nat Commun*. 2021 Mar 15;12(1):1669. doi: 10.1038/s41467-021-21928-4.

5. Expansion of plasmablasts and loss of memory B cells in peripheral blood from COVID-19 patients with pneumonia.
De Biasi S, Lo Tartaro D, Meschiari M, Gibellini L, Bellinazzi C, Borella R, Fidanza L, Mattioli M, Paolini A, Gozzi L, Jaacoub D, Faltoni M, Volpi S, Milić J, Sita M, Sarti M, Pucillo C, Girardis M, Guaraldi G, Mussini C, Cossarizza A. *Eur J Immunol.* 2020 Sep;50(9):1283-1294. doi: 10.1002/eji.202048838. Epub 2020 Aug 13.

6. Marked T cell activation, senescence, exhaustion and skewing towards TH17 in patients with COVID-19 pneumonia.
De Biasi S, Meschiari M, Gibellini L, Bellinazzi C, Borella R, Fidanza L, Gozzi L, Iannone A, Lo Tartaro D, Mattioli M, Paolini A, Menozzi M, Milić J, Franceschi G, Fantini R, Tonelli R, Sita M, Sarti M, Trenti T, Brugioni L, Cicchetti L, Facchinetti F, Pietrangelo A, Clini E, Girardis M, Guaraldi G, Mussini C, Cossarizza A. *Nat Commun.* 2020 Jul 6;11(1):3434. doi: 10.1038/s41467-020-17292-4.