

Diana Boraschi



Biographical Sketch

Diana Boraschi is an immunologist that built her experience both in academic institutions and industrial settings in Italy and abroad. She is presently Research Director at the CNR Institute of Protein Biochemistry in Naples. She has served as Director of Fellowships at the HSFPO in Strasbourg, France, and as external expert evaluator for the research programmes of the EU Commission, the Singapore National Medical Council, and numerous other agencies. She is author of 171 peer-reviewed research articles (h-index 53), 21 books, and 8 patents. She is involved in higher education and capacity building actions in Africa, in the field of poverty-related diseases.

Diana Boraschi studies the mechanisms of innate defence, focussing on the role of macrophages and inflammatory cytokines. Her main interests are the receptors and ligands of the IL-1 family. She currently studies the role of inflammation in the pathogenesis of diseases, with particular emphasis on abnormalities in monocyte/macrophages activation and the role of innate memory in modulating their activities. Within these studies, she is exploring the evolution of innate memory in invertebrates. Another interest is the impact of engineered nanoparticles in initiating or modulating pathology-related inflammation. She has initiated the “Immunosafety Task Force” within the EU NanoSafety Cluster, aiming at defining the immunosafety assessment as central part of nanosafety regulations.

Recent Publications

- Anchordoquy, T.J., Y. Barenholz, D. Boraschi, M. Chorny, P. Decuzzi, M. Dobrovolskaia, Z. S. Farhangrazi, D. Farrell, A. Gabizon, H. Ghandehari, B. Godin, N. M. La-Beck, J. Ljubimova, S. M. Moghimi, L. Pagliaro, J.-H. Park, D. Peer, E. Ruoslahti, N. J. Serkova, and D. Simberg. 2017. Mechanisms and barriers in cancer nanomedicine: addressing challenges, looking for solutions. *ACS Nano* 11: 12-18. <http://dx.doi.org/10.1021/acsnano.6b08244>
- Boraschi, D., P. Italiani, R. Palomba, P. Decuzzi, A. Duschl, B. Fadeel, and S. M. Moghimi. 2017. Nanoparticles and innate immunity: new perspectives on host defence. *Sem. Immunol.* 34: 33-51. <https://doi.org/10.1016/j.smim.2017.08.013>
- Italiani, P., and D. Boraschi. 2017. Induction of innate immune memory by engineered nanoparticles, an hypothesis that may become true. *Front. Immunol.* 8: 734. <http://dx.doi.org/10.3389/fimmu.2017.00734>
- Boraschi, D., P. Italiani, S. Weil, and M.U. Martin. 2018. The family of the interleukin-1 receptors. *Immunol. Rev.* 281: 197-232. <https://dx.doi.org/10.1111/imr.12606>
- Ghezzi, P., L. Floridi, D. Boraschi, A. Cuadrado, G. Manda, S. Levic, F. D'Acquisto, A. Hamilton, T.J. Athersuch, and L. Selley. 2018. Oxidative stress and inflammation induced by environmental and psychological stressors: a biomarker perspective. *Antioxid. Redox Sign.*, epub ahead of print. <http://dx.doi.org/10.1089/ars.2017.7147>

Istituto di Biochimica delle Proteine
CNR, Area della Ricerca di Napoli 1
Via Pietro Castellino 111
80131 Napoli
tel. 081-6132623
fax 081-6132277
email d.boraschi@ibp.cnr.it