Associate Editor Elisabetta Padovan

Elisabetta Padovan, Basel.

Elisabetta Padovan is a biologist with a PhD in human immunology. Her areas of expertise include T-cell biology, T-cell immunomodulation, skin immunity, and vaccine adjuvants. She started her career in immunology as a PhD student at the Basel Institute for Immunology (Basel, Switzerland) and at the University of Padua (Padua, Italy) studying the extent of allelic exclusion of antigen receptor genes in human T cells and was the first to identify T lymphocytes expressing two functional TCR $\alpha\beta$. As a postdoctoral student at the Max Planck Institute of Immunobiology (Freiburg, Germany), she studied human T-cell responses to haptens and identified the antigenic determinants recognized by allergen-specific T cells in patients allergic to β -lactam antibiotics. Her interest in T-cell immunomodulation emerged during her internship at the Basel University Hospital (Basel, Switzerland), where she was involved in clinical immunotherapy studies targeting metastatic melanoma. It was also there that she became interested in understanding why vaccination elicited unsatisfactory immune responses in vaccinees and hypothesized that, in vivo, tumour cells could hamper APC functions and, consequently, T-cell priming. Her research endeavours in this field have identified non-pyrogenic TLR agonists endowed with adjuvant activity and capable of modulating anti-tumor T-cell responses. In further studies, first as an Invited Associate Professor of Lisbon Medical School (Lisbon, Portugal) and the Instituto Gulbenkian de Cincia (Oeiras, Portugal), and more recently at the University of Basel and the Basel University Hospital (Basel, Switzerland), she has assessed the contribution of mononuclear phagocytes to T-cell immunomodulation by dissecting the bidirectional interaction among monocyte/macrophage subsets and human Th17 lymphocytes and its physiological consequences for cutaneous immunosurveillance.

Elisabetta Padovan is a guest editor of *Frontiers in Immunology – Immunological Memory*, a partner and consultant to the Brighton Collaboration Foundation, an associate editor of the *Journal of Molecular Biology Research* as well as an invited lecturer in human immunology at Basel University. She is also a member of the Swiss Society for Allergology and Immunology (SGAI/SSAI), the European Macrophage and Dendritic Cell Society (EMDS), the American Association of Cancer Research (AACR), and the Alexander von Humboldt Alumni Switzerland.