

Short CV: Anne Krug

Anne Krug obtained her MD in 2000 at the LMU Munich. From 2001 to 2003 she joined the lab of Marco Colonna at Washington University St. Louis as a postdoctoral researcher. From 2004 until 2014 she was heading a research lab at the II. Medical Department, Technical University Munich, where she also completed her training in Internal Medicine. In 2014 she became tenured Professor at the Institute for Immunology, Faculty of Medicine, LMU Munich. Her research focus is the differentiation, plasticity and function of dendritic cell subpopulations, especially their role in antiviral immune defense and in inflammatory diseases, which she studies with her group using mouse models and human samples. She discovered that plasmacytoid and conventional dendritic cells sense herpes viruses via TLR9 and small nuclear RNAs within autoimmune complexes via TLR7. Furthermore she contributed to the identification of the specific 5'-triphosphate-RNA binding site of RIG-I. Recently she has characterized the sequential steps of development and functional specialization of plasmacytoid dendritic cells using novel single cell analysis methods.