



Emilie NARNI - MANCINELLI, PhD, CR1, Inserm

Innate Lymphoid cells

Dr Narni-Mancinelli graduated in Biological Sciences from the University of Nice Sophia Antipolis. She obtained her doctorate in immunology, pharmacology, molecular and cell biology in 2008. During her doctoral studies, she investigated the molecular mechanisms of CD8+ T cell memory, which ensures protective immunity against intracellular pathogens.

She moved to the Luminy Centre for Immunology in Marseille as a postdoctoral fellow and joined Prof. Vivier's team, where she developed the NKp46iCre/+ mouse model that enables conditional deletion of genes specifically in NKp46+ cells. She also characterized the regulatory role of NK cells in adaptive immunity. Over the last 10 years, she has led a group in that discovered a novel ligand for the natural cytotoxic activation receptor NKp46 expressed by NK cells and demonstrated its role in the control of invasive bacterial infections. She has subsequently worked on transcriptomic profiling of NK cells from tissue and blood in the steady state and in cancer. In recent years, her group has been involved in the development of pan-genomic CRISPR screens aimed at uncovering the molecular mechanisms that regulate tumor cell recognition and killing by NK cells.

Dr Narni-Mancinelli is also involved in translating the laboratory's basic research discoveries into clinical applications through the development of innovative therapeutic monoclonal antibodies, such as NK cell engagers. She is currently working on the study of NK cell heterogeneity in cancer with the aim of proposing innovative treatments for these diseases based on the manipulation of NK cells.

Dr Narni-Mancinelli is a laureate of the French National Academy of Medicine, member of the Scientific Committee of Canceropole PACA, member of the Steering Committee of the CRISPR Screen LabTech platform, expert of the Scientific Committee of the Ligue contre le Cancer, elected member of the CIML Executive college, member of the CIML PhD Advisory Board and representative of the CIML Gender Equality Unit INSERM U1104. She is the author of 42 publications (h-index: 23, > 3000 citations) and co-inventor of 5 patents.