Central message: The immunological synapse (IS) formed in the contact area between T cells and antigen-presenting cells is an immune checkpoint for self versus non-self discrimination. CD4+ effector T cells and regulatory T (Treg) cells rely on this signaling platform for immune activation and immune suppression, respectively. I will introduce our findings on the critical costimulatory signaling of CD28-PKCθ in CD4+ effector T cells and CTLA-4-PKCη in Treg cells. I will discuss how exploitations of these signaling events will be beneficial for treating autoimmunity and cancers.

Selected Publications


