Husein Hadeiba, Ph.D.

Research
My research interests center on understanding how dendritic cells (DCs) regulate the immune response. Specifically we are interested in the role of DC trafficking in inflammation and in the maintenance of immune homeostasis and tolerance. To understand these processes, we are examining the mechanisms of DC homing to sites of immune tolerance such as (i) the thymus-the site of central tolerance, and (ii) the gut mucosa-where immune responses to commensal and ingested antigens (Ags) are shut down. We are also interested in understanding how microenvironmental tissue factors influence DC development and their ability to imprint unique homing properties on T cells. DCs are unique messenger white blood cells of the mammalian immune system. They function as specialized antigen-presenting cells (APCs), whose main function is to process and transport Ags and microenvironmental signals from the tissues to the draining lymph nodes for presentation to T cells. In the last decade, a large number of DC subsets have been characterized in part defined by their expression of unique trafficking and adhesion receptors, and migratory properties. We therefore would like to understand how these trafficking and adhesion receptors define their function and phenotype and how they are regulated by the tissue microenvironment, with the hope of targeting unique DC subsets to suppress chronic inflammation or to improve anti-tumor responses in immunotherapy.

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