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.

People

Husein Hadeiba, Ph.D.
Research Scientist/Principal Investigator
Palo Alto Veterans Institute for Research
Veterans Affairs Palo Alto Healthcare System
3801 Miranda Ave, Bldg 101, Rm. C4-111
Palo Alto, CA 94304
(650) 493-5000 ext. 6-3167
Fax (650) 858-3986
hadeiba@stanford.edu

Denis Dermadi Bebek, Ph.D.
Postdoctoral fellow
Department of Pathology
School of Medicine, Stanford University
(650) 493-5000 ext. 6-3167
ddermadi@stanford.edu
Romain Ballet
Postdoctoral fellow
Department of Pathology
School of Medicine, Stanford University
(650) 493-5000 ext. 6-3134
rballet@stanford.edu

Michael Bschedier
Postdoctoral fellow
Department of Pathology
School of Medicine, Stanford University
(650) 493-5000 ext. 6-3134
mbscheid@stanford.edu

Jihun Yeo
Postgraduate research volunteer
Palo Alto Veterans Institute for Research
Veterans Affairs Palo Alto Healthcare System
3801 Miranda Ave, Bldg 101, Rm. C4-111
Palo Alto, CA 94304
(650) 493-5000 ext. 6-3167
jihun.yeo@gmail.com

Phuong Dinh
Undergraduate research volunteer
Publications


Contact

Husein Hadeiba, Ph.D.
Research Scientist/Principal Investigator

Palo Alto Veterans Institute for Research
Veterans Affairs Palo Alto Healthcare System
3801 Miranda Ave, Bldg 101, Rm. C4-111
Palo Alto, CA 94304
(650) 493-5000 ext. 6-3167
Fax (650) 858-3986
hadeiba@stanford.edu

Links

Palo Alto Veterans Institute for Research:
https://pavir.org

Department of Pathology, Stanford University:
http://pathology.stanford.edu/