

CYTO
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Jeffrey C. Rathmell
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Dr. Rathmell studies metabolic mechanisms that influence lymphocyte fate and differentiation. He showed in postdoctoral studies that the metabolism of lymphocytes was dynamically regulated to control cell function and survival in inflammatory diseases and cancer. While at Duke University his lab was the first to show that functionally distinct T lymphocyte populations each require unique metabolic programs. In 2015 he moved to Vanderbilt University to direct the Vanderbilt Center for Immunobiology and co-lead to Host Tumor Interactions Program of the Vanderbilt Ingram Cancer Center. He is also an Associate Director for Immunobiology of the Vanderbilt Institute for Infection, Immunology, and Infection. Dr. Rathmell's ongoing research uses interdisciplinary biochemical, genetic, and single cell techniques to establish how metabolic pathways regulate T cell populations in immunologic diseases and the tumor microenvironment to ultimately modulate immunity in health and disease.