Laboratory Introduction

Our interest is to understand how signaling pathways and transcription factors determine hematopoietic and germ-cell fates during embryogenesis. The characterization will be based on mouse and human embryonic stem cells/induced pluripotent stem cells in vitro, and genetically modified mice in vivo. Our short-term goal is to define critical transcription factors and understand how they drive the formation of hematopoietic progenitors and germ cells. The ultimate goal is to reprogram any somatic cells to the two kinds in completely defined culture conditions.

Representative Publications