

Immunology Laboratory Manual
146:475
Syllabus/Spring 2022

Lab	Date	Experiment	Instructor
#1	1/26	Introduction to Immunology Lab and Examination of Peripheral Blood Smears	Dr. Xie
#2-A	2/2	Isolation of Mouse Spleen Mononuclear Cells by Density Gradient Centrifugation	Dr. Xie
#2-B	2/9	Immunofluorescence Staining of B cell and T Cell Populations of Mouse Spleen and Thymus	Dr. Xie
#2-C	2/16	Flow Cytometry and FACS Analysis of Mouse Spleen and Thymus	Dr. Xie
#2-D	2/23	FACS data analysis and Lab Module 2 Report	Dr. Xie
#3-A	3/2	Harvest of Mouse Lymphoid Tissues and Preservation of Tissues for RNA Extraction	Dr. Xie
#3-B	3/9	Preparation of RNA from the Tissues and Measurement of RNA Concentration and Quality	Dr. Xie
	3/12-3/20	SPRING BREAK	
#3-C	3/23	Analysis of CD4 Expression Using RT-PCR (RT-PCR)	Dr. Xie
#3-D	3/30	Agarose Gel Analysis, RT-PCR Data Analysis And Lab Module 3 Report	Dr. Xie
#4-A	4/6	Collection of Mouse Peritoneal Lavage and Phagocytosis by Macrophages	Dr. Daniels
#4-B	4/13	Detection of Autoantibodies in Serum of Lupus Patients by ELISA (Virtual Lab Simulation)	Dr. Daniels
#4-C	4/20	Activation of Cultured Macrophages by Pathogen-Associated Molecular Patterns	Dr. Daniels
#4-D	4/27	Measurement of Inflammatory Cytokines Secreted from Activated Macrophages by ELISA; ELISA Data Analysis and Lab Module 4 Report	Dr. Daniels