MolBio 121L/221L
Advanced Immunology Lab (SH 156)

Taught By

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Dr. Matthew Inlay
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TAs:
Monday  Yasamine Ghorbanian  yghorban@uci.edu
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Thursday Laura McIntyre  mcintyr@uci.edu
       Ankita Shukla  shuklaa@uci.edu

Part One: Dr. Walsh

Experiments

Week One  Overview and laboratory methods
Week Two  ELISA
Week Three  Culturing Jurkat cells
           Assignment 1 (ELISA standard curve) due; Lab Notebook check
Week Four  IL-2 ELISA using Jurkat supernatants
Week Five  Western blotting and phospho-tyrosine probing
           Assignment 2 (Jurkat ELISA) due; Lab Notebook check
Week Six  Take home midterm due in lecture

Part Two: Dr. Inlay

Experiments

Week Six  Bone marrow cytopsin; preparation of spleen and thymus for cryosectioning
Week Seven  Histological analysis and immunoflourescent stain of spleen and thymus
           Assignment 3 (Identification of May-Grunwald Giemsa stained cells) due;
           Lab Notebook check
Week Eight  Preparation for FACS analysis of spleen and thymus; bone marrow colony
           forming assay
           Assignment 4 (Identification of spleen and thymus regions) due
Week Nine  No class
Week Ten

Colony counting and scoring; FACS analysis; imaging of slides

MEET IN GROSS HALL

Lab notebook check

Finals Week

Assignment 5 (FACS analysis) due Monday, June 8th by 5pm in the Dropbox on EEE

Final on Wednesday June 10th (4-6pm DBH 1300)

Grading

Assignment 1 15 points
Assignment 2 15 points
Assignment 3 10 points
Assignment 4 10 points
Assignment 5 10 points

Lab notebook checks are 10 points each (total of 40 points)
Midterm and final are 50 points each

Lab Notebooks

Must be bound
Name and lab section (Monday or Thursday)
Number pages
Write in ink only
Date each entry and include heading with lab and experiment number/name (ie Lab 10, FACS analysis of spleen and thymus)
Purpose of the experiment
Materials and Methods (can write “The protocol provided in the M121L/M221L Spring 2015 lab manual was followed. The following changes were made...”)
Data (any calculations, descriptions, images, etc)
Conclusions (did it work? did it not work? why or why not?)

Please conduct yourself appropriately and follow laboratory safety rules as this is included in your lab notebook grade

We are looking forward to a great quarter with all of you!