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LAB SCHEDULE FOR MICROBIOLOGY 281, FIRST HALF page 9

FIRST NOTEBOOK GRADING, SUMMER QUARTER 2011

http://biology.clc.uc.edu/fankhauser/Labs/Microbiology/Lab_Schedule_First_Half.htm

Mount this schedule inside the front cover of your Lab Notebook:

DATE	LAB TOPICS	HANDOUTS & PROTOCOLS	ILLUST'NS & DATA
M 7/4	HOLIDAY...		
W 7/6	Keeping a notebook Intro to Lab Home made Root Beer Microscope Care & Use Bacterial smear and staining Oil immersion technique	Lab Schedule, Part I [mount: front cover] Handout Table of Contents I [mount:p. i] Lab. Notebook Proc. [mount: page 2] Optional: Format for Table of Contents Use of Contact Paper Notebook Illustrations <i>Sample</i> First Notebook Gradesheet Making Root Beer at Home Index to Micro Slides [mount: page 1] Binocular Microscope Use & Care Using and Evaluating Microscope Bacterial Morphology Sample Math Problems, Micro Use of Oil Immersion Objective Equipment for a Micro Work St'n Bacteriological Smear & Staining [Buccal Smear] Bacterial Flora of Teeth	Diagram of typical NB page Microscope Illustration Bacterial morphologies (3 types at 400x) Steps of using oil immersion Bacterial morphologies (3 types at 1000x) Buccal Smear Tooth scrapings
F 7/8	LAB FIRST TODAY Prepare a variety of solid media	Microbiological Media Prep Commonly Used Micro Media Commonly Used Media: Phage Autoclave Use	Balance weights, beaker tare <i>Your</i> weights for media prep. Autoclave: numbers on dials [<i>Bacillus anthracis</i> if time]
M 7/11	Gram stain Milk Fermenters	Gram Stain Protocol Milk Fermenters ("probiotics...")	Bacteriological loop Gram stain: yogurt & <i>E. coli</i> Bacteria in fermented milk Gram stain of fecal smear
W 7/13	LAB FIRST TODAY Bacterial growth curve If time: Wet mount Sporulating bacteria (prepared slides)	Bacterial Growth Curve Spectrophotometer Use Graph Construction Prep. of Wet Mount	Bubbler apparatus Spectrophotometer Growth Curve Readings Bact. growth, linear graph Bacterial motility Sporulating bacteria
F 7/15	Graphing Workshop Pipetting practice Serial dilutions	3 cycle semi-log graph paper Dilutions Principles Sample Problems Pipetting Practice Serial Dilutions	Bact. growth, semi-log graph Pipette diagram, meniscus Diagram of serial dil'n tech. Repipet w/ means to set vol. Graph A_{600} vs dye conc
M 7/18	Sterile technique Plate Spreading Tech. Plate Count	Use of the Displacement Pipette Yeast Plate Count Protocol Sterile Technique: Delivery of Liquids by Pipet Spreading Technique	Displacement Pipette Spreader, turntable A_{660} of 10^2 yeast dilution
W 7/20	Count plates, calc'ns		yeast plate count data Yeast cells Contaminants of yeast plates
F 7/22	Prepared Slides NOTEBOOKS DUE	Bacterial Features, Prepared Slides	Bacterial Features capsules <i>Mycobacterium tuberculosis</i>
M 7/25	Bring in antiseptic agents you wish to test for Monday's Lab.		Agar overlay principles