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BIOM 403.01: Medical Bacteriology and Mycology Laboratory

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BIOM 403
MEDICAL BACTERIOLOGY & MYCOLOGY LABORATORY

SPRING SEMESTER, 2015

TUESDAYS & THURSDAYS

3:40 - 5:30 PM

HS 404

Professor Mike Minnick

BIOM 403 Medical Bacteriology & Mycology Lab.....Spring, 2015

Professor- Mike Minnick (HS 509B; phone- 243-5972; mike.minnick@mso.umt.edu)

TA- Jim Reed (CHCB 216; phone- 243-2168; steven2.reed@umconnect.umt.edu)

Date	Day	Lab No.	Description
1-27	T	-	ORIENTATION & INTRODUCTION
1-29	R	1	BACK IN THE SADDLE
2-03	T	2	TRANSMISSION ROUTES
2-05	R	3	ID 2 isolates from transmission routes
2-10	T	4	Complete ID- turn in reports by next lab
2-12	R	5	GRAM + COCCI 1
2-17	T	6	GRAM + COCCI 2
2-19	R	7	ID 2 cocci isolates
2-24	T	8	Complete ID- turn in reports by next lab
2-26	R	9	AEROBIC GRAM + BACILLI 1
3-03	T	10	AEROBIC GRAM + BACILLI 2
3-05	R	11	ID 2 bacilli isolates
3-10	T	12	Complete ID- turn in reports by next lab
3-12	R	13	ENTERICS 1
3-17	T	14	ENTERICS 2
3-19	R	15	ID 2 enteric isolates/ MIDTERM EXAM
3-24	T	16	Complete ID- turn in reports by next lab
3-26	R	17	UNKNOWNNS
4-07	T	18	Continue unknownns
4-09	R	19	Continue unknownns
4-14	T	20	Complete- turn in reports by next lab
4-16	R	21	ANAEROBES 1
4-21	T	22	ANAEROBES 2, API kits
4-23	R	23	ANTIBIOTICS
4-28	T	24	ANTIBIOTICS
4-30	R	25	HUMAN MYCOSES 1
5-05	T	26	HUMAN MYCOSES 2
5-07	R	27	COMPLETE LABS
5-13	W	--	FINAL EXAM- 1:10-3:10 PM

Grading:

600 pts total from-

Midterm exam...100 pts

Final exam.....100 pts

Flora unknowns.....120 pts (8 @ 15 pts ea)

Midterm unknowns.....150 pts (3 @ 50 pts ea)

Notebooks.....130 pts (26 @ 5 pts ea)

Cutoff points for A,B,C, and D = 90%, 80%, 70% and 60%, respectively.

Medical Bacteriology Laboratory: Introduction

Finding a lab partner: Your first order of business is to find a lab partner. This is an important decision because you and your partner will have to work efficiently together to finish all of the labs in a timely fashion. Culture isolates are team projects, so your grade will depend partially on your partner's performance. Each member of the team is expected to pull his/her own weight and it is each member's responsibility to enter observations into a personal notebook.

Attendance: Attendance is **mandatory**. *Students with more than two unexcused absences will be required to drop the course.* Labs must be experienced for you to learn, and your partner is depending on you.

Late Policy: There is a 10% reduction of total points per day of tardiness for assignments.

Exams: The midterm exam will cover all labs up until the scheduled date. For review you should go over your lecture notes and information sheets in this packet. It will consist of short answer, fill-in-the-blank, and matching. There will also be "discussion" answer type questions. The final exam is given during finals week. It will consist of a **practicum** covering items that you learned over the course of the entire semester.

Lab notebook: You will keep a *bound* notebook for your observations and sketches **during lab**. The notebooks *will be graded*, and you will need them for future reference on your unknowns. Be aware that notebooks may be collected or viewed for grading at **any** time by the TA. Each lab (for example "Gram Positive Cocci") should have: 1) a heading, 2) procedures (can be referenced), 3) observations (must be current) and 4) a brief summary. There should be a table of contents and the pages of the notebook must be numbered. You are encouraged to cut and paste procedures, graphs, charts, or anything else that you might find useful into your notebook. Remember- the notebook will be extremely useful when you compile bacteria identification data.

Lab performance: Occasionally you will be asked to demonstrate certain lab procedures to the TA. For example, you may have to show a Gram stain of an organism, streak an isolation plate or demonstrate aseptic technique. The purpose of this is to ensure that everyone is on the same page in the lab. Don't be afraid to ask questions.

Flora isolates and unknowns: Floral isolates will be obtained and identified 4 times during the course of the semester. These are team projects. In addition, each student will be given an unknown culture mixture of 3 bacteria about half way into the course and will identify these bacteria to the species level. **Every student** will complete an "unknown report" (see page 39) detailing observations and tests used to identify the bacteria. A flowchart must be included. Be sure and turn in the reports on the due dates.

Text: *A Photographic Atlas for the Microbiology Laboratory*, Leboffe and Pierce, 4th Ed., Morton Publishing Co., 2011. **FOR YOUR REFERENCE- Numbers in brackets [xx] in this manual refer to page numbers in the text.**