

FOHS MICROBIOLOGY LABORATORY SCHEDULE, Spring 2008

Lab quizzes and lab practicums can not be made up.

| DATE | EXERCISE | READING | | Handouts | QUIZZES & ASSIGNMENTS |
|------------|--|---------------------------------------|-------------------------------------|----------------|--|
| | | Lab Exercises | Photo Atlas | | |
| WEEK ONE | | | | | |
| 31-Mar | Introduction Use of microscope <i>Unknown: streak plate</i> | vii-viii, 4-8, 16 41-43 10-12 | 23-25 13 | | |
| 2-Apr | Environmental sampling (take home exercise) <i>Unknown: Colony morphology</i> <i>Simple stain</i> <i>Wet mount</i> | 18 49-50, 64 61 | 1-8 27 43 | | |
| WEEK TWO | | | | | |
| 7-Apr | Incubate Environmental Sample Plates (from take home ex.) Nasal swab: Mannitol salt agar & TSA Throat culture: Blood agar plate MacConkey agar Gram stain with known organisms <i>Unknown: streak agar slant</i> | 66, 191-192 116 73 52 7-8 | 18-19 48 18 35 8-9 | | |
| 9-Apr | Observe MSA and BAP plates Observe Environmental Sample plates (take home ex.) MacConkey demonstration plates Growth Curve Experiment <i>Unknown: observe slant for growth</i> <i>Catalase test</i> <i>Gram stain</i> | 66, 116 73 20 86 52 | 18-19, 48 18 8 50-51 35 | online handout | |
| WEEK THREE | | | | | |
| 14-Apr | Kirby-Bauer Antibiotic test (pairs) Observe growth curve plates Soil dilution plates for antibiotic producers (DEMO) Handwashing experiment <i>Unknown: agar slant for gram stain</i> | 39 7-8 | 89-90 | online handout | Written Quiz Lab Report Due Friday by 3 pm |
| 16-Apr | Observe UV plates (DEMO) Observe handwashing plates <i>Unknown: gram stain</i> | 34 52 | 35 | online handout | |

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| | | Lab Exercises | Photo Atlas | | |
| WEEK FOUR | | | | | |
| 21-Apr Read Kirby-Bauer antibiotic plates Snyder agar | | 39 154, 193-196 | 89-90 96 | | Written Quiz |
| 23-Apr Observe Snyder agar Review for lab practicum | | 154 | 96 | | |
| WEEK FIVE | | | | | |
| 28-Apr LAB PRACTICUM | | | | | LAB PRACTICUM |
| | | 10-12 | 13 | | |
| 30-Apr <i>Unknown: Inoculate Gelatin,</i> <i>Phenol red broths,</i> <i>Litmus milk,</i> <i>Motility agar,</i> <i>MR-VP</i> <i>Streak New TSA Plate</i> | | 102 80 111 120 84 | 59 57-59 64-65 67-68 67, 80-81 | | |
| WEEK SIX | | | | | |
| 5-May <i>Unknown: Read Gelatin</i> <i>Phenol red broths,</i> <i>MR-VP,</i> <i>Motility agar,</i> <i>Unknown: Inoculate thioglycolate</i> <i>Urea broth</i> <i>Triple Sugar Iron agar (TSI),</i> | | 102 80 84 120 25 99 108 | 59 57-59 67, 80-81 67-68 10-11 79-80 78-79 | | |
| 7-May <i>Unknown: Gram stain/KOH method</i> <i>Unknown: Observe thioglycolate</i> <i>Urea broth</i> <i>Triple Sugar Iron agar (TSI),</i> <i>Gelatin</i> <i>Streak New TSA Plate</i> | | 52 25 99 108 102 | 37 10-11 79-80 78-79 59 | | |

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| | | Lab Exercises | Photo Atlas | | |
| WEEK SEVEN | | | | | |
| 12-May | Endospore stain: also on unknown if Gram+ | 59 | 41 | handout | |
| | Set up filamentous fungi cultures <i>Unknown: read Litmus milk,</i> | 111 | 64-65 | | |
| 14-May | Acid fast stain, Kinyoun method | 54 | 38 | online handout | |
| | Molecular Identification: Set-up PCR | | | | |
| | <i>Unknown: Inoculate Simmon’s citrate agar,</i> | 91 | 51-52 | | |
| | <i>Mannitol salt agar</i> <i>API test strips for Enteric unknowns</i> | 66 | 18 56-57 | | |
| WEEK EIGHT | | | | | |
| 19-May | Observe filamentous fungi | 172 | 159-173 | handout | |
| | Observe yeast-like fungi | 172 | | online handout Bauman Ch 4 | |
| | Molecular Identification: Agarose gel electrophoresis | | | | |
| | <i>Unknown: Identification/dichotomous key</i> | | | | |
| | <i>Read: Simmon’s citrate agar,</i> | 91 | 51 | | |
| | <i>Mannitol salt agar</i> <i>API test strips</i> | 66 | 18 56-57 | | |
| 21-May | Parasite slides, Epidemic exercise Review for lab practicum | 174-176 | 180-199 | handout | |
| WEEK NINE | | | | | |
| 26-May | HOLIDAY- No Lab | | | | |
| 28-May | Read Epidemic exercise results | | | handout | |
| | Rhizobium root nodules | | | handout | |
| | UNKNOWN REPORT DUE by 3pm | | | | |
| WEEK TEN | | | | | |
| 30-May | Review for lab practicum | | | | |
| 1-Jun | FINAL LAB PRACTICUM | | | | |
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