BIO 201 Lab 14
Exp. 16: Week 3 Unknowns

Professor Diane Hilker
GOOD LUCK!
Overview

1. Exp. 16: Identification of Unknown Microorganisms
I. Exp. 16: Identification of Unknown Microorganisms

TODAY:
- Get out all plates, tubes and slides from the incubators that belong to you
- Interpret results carefully
  - **Gram Pos. Cocci**: Observe Salt Plate for heavy growth; repeat Catalase Test
  - **Gram Pos. Rods**: Add IKI to Starch Plate & observe for clearing around the colony which would indicate starch hydrolysis
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- Gram Negative Rods:
  - Observe PRLB & PRDB tubes first
  - If both neg., think about *Pseudomonas*
  - Split MRVP tube and do the MR Test in one tube and the VP Test in the second tube (may require up to 60 minutes of incubation for color change)
  - Add chemicals to the necessary tubes
  - Use Reference Books and uninoculated tubes to assist with your interpretation
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- Gram Negative Rods:
  - Interpret YOUR results first & then compare to Table 9

- Use a “Tally or Check Method”
  - If your results agrees with a microbe, give the microbe a check mark
  - May want to use half checks for +/− and −/+ results
  - Should be more checks next to one microbe versus the others
I. Exp. 16: Identification of Unknown Microorganisms

- When ready to identify your unknown, present to your instructor the following:
  - Unknown worksheet filled out with your results & Genus identification
  - Have all tubes, plates and slides available for review
  - Be able to explain to your instructor your results & what led you to your identification
  - Instructor will let you know if you are correct in your identification
I. Exp. 16: Identification of Unknown Microorganisms

- The **BIO201** lab counts 25% of your TOTAL grade
- The unknown counts 10% of the BIO201 Lab grade
- If you identify your unknown correctly, you will receive 10 points
- If you do not identify your unknown correctly, you will receive 0 points
- There is **NO** partial credit
- Failure in **attempting** to identify your unknown, will result in a 0 for the **ENTIRE** lab
I. Exp. 16: Identification of Unknown Microorganisms

- To Clean Up:
  - Remove tape from all tubes; put tubes in autoclave basket
  - Discard all plates in the Biohazard Bag
  - Slides go in the “Sharps Container”
  - Remove tape from Slide Box
  - Fill out Course Evaluation and Index Card (advice you would like to give to the next semester BIO201 students as to how to do well in the course)