Required and Suggested Readings

General Required Readings for All New Lab Members:

Lab Manual and attachments (available on the Internal Lab page)

At the Bench: A Laboratory Navigator, by Kathy Barker

Chapter 1: General Lab Organization and Procedures

Chapter 5: Lab Notebooks

Chapter 8: Storage and Disposal

Chapter 9: Working without Contamination

Chapter 11: Bacteria

Calculating What You Need p.136-141 (make a copy for your use)

Required Readings for Specific Situations:

Before working with *Listeria*, you <u>must</u> read:

Biological Agent Reference Sheet (BARS) for *Listeria monocytogenes* from EH&S (included with orientation materials)

https://sp.ehs.cornell.edu/lab-research-

safety/bios/bars/Documents/BIO_BARS_Listeria_monocytogenes.pdf

Listeria Pathogenesis and Molecular Virulence Determinants Vazquez-Boland et al., <u>Clinical Microbiology Review</u>, July 2001 p. 584-640. (Make a copy for your use.)

Before working with Salmonella, you must read:

Biological Agent Reference Sheet (BARS) for *Salmonella enterica spp*. from EH&S (included with orientation materials)

https://sp.ehs.cornell.edu/lab-research-

safety/bios/bars/Documents/BIO_BARS_Salmonella_enterica_spp.pdf

Before doing Tissue Culture, you <u>must</u> read:

<u>Tissue Culture Techniques</u>, by Bernice M. Martin (available in our lab library) Introduction

Chapter 2: Sterility

Chapter 3: Routine Cell Culture

Appendices A: The Cell Cycle and B: Media and Salt Solutions

Before doing Restriction Digests, you must read:

New England Biolabs catalog: "Endonucleases: An Overview" in the appendix of the catalog.

Before running Agarose Gels, you must read:

Molecular Cloning: A Laboratory Manual, by Sambrook, Fritsch & Maniatis (Familiarly known as "Maniatis")

"Agarose Gel Electrophoresis" 6.3-6.15

OR:

Current Protocols "Agarose Gel Electrophoresis" 2.5A.1-2.5A.8

Before PCR, you <u>must</u> read:

Current Protocols: Polymerase Chain Reaction 15.0.1-15.1.13

Milk Quality Improvement Program Required Reading:

Standard Methods for the Examination of Dairy Products (17th edition)

Chapter 3: Sampling Dairy and Related Products

Chapter 6: Microbiological Count Methods

Chapter 8: Tests for Groups of Microorganisms

Chapter 9: Microbiological Methods for Dairy Products

Suggested Readings:

At the Bench:

Current Protocols:

[&]quot;How to Spin" - a good introduction to centrifuges p. 355

[&]quot;Sterile Technique" p. 187

[&]quot;Presenting yourself and your Data" p. 101

[&]quot;For nonnative English speakers" p. 104

[&]quot;Journal Clubs" p. 116-118

[&]quot;Digestion of DNA with Restriction Endonucleases" 3.1.1-3.1.2

[&]quot;DNA ligases" (for T4 DNA ligase) 3.14

[&]quot;Phosphatases & Kinases" (for CIP) 3.10

[&]quot;Constructing Recombinant DNA Molecules by the Polymerase Chain Reaction" 3.17.1