

# Required and Suggested Readings

## General Required Readings for all new 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 must read:

*Listeria* Pathogenesis and Molecular Virulence Determinants

Vazquez-Boland et al., Clinical Microbiology Review, July 2001

p. 584-640 (**Make a copy for your use**)

<http://www.cdc.gov/listeria/index.html>

Before working with *Salmonella*, you must read:

**CDC document on Salmonellosis (included with orientation materials)**

<http://www.cdc.gov/salmonella/general/index.html>

Before doing Tissue Culture, you must read:

Tissue Culture Techniques, by Bernice M. Martin (available in our lab library)

Introduction

Chapter 2: Sterility

Chapter 3: Routine Cell Culture

Appendices A, The Cell Cycle & B, Media and Salt Solutions

Before doing restriction digests, read:

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

Before running agarose gels:

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:

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 (17<sup>th</sup> 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:

“How to Spin” a good introduction to centrifuges, p. 355

“Sterile Technique” p. 187

“Presenting yourself and your Data” p. 101

“For nonnative English speakers” p. 104

“Journal Clubs”, p. 116-118

#### Current Protocols:

“Digestion of DNA with Restriction Endonucleases” 3.1.1-3.1.2

“DNA ligases” (for T4 DNA ligase) 3.14

“Phosphatases & Kinases” (for CIP) 3.10

“Constructing Recombinant DNA Molecules by the Polymerase Chain Reaction” 3.17.1