

HD-1: Introduction to Development

Ed Laufer, February 19, 2009

Learning Objectives

Become familiar with major model organisms used in developmental biology studies

Familiarity with lineage, cell fate, specification and determination

Understand distinction between morphogenesis and differentiation

Concept of inductive signaling

 Modes of signaling

 Instructive versus permissive signals

 Major signaling pathways

Understand fate mapping

Suggested reading

Schoenwolf (Larsen's): pp 133-162.

Gilbert: Intro pp 3-15.

 Lineage and cell fate pp 49-67.

 Signaling pp 147-158.