Massachusetts Institute of Technology
Department of Biology
7.22, Fall 2005 - Developmental Biology
Instructors: Professor Hazel Sive, Professor Martha Constantine-Paton

Cloning

## 7.22/7.72 Lecture 1: Introduction 9.7.05 Terms which may be new to you. Most will be covered in class. You will see some of these in future classes and will be able to refine your understanding of them. **Fertilization Cell division Apoptosis** Cell type Morphogenesis Teratogen Stem cell Histogenesis **Organogenesis Axes** Morphogenesis

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Fate
Determinants
Inducers (induction)
Competence
Potency
Determination (commitment/specification)
Differentiation
Control of gene expression
Blastula
Gastrula
Neurula
Germ layers
Model organism

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