


Bio 115 Cells & Evolution of Life

Cell Differentiation and Morphogenesis

Cell Determination and Differentiation



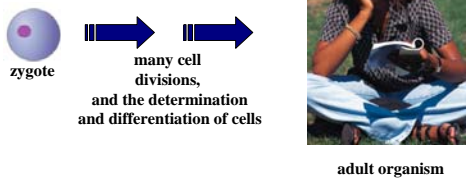
University of Idaho

Start Audio Lecture!

1

Bio 115 Cells & Evolution of Life

Cell Determination and Development



zygote

many cell divisions, and the determination and differentiation of cells

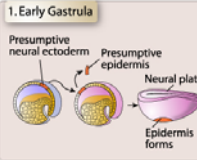
adult organism

2

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Cell Determination

1. Early Gastrula



Presumptive neural ectoderm Presumptive epidermis

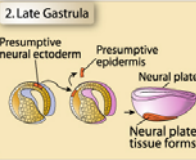
Neural plate

Epidermis forms

Neural precursor cells of the frog embryo are not determined at early stages

→ will become epidermal cells if transplanted.

2. Late Gastrula



Presumptive neural ectoderm Presumptive epidermis

Neural plate

Neural plate tissue forms

Later stage cells are Determined and will still form neural tissue if transplanted.

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