

Class: Developmental Biology

Coordination: Sara Amâncio

Other lecturers: Wanda Viegas, José Carlos Franco, Jorge Almeida, José Ferreira da Silva (FMV-UTL), Elisabete Figueiredo, Margarida Delgado, Mónica Dias (IGC), Moises Mallo (IGC)

Required UCs: Genetics and Genomics

Term: Y3/2

Number and type of weekly lectures: Theoretical lectures - 2 h (30 min);

Lab work, accompanied research and student presentations – 3 h

Program	Duration (weeks)	Lecturers
Commitment, determination and morphogenesis; Gene expression and regulation in development; Cell communication, signaling and migration; Apoptosis; Gametogenesis and fertilization	2	Sara Amâncio Wanda Viegas
Cleavage and gastrulation in Invertebrate and Vertebrate embryos	1	Sara Amâncio
Cell specification and patterning of the nematode <i>Caenorhabditis elegans</i>	1	Margarida Delgado
Embryonic pattern in Insects: The <i>Drosophila</i> model; Homeotic genes and regulation of axial and regional specification in <i>Drosophila</i> ; Insects metamorphosis	3	José Carlos Franco, Jorge Almeida, Mónica Dias, Elisabete Figueiredo,
Vertebrates embryogenesis: fate of the ectoderm, mesoderm e endoderm Somitogenesis and patterning; Somite differentiation Organogenesis of male and female genital apparatus: morphology and molecular regulation	2	José Ferreira da Silva, Moises Mallo
Plant Development; Shoot and root meristems; Pattern of leaf development; Genetic control of flower development	3	Sara Amâncio Jorge Almeida
Group and/or individual presentations	2	All