Evolutionary developmental biology

The research line of evolutionary developmental biology, Evodevo onwards, is based on the study of morphological evolution developing theories on the interdependence between the dynamics of development and evolution. This line has led to the study of pattern formation mechanisms responsible for the generation of phenotypic variation in populations. The essence of this is the will to understand the relationship between genetic variation (and environmental) morphological variation in different animal species and the impact on these developments. In practice this will result in the integration of experimental data obtained in developmental biology and mathematical models of development and evolution. An example of such integration is the simulation of tissue growth from the gene that codes network.