

Conferencia impartida por el Dr. Juan Calvo Yagüe (Universidad de Granada) en la Facultad de Ciencias de la Universidad de Málaga el día 28 de Noviembre de 2016.

TITULO. Mathematical models in Developmental Biology.

RESUMEN. We will introduce some of the mathematical modeling tools that have been introduced in the field of Developmental Biology, focusing in specific problems in embryogenesis. The use of multiscale models based on a combination of ordinary and partial differential equations is a well established research paradigm in this area by now. After reviewing some of the past and present contributions, we will discuss both their merits and shortcomings in the light of recent experimental results.