

**M2 E26 Theoretical Systems Biology**

Organizers: Aleksandra Walczak (aleksandra.walczak@phys.ens.fr) and Vicent Hakim (vincent.hakim@phys.ens.fr)

December 5-9, room 321

	Monday 5	Tuesday 6	Wednesday 7	Thursday 8	Friday 9
9:30	Introduction to dynamical models in systems biology, Vincent Hakim	Introduction to stochastic models and noise, Aleksandra Walczak	Cellular sensing and precision, Thierry Mora	Cellular decision making, Massimo Vergassola	Development, Francis Corson
11:00	break	break	break	break	break
11:15	Introduction to dynamical models in systems biology, Vincent Hakim	Introduction to stochastic models and noise, Aleksandra Walczak	Cellular sensing and precision, Thierry Mora	Cellular decision making, Massimo Vergassola	Development, Francis Corson
12:30	lunch	lunch	lunch	lunch	lunch
14:15	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Student presentation
16:00	break	break	break	break	break
16:15					
17:30	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Computer practical, Lisa Bedin	Student presentation

**Evaluations:** presentation of an article that will be given on the first day of class.

During the practicals, the students will work in small groups to reproduce elements of the paper and explore around these points, under the supervision and with the technical help of the TA.

On Friday afternoon the groups of students will present short presentations about the paper and answer questions.

**Computer practicals:** students will need to have their laptop with python installed