



WEEK 1

WEEK 2

	Tuesday 03/10/2023	Friday 06/10/2023	Tuesday 10/10/2023	Friday 13/10/2023
Morning	<p>salle xx 9h00 - 9h30</p> <p>“Introduction to course” (25’)</p> <p>Iris SALECKER</p> <hr/> <p>9h30 – 12h</p> <p>“From body axis to polarity genes to germ cell development in <i>Drosophila</i>”</p> <p>Jean-René HUYN (CIRB, Paris) jean-rene.huynh@college-de-france.fr</p> <p>- Lecture and discussion</p>	<p>salle xx 9h - 12h</p> <p>“Epigenetic regulation of <i>C. elegans</i> development”</p> <p>Germano Cecere (Institut Pasteur, Paris) germano.cecere@pasteur.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 9h - 12h</p> <p>“Limb development”</p> <p>Jérôme GROS (Institut Pasteur) jerome.gros@pasteur.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 9h - 12h</p> <p>“Organ size control”</p> <p>Pierre LEOPOLD (Institut Curie) Pierre.leopold@curie.fr</p> <p>- Lecture, paper presentation and discussion</p>
	<i>Break</i>			
Afternoon	<p>salle xx 14h - 17h</p> <p>“Cell migrations during development”</p> <p>Nicolas DAVID (Ecole Polytechnique, Paris) nicolas.david@polytechnique.edu</p> <p>- Lecture and discussion</p>	<p>salle xx 14h - 17h</p> <p>“Carving tissues with apoptosis: homeostasis, growth, morphogenesis and beyond”</p> <p>Romain LEVAYER (Institut Pasteur, Paris) romain.levayer@pasteur.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 14h - 17h</p> <p>“Developmental evolution of the brain in blind cavefish”</p> <p>Sylvie RETAUX (Paris-Saclay Institute of Neuroscience, Gif-sur-Yvette) sylvie.retaux@cnr.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 14h - 17h</p> <p>“From hormonal signals to dynamical self-organization of shoot development in plants”</p> <p>Teva VERNOUX (ENS, Lyon) teva.vernoux@ens-lyon.fr</p> <p>- Lecture, paper presentation and discussion</p>

WEEK 3

WEEK 4

	Tuesday 17/10/2023	Friday 20/10/2023	Tuesday 24/10/2023	Friday 27/10/2023
Morning	<p>salle xx 9h - 12h</p> <p>“Neural stem cells and neurogenesis in embryonic and adult mammals”</p> <p>François Guillemot (The Francis Crick Institute, London) Francois.Guillemot@crick.ac.uk</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 9h - 12h</p> <p>“<i>In vitro</i> models of human development”</p> <p>Stéphane NEDELEC (Institut de Fer à Moulin, Paris) stephane.nedelec@inserm.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 9h - 12h</p> <p>““Choanoflagellates and the origin of animal multicellularity and morphogenesis”</p> <p>Thibaut BRUNET (Institut Pasteur, Paris) thibaut.brunet@pasteur.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 9h - 12h</p> <p>“Studying spontaneous stem cell mutations”</p> <p>Allison BARDIN (Institut Curie, Paris) Allison.Bardin@curie.fr</p> <p>- Lecture, paper presentation and discussion</p>
<i>Break</i>				
Afternoon	<p>salle xx 14h - 17h</p> <p>“3D Collective cell migration: Plumbing issues”</p> <p>Veronique Brodu (Institut Jacques Monod, Paris) veronique.brodu@ijm.fr</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 14h - 17h</p> <p>Neurogenesis in the visual system of <i>Drosophila</i>”</p> <p>Iris SALECKER (IBENS, Paris) iris.salecker@bio.ens.psl.eu</p> <p>- Lecture, paper presentation and discussion</p>	<p>salle xx 14h - 17h</p> <p>“Tutorial: Designing Crispr/Cas9 experiments”</p> <p>Iris SALECKER (IBENS, Paris,) iris.salecker@bio.ens.psl.eu</p> <p>- Lecture/TD to guide « travail personnel »</p>	<p>salle xx 14h - 17h</p> <p>“Neural crest: evolution, development and cancer”</p> <p>Anne-Hélène MONSORO-BURQ (Institut Curie, Orsay, FR) anne-helene.monsoro-burq@curie.fr</p> <p>- Lecture and discussion</p> <hr/> <p>FINAL DISCUSSION (Iris SALECKER)</p>

- 6 ECTS (48 hours 16 cours ; additional hours for personal work)

- Grades will be based on course participation (10%), a « journal club » (i.e. presentation of one article followed by a discussion, 40%), a Crispr/Cas9 exercise (25%) and 4 weekly course question exercises (25%).