

3.0 credits	25.0 h + 15.0 h	1q
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Teacher(s) :	Rezsohazy René ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	The course begins with the analysis of the basic mechanisms of embryonic development (morphogenesis, induction, cellular differentiation, apoptosis, axis determination, gene development, asexual and sexual reproduction, etc..) These mechanisms are illustrated by the knowledge acquired from model animals. This is then followed by a step-by-step and comparative description of the mammalian and avian development (gametogenesis, fertilization, cleavage, gastrulation, neurulation, implantation, placentation, organogenesis, ).
Aims :	<p>To understand the unity of the animal kingdom, through the analysis of the basic mechanisms of embryonic development shared by distinct animal phyla. These mechanisms are considered in an evolutionary perspective.</p> <p>To approach the diversity of the animal kingdom, through the description of remarkable and distinctive peculiarities of developmental processes representative of different animal phyla. The link between evolution and development is emphasized.</p> <p>To acquire a more detailed knowledge of the embryonic and fetal development of Vertebrates. A particular focus on Mammals is provided.</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Other infos :	<p>Precursory courses:</p> <ul style="list-style-type: none"> <li>- Biologie animale BIO1111</li> <li>- Compléments de biologie animale BIO1231</li> <li>- Introduction à la génétique BIO1221</li> </ul> <p>Evaluation</p> <ul style="list-style-type: none"> <li>- Oral defence with preparation, about the course content</li> <li>- Oral defence with preparation, about the exercises</li> </ul> <p>Support</p> <ul style="list-style-type: none"> <li>- Course notes in two volumes, by Moens, A. and Rezsohazy, R., UCL; slides files.</li> </ul> <p>Teaching team</p> <ul style="list-style-type: none"> <li>- René Rezsohazy (Prof. Ass.)</li> <li>- Delphine Paul (assistant)</li> </ul>
Cycle and year of study :	<p><a href="#">&gt; Master [60] in Biology</a></p> <p><a href="#">&gt; Master [120] in Biochemistry and Molecular and Cell Biology</a></p> <p><a href="#">&gt; Bachelor in Biology</a></p> <p><a href="#">&gt; Bachelor in Chemistry</a></p>
Faculty or entity in charge:	BIOL