



MODELLO SCHEDA INSEGNAMENTO

Corso di LM	Biologia- Curriculum Biosanitario
Denominazione insegnamento:	Biologia Dello Sviluppo
Numero di Crediti:	6
Semestre:	II
Docente Titolare:	Roberta Imperatore
Dottorandi/assegnisti di ricerca che svolgono attività didattica a supporto del corso:	
Orario di ricevimento:	Giovedì h14-18
Indirizzo:	rimperatore@unisannio.it

PRESENTAZIONE DEL CORSO:

Study of the animal organisms development from the fertilization and zygote formation to the definitive organization of organs and tissues.

GLI OBIETTIVI FORMATIVI

Let the student know the main stages of embryonic development from fertilization to the formation of definitive organs and apparatus with particular attention to humans. Put the student able to identify organs and apparatus by connecting them to the different stages of embryonic development. Getting to know the relationships between the evolutionary processes that led to the current body organization and human embryonic development.

FREQUENZA DELLE LEZIONI

Frequency is recommended as an opportunity to access seminar-simulations of exam and laboratory tests.

CONTENUTI DEL CORSO

Anatomy of female and male reproducer apparatus. Gametogenesis: spermatogenesis and oogenesis. Reproduction endocrinology: hormonal control of female and male reproductions. Fertilization: recognition, fusion and activation of gametes. Segmentation and gastrulation with comparative hints. Organization and destiny of embryonic leaflets during the first few weeks of development. Organogenesis. Branchial apparatus: pharyngeal arches and their derivatives. Digestive system: foregut, midgut and hindgut development. Respiratory system: larynx, trachea, bronchi and lungs development. Urinary system: pronephros, mesonephros, metanephros or mature kidney, bladder and urethra. Genital system: development of male and female gonads and ductus. Circulatory system: heart development, formation of large vessels. Fetal and neonatal circulation. Nervous system: Neural tube development and encephalic vesicles. Autonomic nervous system. Skeletal system: notes on the development of the axile and appendicular skeleton.

METODI DIDATTICI

The course consists mainly of frontal lessons and laboratory tests and seminars for the discussion of an integral part of the course. The methods used will help to deepen the main topics of the course with the possibility to practically approach the various phases of development.

TESTI DI RIFERIMENTO

Amdreuccetti et al. - Biologia Dello Sviluppo - Mg Graw Hill

Moore e Persaud - Lo sviluppo prenatale dell'uomo- EdiSES

ESAME DI PROFITTO

Oral Interview. The questions will enable to evaluate in an unequivocal manner the candidate's preparation on the topics dealt during the course and to evaluate the candidate's ability to clearly illustrate the learning material. The evaluation will be made on the basis of the relevance of the answers to the questions asked and the capacity of linkage between the various stages of development.

CALENDARIO ESAMI

Rinvio al link

PRENOTAZIONE ESAMI

Rinvio al link

MODELLO SYLLABUS

Topics	hours	Bibliographical references	Lesson
<p>Anatomy of female and male reproducer apparatus.</p> <p>Gametogenesis.</p> <p>Reproduction endocrinology.</p> <p>Fertilization.</p> <p>Segmentation and gastrulation.</p> <p>Organization and destiny of embryonic leaflets during the first few weeks of development.</p> <p>Organogenesis.</p> <p>Branchial apparatus.</p> <p>Digestive system.</p> <p>Respiratory system.</p> <p>Urinary system. Genital system. Circulatory system. Fetal and neonatal circulation.</p> <p>Nervous system.</p> <p>Autonomic nervous system. Skeletal system.</p>	40	<p>Amdreuccetti et al. - Biologia Dello Sviluppo - Mg Graw Hill</p> <p>Moore e Persaud - Lo sviluppo prenatale dell'uomo- EdiSES</p>	Frontal
<p>Reconstruction of segmentation and gastrulation representative models.</p> <p>Microscopic observation of the main characteristics of organs and tissues.</p>	8		Laboratory

