

PREPARED MICROSCOPE SLIDES

Helpful for orientation are the slides in blue print which are slides of important specimens which are characteristic and representative of the taxonomic group, or of the subject.

Various slides are available only in small number or have a long delivery period, as their material is either rare or causes unusual difficulties in processing. This applies particularly to the slides marked with an asterisk * for which we cannot guarantee delivery.

EMBRYOLOGY

Embryology of the mussel (Bivalvia, Pelecypoda)

- Em211e Mussel embryology (Lamellibranchiata, Bivalvia or Pelecypoda). Unfertilized and fertilized ova w.m. *
- Em213e Mussel embryology. Zygote, two-cell and four-cell embryos w.m.
- Em215s Mussel embryology. Early zygote through late cleavage. Polar bodies, polar lobes and spiral cleavage *
- Em217e Mussel embryology. Blastula w.m. *
- Em218e Mussel embryology. Gastrula w.m. *
- Em219f Mussel embryology. Trochophore larva w.m. *
- Em221s Mussel embryology. Veliger larvae, early and later stages *
- Em223e Mussel embryology. Veliger larva w.m. *
- Em225e Mussel embryology. Glochidia larva w.m.

Embryology of insecta

- Em301g Acheta, cricket, egg showing maturation division w.m. *
- Em302g Acheta, superficial cleavage *
- Em3021g ... Acheta. first cleavage w.m. *
- Em303g Acheta, superficial cleavage, nuclei migrating to surface *
- Em304g Acheta, w.m. of egg showing formation of germ layer *
- Em305g Acheta, w.m. of egg with young germ *
- Em306g Acheta, w.m. of egg shows early blastokinesis, germ starts to roll in *
- Em307g Acheta, w.m. of egg shows late blastokinesis, germ with limb buds *
- Em308g Acheta, w.m. of egg showing rolling out of the germ *
- Em309f Insect, t.s. of egg showing nuclei migrating to surface, cleavage
- Em310f Insect, t.s. of egg showing superficial cleavage in the blastoderm
- Em311f Insect, t.s. of egg showing young germ with primitive streak
- Em312f Insect, t.s. of egg showing formation of amnion and serosa
- Em313f Insect, t.s. of egg showing fusion of the embryonic envelopes
- Em314f Insect, t.s. of older germ showing process of differentiation in ectoderm and mesoderm
- Em315f Insect, t.s. of older germ in region of head
- Em316g Carausius, walking stick, w.m. of germ with primordium of head, limb buds, neural groove, coelom *
- Em317f Carausius, sagittal l.s. of egg with early germ
- Em318f Carausius, sagittal l.s. of egg with medium germ
- Em319f Carausius, sagittal l.s. of egg with later germ
- Em320f Carausius, sagittal l.s. of egg with germ ready for hatching

Embryology of the sea-urchin (Psammechinus miliaris)

- Em411d Sea-urchin embryology (Psammechinus miliaris), unfertilized eggs w.m.
- Em412d Sea-urchin embryology. Fertilized eggs w.m.
- Em413d Sea-urchin embryology. Two cells w.m.
- Em414d Sea-urchin embryology. Four cells w.m.
- Em415d Sea-urchin embryology. Eight cells w.m.
- Em416d Sea-urchin embryology. Sixteen cells w.m.
- Em417d Sea-urchin embryology. Thirty two cells w.m.
- Em418d Sea-urchin embryology. Morula w.m.
- Em419d Sea-urchin embryology. Blastula w.m.
- Em420d Sea-urchin embryology. Beginning gastrulation w.m.

- Em421d Sea-urchin embryology. Progressive gastrulation w.m.
 Em422d Sea-urchin embryology. Pluteus larva w.m.

Embryology of the starfish (*Asterias rubens*)

- Em431d Starfish embryology (*Asterias rubens*). Ovary t.s. showing ova of large size
 Em432d Starfish embryology. Testis t.s. with developing sperm
 Em434e Starfish embryology. Sperm smear
 Em435e Starfish embryology. Germinal vesicle stage w.m.
 Em436e Starfish embryology. Unfertilized ova w.m.
 Em437e Starfish embryology. Fertilized ova w.m. Zygote with polar bodies
 Em438e Starfish embryology. Two cell stage w.m.
 Em439e Starfish embryology. Four cell stage w.m.
 Em440e Starfish embryology. Eight cell stage w.m.
 Em441e Starfish embryology. Sixteen cell stage w.m.
 Em443e Starfish embryology. Thirty-two cell stage w.m.
 Em444e Starfish embryology. Sixty-four cell stage w.m.
 Em447e Starfish embryology. Early and late blastula w.m.
 Em448e Starfish embryology. Early and late gastrula w.m.
 Em451f Starfish embryology. Early bipinnaria larva w.m.
 Em452f Starfish embryology. Late bipinnaria larva w.m.
 Em456s Starfish embryology. Brachiolaria larva w.m.
 Em458s Starfish embryology. Young starfish w.m.

Embryology of the Amphioxus (*Branchiostoma*)

- Em511g Branchiostoma embryology. Unfertilized ova w.m. *
 Em516k Branchiostoma embryology. Two to sixteen cells stage w.m. *
 Em519g Branchiostoma embryology. Thirty-two and sixty-four cells stage w.m. *
 Em522g Branchiostoma embryology. Blastula stage w.m. *
 Em524g Branchiostoma embryology. Gastrula stage w.m. *
 Em526g Branchiostoma embryology. Early larva w.m. *
 Em528g Branchiostoma embryology. Late larva w.m. *

Embryology of the frog (*Rana sp.*)

- Em601f Frog, uncleaved egg, t.s.
 Em602f Frog, egg, two cells (first cleavage) l.s.
 Em603f Frog, egg, four cells (second cleavage) t.s.
 Em604f Frog, egg, eight cells (third cleavage) l.s.
 Em6045f Frog, egg, sixteen cells l.s.
 Em605f Frog, morula l.s. with micro- and macromeres
 Em606f Frog, blastula l.s. showing blastocoel
 Em607f Frog, early gastrula, sagittal l.s. shows formation of germ layers and dorsal lip
 Em608f Frog, later gastrula (yolk plug stage), sagittal l.s. with germ layers, yolk plug, blastocoel, primary intestinal cavity
 Em609f Frog, early neurula, t.s. shows the neural plate
 Em610f Frog, medium neurula, t.s. shows the neural groove
 Em611f Frog, late neurula with neural tube, t.s. through the intestinal region
 Em612f Frog, late neurula with neural tube, t.s. through the frontal region
 Em613f Frog, late neurula with neural tube, sagittal l.s.
 Em614f Frog, early tail bud stage, t.s. of head region
 Em615f Frog, early tail bud stage, t.s. of body region
 Em616f Frog, early tail bud stage, sagittal l.s.
 Em617g Frog, early tail bud stage, near median sagittal l.s. with forebrain, neural tube, notochord, digestive tract *
 Em618f Frog, late tail bud stage, t.s. of head region
 Em619f Frog, late tail bud stage, t.s. of body region with processes of differentiation in mesoderm
 Em6195f Frog, late tail bud stage, t.s. in region of pronephros
 Em620f Frog, late tail bud stage, frontal l.s. with differentiation of coelom sacs
 Em621f Frog, hatching stage, t.s. of head with developing eyes
 Em622f Frog, hatching stage, t.s. through region of heart, gills
 Em623f Frog, hatching stage, t.s. of midbody
 Em624f Frog, hatching stage, sagittal l.s.

Em625e Frog, young tadpole, t.s. of head
 Em626e Frog, young tadpole, t.s. of gill region
 Em627e Frog, young tadpole, t.s. of abdomen
 Em628f Frog, young tadpole, sagittal sec.
 Em629f Frog, young tadpole, frontal (horizontal) sec.
 Em630e Frog, older tadpole, t.s. of head
 Em631e Frog, older tadpole, t.s. of gill region
 Em632e Frog, older tadpole, t.s. in region of heart and lungs
 Em633e Frog, older tadpole, t.s. of abdomen
 Em6333f Frog, older tadpole, sagittal sec.
 Em634f Frog, older tadpole, section through limb bud

Embryology of the chicken (*Gallus domesticus*)

Em701f Chicken, 12 hour, t.s. through primitive streak
 Em702g Chicken, 12 – 24 hour, l.s. through primitive streak *
 Em703f Chicken, 12 – 24 hour, t.s. with neural plate
 Em704f Chicken, 24 hour, t.s. with neural groove, notochord, germinal layers, somites
 Em7042f Chicken, 24 hour, t.s. head fold region t.s.
 Em7043f Chicken, 24 hour, t.s. intestinal region
 Em7044f Chicken, 24 hour, t.s. pericardial region t.s.
 Em7047f Chicken, 24 hour, l.s.
 Em705f Chicken, 36 hour, t.s. with neural tube, notochord, differentiation of mesoderm
 (myotom, nephrotom and splanchnotom)
 Em706f Chicken, 36 hour, t.s. of anterior region with developing heart (pericardial region)
 Em708g Chicken, 36 – 48 hour, sagittal l.s., formation of the somites *
 Em709f Chicken, 48 hour, t.s. of head
 Em710f Chicken, 48 hour, t.s. region of heart
 Em711f Chicken, 48 hour, t.s. showing neural tube, mesoderm
 Em712g Chicken, 48 hour, sagittal l.s. through primitive node, formation of coelom, Vena terminalis *
 Em713g Chicken, 48 – 60 hour, horizontal l.s. with brain, heart, and somites *
 Em714f Chicken, 60 hour, t.s. of head
 Em715f Chicken, 60 hour, t.s. of heart
 Em716f Chicken, 60 hour, t.s. of abdominal region
 Em717f Chicken, 72 hour, t.s. of brain
 Em718f Chicken, 72 hour, t.s. in region of heart and eyes
 Em719f Chicken, 72 hour, t.s. in caudal region of heart
 Em720f Chicken, 72 hour, t.s. in abdominal region
 Em722g Chicken, 72 hour, horizontal l.s.
 Em723f Chicken, 4 – 5 days, t.s. of head
 Em724f Chicken, 4 – 5 days, t.s. in region of heart and eyes
 Em725f Chicken, 4 – 5 days, t.s. in abdominal region
 Em726g Chicken, 4 – 5 days, sagittal l.s. *
 Em727f Chicken, 8 days, t.s. of brain
 Em728f Chicken, 8 days, t.s. through eyes
 Em729f Chicken, 8 days, t.s. in region of gill slits
 Em730f Chicken, 8 days, t.s. in region of heart and lungs
 Em731f Chicken, 8 days, t.s. in region of intestine and liver
 Em732f Chicken, 8 days, t.s. in region of intestine and kidney
 Em733g Chicken, 8 days, sagittal l.s. of entire specimen *
 Em751h Chicken, 16 hour, w.m. showing primitive streak *
 Em752h Chicken, 18 hour, w.m. *
 Em753i Chicken, 21 hour, w.m. *
 Em754i Chicken, 24 hour, w.m. showing neural groove *
 Em756g Chicken, 28 hour, w.m. showing heart and blood vessels *
 Em758i Chicken, 33 hour, w.m. formation of the somites *
 Em760g Chicken, 40 hour, w.m. flexion of the anterior end *
 Em761i Chicken, 43 hour, w.m. *
 Em762i Chicken, 48 hour, w.m. formation of the coelom *
 Em764h Chicken, 56 hour, w.m. gill arches can be seen *
 Em766t Chicken, 66 hour, w.m. progression of gill arches and other structures *
 Em768k Chicken, 72 hour, w.m. with well developed limb buds *
 Em770t Chicken, 80 hour, w.m. more advanced stage of organ development *

Em772k Chicken, 96 hour, w.m. allantois outside the body *

Embryology of the pig (*Sus scrofa*)

Em811h Pig embryo, 4 mm, sagittal l.s. *

Em813g Pig embryo, 4 mm, typical t.s. *

Em821h Pig embryo, 6 mm, sagittal l.s. *

Em823g Pig embryo, 6 mm, typical t.s. *

Em831h Pig embryo, 8 mm, sagittal l.s.

Em833g Pig embryo, 8 mm, typical t.s.

Em841g Pig embryo, 11 – 12 mm, sagittal l.s.

Em843k Pig embryo, 11 – 12 mm, near median sagittal l.s. *

Em845g Pig embryo, 11 – 12 mm, frontal l.s.

Em846f Pig embryo, 11 – 12 mm, typical t.s.

Em847h Pig embryo, 11 – 12 mm, three typical t.s. through head, thorax and abdomen

Em848k Pig embryos, 6, 8, and 11 mm, three typical t.s. *

Em849k Pig embryos, 6, 8, and 11 mm, three typical sagittal l.s. *

Em851g Pig embryo, 15 mm, sagittal l.s.

Em852k Pig embryo, 15 mm, near median l.s. *

Em853g Pig embryo, 15 mm, frontal l.s.

Em854f Pig embryo, 15 mm, head t.s.

Em855f Pig embryo, 15 mm, thorax t.s.

Em856f Pig embryo, 15 mm, abdomen t.s.

Em858i Pig embryo, 15 mm, three typical t.s. through head, thorax, and abdomen

Em861g Pig embryo, 20 – 25 mm, sagittal l.s.

Em862i Pig embryo, 20 – 25 mm, near median sagittal l.s.

Em863g Pig embryo, 20 – 25 mm, frontal l.s.

Em865f Pig embryo, 20 – 25 mm, head t.s.

Em866f Pig embryo, 20 – 25 mm, thorax t.s.

Em867f Pig embryo, 20 – 25 mm, abdomen t.s.

Em869i Pig embryo, 20 – 25 mm, three typical t.s. through head, thorax, and abdomen

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