

# 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.

## INVERTEBRATES

### Porifera - Sponges

- Po111d ..... Sycon, a small marine sponge of the sycon type, t.s. through the body
- Po112f ..... Sycon, near med. long. sec. through body and osculum
- Po113d ..... Sycon, tangential long. sec.
- Po114d ..... Sycon, thick t.s. with calcareous spicules in situ
- Po115b ..... Sycon, spicules isolated, w.m.
- Po116f ..... Sycon, sec. showing stages of development \*
- Po1165e .... Sycon, l.s. and t.s. on one slide
- Po117d ..... Grantia, a marine sponge of the sycon type, t.s. through the body
- Po118f ..... Grantia, near median long. sec. through body and osculum
- Po119d ..... Grantia, tangential long. sec.
- Po1192e .... Grantia. t.s. and l.s. on one slide
- Po1193d .... Grantia, calcareous spicules, isolated and w.m.
- Po1194e .... Grantia, thick t.s. with calcareous spicules in situ
- Po121d ..... Spongilla, fresh water sponge, t.s. showing choanocytes, incurrent and excurrent channels
- Po122d ..... Spongilla, gemmulae (winter bodies) w.m.
- Po123b ..... Spongilla, siliceous spicules isolated and w.m.
- Po125e ..... Leucosolenia, a simple marine sponge of the ascon type, stained and w.m.
- Po126d ..... Leucosolenia, t.s. through the body
- Po128c ..... Euspongia, a commercial sponge, macerated skeleton shows horny fibres, w.m.
- Po129d ..... Euspongia, typical t.s. through the body
- Po140c ..... Sponge spicules, strewn slide of mixed species w.m.

### Coelenterata

- Co111e ..... Hydra, extended specimen carefully stained for general body study, w.m. showing all details
- Co112f ..... Hydra with bud, w.m. \*
- Co1121f ..... Hydra with bud, l.s.
- Co113d ..... Hydra, t.s. through the body in different levels showing ectoderm with nematocysts, supporting lamella and entoderm
- Co114d ..... Hydra, l.s. through body and tentacles
- Co1141g .... Hydra, median l.s. through basal disc, gastro-vascular cavity, hypostome and tentacles \*
- Co1143e .... Hydra, t.s. and l.s. on one slide
- Co115e ..... Hydra with male gonad (testis), t.s.
- Co1151f ..... Hydra with male gonad (testis), w.m. \*
- Co116e ..... Hydra with female gonad (ovary), t.s.
- Co1161g .... Hydra with female gonad (ovary), w.m. \*
- Co1165s .... Hydra, t.s. of male and female gonads on one slide
- Co117d ..... Hydra, isolated cells w.m. showing the different cell types, nematocysts
- Co118f ..... Hydra with food in the digestive cavity, w.m. \*
- Co119d ..... Hydra with food in the digestive cavity, t.s. through body
- Co1195f ..... Hydra, plain and budding, two specimens w.m.
- Co211d ..... Obelia hydroid, colony of polyps with hydrants and gonothecae, w.m. for general study
- Co212e ..... Obelia medusa, small jellyfish, w.m. for general study
- Co230g ..... Obelia, sec. through budding medusae in different stages \*
- Co213d ..... Plumularia setaceae, colony of polyps w.m.
- Co214d ..... Tubularia larynx, colony of polyps, w.m. or l.s.
- Co233f ..... Tubularia larynx, actinula larva w.m.

Co215d ..... Sertularia cupressina, colony of polyps w.m.  
 Co216d ..... [Campanularia johnstoni, colony of polyps w.m.](#)  
 Co235d ..... Hydractinia, colony of polyps w.m.  
 Co220d ..... Coryne sarsi, colony of polyps showing budding and developing medusae, w.m. \*  
 Co217e ..... Jellyfish, section through the margin of umbrella shows statocysts  
 Co2175g .... Aurelia, jellyfish, planula larva w.m..  
 Co2176g .... Aurelia, scyphistoma w.m. \*  
 Co2177g .... Aurelia, scyphistoma in strobilation, l.s.  
 Co218e ..... [Aurelia, ephyra w.m. \\*](#)  
 Co219d ..... Actinia (Metridium), sea anemone, t.s. through entire young specimen  
 Co2191d .... [Actinia \(Metridium\), sea anemone, l.s. through entire young specimen](#)  
 Co2193e .... Actinia, t.s. and l.s. on one slide  
 Co222d ..... Anemonia, sea anemone, sec. through the tentacles shows nematocysts and zoochlorellae  
 Co225e ..... [Alcyonium digitatum, leathery coral, t.s. of colony](#)  
 Co2252e .... Alcyonium, coral, w.m. of colony  
 Co226c ..... [Lime bodies of different corals, w.m.](#)

### **Annelida - Annelids and Diverse**

An118e ..... [Nereis, marine polychaete worm, w.m. of parapodium](#)  
 An119d ..... Nereis, t.s. of head for general study  
 An120f ..... Nereis, t.s. of head showing brain and eye  
 An121d ..... [Nereis, typical t.s. through the body for general study](#)  
 An127d ..... Arenicola, lugworm, t.s. through the body  
 An128f ..... Sabella, a sessile marine polychaete, t.s. through the body in different levels  
 An130f ..... Magelona, marine polychaete, larva w.m.

### **Rotatoria and Bryozoa - Rotifers and Moss Animals**

Ro111d ..... [Rotatoria, rotifers, strewn slide of mixed species w.m.](#)  
 Ro211e ..... [Plumatella, moss animals, w.m. or section](#)  
 Ro212d ..... [Plumatella, isolated statoblasts w.m.](#)  
 Ro213e ..... [Flustra foliacea, a marine moss animal, section of colony](#)  
 Ro215e ..... Flustrella hispida, moss animal (sea-mat), section of colony  
 Ro214e ..... [Membraniphora, marine moss animal \(sea-mat\), section of colony](#)  
 Ro217e ..... Bugula, moss animal, part of colony w.m.  
 Ro218e ..... Pectinatella, moss animal, part of colony w.m.

### **Crustacea**

Cr111c ..... [Daphnia, water flea, w.m.](#)  
 Cr112c ..... Daphnia, ephippia, w.m.  
 Cr1123c .... Daphnia, w.m. showing winter and summer eggs  
 Cr113c ..... [Cyclops, fresh water copepods, w.m.](#)  
 Cr114c ..... [Cyclops, nauplius larva w.m.](#)  
 Cr120c ..... [Small crustaceans, mixed species of fresh water plankton strewn slide w.m.](#)  
 Cr119d ..... Artemia salina, brine shrimp, various developing stages on each slide, w.m.  
 Cr115d ..... [Balanus balanoides, common barnacle, nauplius larva w.m.](#)  
 Cr122d ..... Bosmina, small crustacean w.m.  
 Cr126d ..... Bythotrephes, a cladoceran w.m.  
 Cr128e ..... Caprella, an amphipod w.m.  
 Cr117e ..... [Carcinus maenas, crab, zoea larva w.m. \\*](#)  
 Cr118e ..... [Carcinus maenas, megalopa larva w.m. \\*](#)  
 Cr124d ..... Cypris of Cirrepedia, cocoon stage, w.m.  
 Cr116e ..... Gammarus, fresh water amphipod, entire specimen w.m.  
 Cr160f ..... Shrimp, entire small specimen w.m.  
 Cr161d ..... [Shrimp, t.s. of small specimen for general study](#)  
 Cr168d ..... [Lepas anatifera, barnacle, w.m. of catching leg](#)  
 Cr169e ..... Lepidurus apus, branchipode, w.m.  
 Cr125d ..... Leptodora, a large cladoceran w.m.  
 Cr167f ..... Lingula, brachiopode, t.s.  
 Cr163e ..... Mysis, shrimp from the Arctic ocean, w.m.  
 Cr123d ..... Podon and Evadne, from marine plankton w.m.  
 Cr150f ..... Statocyst of prawn, organ of equilibration with sensory hairs and statolith  
 Cr135d ..... [Astacus, crayfish, striated muscle l.s., ideal for the demonstration of striation showing large structures](#)

Cr132c ..... [Astacus, gills t.s.](#)  
 Cr142c ..... [Astacus, stomach t.s.](#)  
 Cr134c ..... [Astacus, intestine t.s.](#)  
 Cr137c ..... [Astacus, liver t.s.](#)  
 Cr136c ..... [Astacus, green gland t.s.](#)  
 Cr138d ..... [Astacus, ovary t.s. with developing eggs](#)  
 Cr139e ..... [Astacus, testis t.s. with spermatogenesis](#)  
 Cr1391g ..... [Astacus, testis t.s. specially selected for demonstration of meiosis and mitosis, carefully stained \\*](#)  
 Cr144c ..... [Astacus, sperm duct t.s.](#)  
 Cr131e ..... [Astacus, eye sagittal l.s. \\*](#)  
 Cr141f ..... [Astacus, cerebral ganglion t.s. \\*](#)  
 Cr133d ..... [Astacus, antenna \(decalcified\) t.s.](#)  
 Cr143e ..... [Astacus, pincers \(decalcified\) t.s.](#)  
 Cr140d ..... [Astacus, blood smear](#)  
 Cr1445e ..... [Astacus, t.s. of thoracic region of small specimen](#)  
 Cr1446e ..... [Astacus, t.s. of abdominal region of small specimen](#)  
 Cr1447f ..... [Astacus, near median sagittal l.s. of small specimen](#)  
 Cr165s ..... [Argulus foliaceus, fish louse w.m. \\*](#)

## **Mollusca**

Mo111e ..... [Chiton, a primitive mollusc, t.s. through the body](#)  
 Mo112e ..... [Chiton, sagittal l.s. through the entire specimen](#)  
 Mo116e ..... [Mya arenaria, clam, t.s. of entire young specimen](#)  
 Mo117d ..... [Mya arenaria, liver t.s.](#)  
 Mo119d ..... [Mya arenaria, t.s. and l.s. of gills showing well developed ciliated epithelium](#)  
 Mo120d ..... [Mya arenaria, t.s. of intestine and gonads](#)  
 Mo121d ..... [Mya arenaria, adductor muscle of shell, l.s.](#)  
 Mo122d ..... [Mya arenaria, siphonal tube t.s.](#)  
 Mo123f ..... [Mya arenaria, mussel, filtering stomach t.s. \\*](#)  
 Mo191d ..... [Anodonta, mussel, small specimen, complete t.s.](#)  
 Mo192d ..... [Anodonta, gills w.m.](#)  
 Mo193d ..... [Anodonta, gills l.s.](#)  
 Mo194d ..... [Anodonta, intestinal region t.s.](#)  
 Mo195d ..... [Anodonta, liver t.s.](#)  
 Mo196d ..... [Anodonta, glochidia \(larvae\) w.m.](#)  
 Mo1131e ..... [Mussel embryology \(Lamellibranchiata, Bivalvia or Pelecypoda\) Unfertilized and fertilized ova w.m. \\*](#)  
 Mo1133e ..... [Mussel embryology. Zygote, two- and four-cell embryos w.m. \\*](#)  
 Mo1135s ..... [Mussel embryology. Early zygote through late cleavage. Polar bodies, polar lobes and spiral cleavage](#)  
 Mo1137e ..... [Mussel embryology. Blastula w.m. \\*](#)  
 Mo1138e ..... [Mussel embryology. Gastrula w.m. \\*](#)  
 Mo1139f ..... [Mussel embryology. Trochophore larva w.m. \\*](#)  
 Mo1141s ..... [Mussel embryology. Veliger larvae developing, early and later stages w.m. \\*](#)  
 Mo1143e ..... [Mussel embryology. Adult veliger larva w.m. \\*](#)  
 Mo115e ..... [Mussel embryology. Glochidia larva w.m.](#)  
 Mo123e ..... [Pisidium, a small fresh water mussel, section with embryos](#)  
 Mo131e ..... [Pecten, clam, eye in section of mantle margin](#)  
 Mo185f ..... [Haliotis, marine snail, l.s. of a simple pinhole camera eye \\*](#)  
 Mo187e ..... [Patella, cup-shell. simple eye, l.s.](#)  
 Mo211f ..... [Patella, trochophora larva w.m. \\*](#)  
 Mo212e ..... [Crepidula, marine snail, veliger larva w.m. \\*](#)  
 Mo125f ..... [Alloteuthis, cuttlefish, entire young specimen stained and w.m. \\*](#)  
 Mo130e ..... [Alloteuthis, abdomen of young specimen, t.s.](#)  
 Mo1301f ..... [Alloteuthis, entire young specimen, l.s. for general study](#)  
 Mo126e ..... [Alloteuthis, eye l.s.](#)  
 Mo127d ..... [Alloteuthis, tentacles t.s.](#)  
 Mo1275f ..... [Alloteuthis, gill heart and ink sac, l.s.](#)  
 Mo128d ..... [Alloteuthis, fin t.s.](#)  
 Mo129d ..... [Alloteuthis, tail t.s.](#)  
 Mo141c ..... [Sepia officinalis, cuttlefish, skin with chromatophores, w.m. of piece](#)  
 Mo142c ..... [Sepia officinalis, skin with chromatophores, horizontal section](#)  
 Mo143f ..... [Sepia officinalis, sec. through the ganglion showing giant nerve fibres](#)  
 Mo132d ..... [Octopus, cuttlefish, section through sucking tube](#)  
 Mo151d ..... [Snail, typical t.s. of small specimen for general study](#)

Mo1515e ... Snail, typical l.s. of small specimen for general study  
 Mo152d ..... Snail, sagittal l.s. through the head showing the radula in situ  
 Mo153e ..... Snail, radula w.m.  
 Mo161c ..... Helix pomatia, snail, foot sagittal l.s.  
 Mo162c ..... Helix pomatia, mantle margin sagittal l.s.  
 Mo163c ..... Helix pomatia, oesophagus t.s.  
 Mo164c ..... Helix pomatia, stomach and glands t.s.  
 Mo165c ..... Helix pomatia, intestine t.s.  
 Mo166c ..... Helix pomatia, liver t.s.  
 Mo167d ..... Helix pomatia, albumen gland t.s.  
 Mo168d ..... Helix pomatia, hermaphrodite gland (ovotestis), with ova and spermatozoa, t.s.  
 Mo169d ..... Helix pomatia, spermoviduct t.s.  
 Mo170d ..... Helix pomatia, crystalline style and glands, t.s.  
 Mo171c ..... Helix pomatia, penis t.s.  
 Mo172c ..... Helix pomatia, flagellum t.s.  
 Mo173d ..... Helix pomatia, kidney and heart during the summer, t.s.  
 Mo174d ..... Helix pomatia, kidney and heart during the winter, t.s.  
 Mo175c ..... Helix pomatia, lung t.s.  
 Mo176f ..... Helix pomatia, eye l.s.

### **Echinodermata**

Ec111f ..... Asterias, starfish, young entire specimen w.m. \*  
 Ec113d ..... Asterias, arm t.s., digestive gland and tube feet are shown for general study of all details  
 Ec114e ..... Asterias, horizontal l.s. of entire young specimen  
 Ec115e ..... Asterias, sagittal l.s. of entire young specimen  
 Ec117d ..... Asterias, pedicellaria w.m.  
 Ec251d ..... Starfish embryology (Asterias), ovary t.s. showing large ova in different developing stages  
 Ec252d ..... Starfish embryology, testis t.s. with developing sperm  
 Ec254e ..... Starfish embryology, sperm smear w.m.  
 Ec116e ..... Asterias, bipinnaria larva w.m. \*  
 Ec1162f ..... Asterias, brachiolaria larva w.m. \*  
 Ec101h ..... Asterina gibbosa, small starfish, entire specimen carefully stained and w.m. for general study  
 Ec102e ..... Asterina gibbosa, stages of development w.m.  
 Ec103e ..... Asterina gibbosa, horizontal l.s. of small specimen showing gonads  
 Ec131d ..... Ophiura, serpent star, arm t.s.  
 Ec132d ..... Ophiura, base of arm showing bursa and gonads, t.s.  
 Ec133d ..... Ophiura, horizontal l.s. of disc  
 Ec137f ..... Ophiura, ophiopluteus larva w.m. \*  
 Ec118d ..... Echinus, sea urchin, sagittal l.s. of entire young specimen  
 Ec1183d .... Echinus, sea urchin, radial sec. of entire young specimen  
 Ec1184d .... Echinus, pedicellaria, w.m.  
 Ec1186f ..... Echinus, sea urchin, t.s. of spine, ground thin \*  
 Ec121e ..... Asteroidea sp., larva in metamorphosis w.m. \*  
 Ec141d ..... Cucumaria, sea cucumber, t.s. of small specimen showing the typical structures  
 Ec145e ..... Holothurioidea sp., microsclerites w.m.  
 Ec147f ..... Holothurioidea sp., larva w.m. \*  
 Ec201d ..... Sea urchin embryology (Psammechinus miliaris), unfertilized ova w.m.  
 Ec202d ..... Sea urchin embryology, fertilized ova w.m.  
 Ec203d ..... Sea urchin embryology, two cell stage w.m.  
 Ec204d ..... Sea urchin embryology, four cell stage w.m.  
 Ec205d ..... Sea urchin embryology, eight cell stage w.m.  
 Ec206d ..... Sea urchin embryology, sixteen cell stage w.m.  
 Ec207d ..... Sea urchin embryology, thirty two cell stage w.m.  
 Ec208d ..... Sea urchin embryology, morula w.m.  
 Ec209d ..... Sea urchin embryology, blastula w.m.  
 Ec210d ..... Sea urchin embryology, beginning gastrulation w.m.  
 Ec211d ..... Sea urchin embryology, progressive gastrulation w.m.  
 Ec212d ..... Sea urchin embryology, pluteus larva w.m.  
 Ec213e ..... Sea urchin embryology, strewn slide of various stages w.m.  
 Ec255e ..... Starfish embryology, germinal vesicle stage w.m.  
 Ec256e ..... Starfish embryology, unfertilized ova w.m.  
 Ec257e ..... Starfish embryology, fertilized ova w.m., zygote with polar bodies  
 Ec258e ..... Starfish embryology, two cell stage w.m.

Ec259e ..... Starfish embryology, four cell stage w.m.  
 Ec260e ..... Starfish embryology, eight cell stage w.m.  
 Ec261e ..... Starfish embryology, sixteen cell stage w.m.  
 Ec263e ..... Starfish embryology, thirty-two cell stage w.m.  
 Ec264e ..... Starfish embryology, sixty-four cell stage or morula, w.m.  
 Ec267e ..... Starfish embryology, early and late blastula w.m.  
 Ec268e ..... Starfish embryology, early and late gastrula w.m.  
 Ec271f ..... Starfish embryology, early bipinnaria larva w.m.  
 Ec272f ..... Starfish embryology, late bipinnaria larva w.m.  
 Ec276s ..... Starfish embryology, brachiolaria larva w.m.  
 Ec278s ..... Starfish embryology, young starfish w.m.

### **Enteropneusta**

Ep111g ..... Balanoglossus, acorn worm, sagittal section of proto- and mesosoma \*  
 Ep114f ..... Balanoglossus, region of gills, t.s. \*  
 Ep115f ..... Balanoglossus, region of gonads, t.s. \*  
 Ep116f ..... Balanoglossus, region of liver, t.s. \*  
 Ep117f ..... Balanoglossus, abdominal region, t.s. \*  
 Ep130f ..... Balanoglossus, tornaria larva w.m. \*

### **Tunicata - Ascidians**

Tu105g ..... Ascidia, sea squirt, swimming tadpole w.m. \*  
 Tu106g ..... Ascidia, sea squirt, early metamorphosis w.m. \*  
 Tu107g ..... Ascidia, sea squirt, late metamorphosis w.m. \*  
 Tu111d ..... Ascidia, sea squirt, adult specimen, t.s. in region of gills  
 Tu112d ..... Ascidia, sea squirt, adult specimen, t.s. in region of stomach  
 Tu121e ..... Ascidia, t.s. of mantle to show animal cellulose  
 Tu114e ..... Clavellina, tunicate, l.s. of a small specimen  
 Tu1142d ..... Clavellina, t.s. of gill - intestine region  
 Tu1143d ..... Clavellina, t.s. of stomach - intestine region  
 Tu116f ..... Botryllus schlosseri, tunicate colony, w.m.  
 Tu117d ..... Botryllus, a synascidian, t.s. of colony  
 Tu118e ..... Botryllus, thin l.s. for fine detail  
 Tu119e ..... Botryllus, thick l.s. for general structures  
 Tu211f ..... Salpa, asexual form w.m. \*  
 Tu212f ..... Salpa, sexual form w.m. \*  
 Tu131e ..... Kowalewskia or Oikopleura (class Appendicularia), w.m.  
 Tu214f ..... Phoronis, Actinotrocha-larva, w.m.

### **Acrania - Cephalacordates**

Ac101f ..... Branchiostoma lanceolatum (Amphioxus), w.m. of entire specimen for general body structure, carefully stained  
 Ac103d ..... Branchiostoma, typical t.s. for general study, shows gills, liver and gonads, the standard slide  
 Ac105d ..... Branchiostoma, t.s. selected to show male gonads  
 Ac106d ..... Branchiostoma, t.s. selected to show female gonads  
 Ac107d ..... Branchiostoma, mouth region t.s.  
 Ac108d ..... Branchiostoma, anterior pharynx showing gills and notochord t.s.  
 Ac109d ..... Branchiostoma, posterior pharynx showing liver t.s.  
 Ac110d ..... Branchiostoma, region of intestine t.s.  
 Ac111d ..... Branchiostoma, region of tail t.s.  
 Ac113d ..... Branchiostoma, sagittal l.s. of the body  
 Ac1135e ..... Branchiostoma, frontal section through the spinal cord  
 Ac1142d ..... Branchiostoma, t.s. showing light-sensitive pigment cells  
 Ac1143f ..... Branchiostoma, head region, median l.s.  
 Ac115f ..... Branchiostoma, young larva w.m. \*  
 Ac117s ..... Branchiostoma composite slide, showing t.s. through the regions of mouth, pharynx, intestine, and tail  
 Ac151g ..... Branchiostoma embryology, unfertilized ova w.m. \*  
 Ac156k ..... Branchiostoma embryology, two to sixteen cell stages, w.m. \*  
 Ac159g ..... Branchiostoma embryology, thirty-two and sixty-four cells w.m. \*  
 Ac162g ..... Branchiostoma embryology, blastula stage w.m. \*  
 Ac164g ..... Branchiostoma embryology, gastrula stage w.m. \*  
 Ac166g ..... Branchiostoma embryology, early larva w.m. \*  
 Ac168g ..... Branchiostoma embryology, late larva w.m. \*

## **Onychophora**

- On111f ..... Peripatus, connecting link between annelida and arthropoda, t.s. of anterior region with leg \*
- On112f ..... Peripatus, region of gonads t.s. \*
- On113f ..... Peripatus, region of head t.s. \*
- On114g ..... Peripatus, anterior end sagittal l.s. \*
- On115g ..... Peripatus, middle part of the body, sagittal l.s. \*

## **Rotatoria and Bryozoa**

- Ro111d ..... Rotatoria, rotifers, strewn slide of mixed species w.m.
- Ro211e ..... Plumatella, moss animals, w.m. or section
- Ro212d ..... Plumatella, isolated statoblasts w.m.
- Ro213e ..... Flustra foliacea, a marine moss animal, section of colony
- Ro215e ..... Flustrella hispida, moss animal (sea-mat), section of colony
- Ro214e ..... Membraniphora, marine moss animal (sea-mat), section of colony
- Ro217e ..... Bugula, moss animal, part of colony w.m.
- Ro218e ..... Pectinatella, moss animal, part of colony w.m.

## **Arachnida and Chelicerates**

- Ar111e ..... Spider, entire young specimen, w.m.
- Ar112b ..... Spider, leg with comb, w.m.
- Ar113d ..... Spider, spinneret w.m.
- Ar114d ..... Araneus, cross spider, spinneret w.m.
- Ar123e ..... Spider, mouth parts of male w.m.
- Ar124e ..... Spider, mouth parts of female w.m.
- Ar120f ..... Spider, epigyne of adult female w.m. \*
- Ar125d ..... Spider, sagittal l.s. of abdomen for general study
- Ar126e ..... Spider, sagittal l.s. of abdomen showing spinneret and spinning glands
- Ar127e ..... Spider, sagittal l.s. of abdomen showing the book or trachea lung
- Ar1272f ..... Spider, sagittal l.s. of abdomen with epigyne and ovary
- Ar1273g ..... Spider, sagittal l.s. of abdomen showing l.s. of the dorsal vessel
- Ar128f ..... Spider, t.s. of cephalothorax showing the central nervous system
- Ar1281f ..... Spider, cephalothorax with central nervous system l.s.
- Ar129g ..... Salticus, spider, sec. of cephalothorax showing the telescope eyes \*
- Ar130b ..... Spider, portion of cobweb w.m.
- Ar171d ..... Opilio sp., shepherd spider, sagittal l.s. of the body
- Ar172e ..... Opilio sp., mouth parts w.m.
- Ar131c ..... Scorpion, t.s. through young specimen
- Ar132d ..... Scorpion, sagittal l.s. through young specimen
- Ar133e ..... Scorpion, section selected to show the poison gland
- Ar134e ..... Scorpion, section selected to show the book lung
- Ar138g ..... Scorpion, entire young specimen w.m. \*
- Ar1545g ..... Amblyomma americanum, lone star tick, w.m. \*
- Ar141g ..... Argas persicus, fowl tick, w.m. of adult specimen \*
- Ar142f ..... Argas, six-legged larva w.m.
- Ar154s ..... Boophilus annulatus, cattle tick, the vector of Texas fever, w.m. \*
- Ar156g ..... Dermacentor andersoni, Rocky Mountain wood tick, the vector of spotted fever, w.m. \*
- Ar157e ..... Dermacentor andersoni, ova w.m. \*
- Ar158f ..... Dermacentor andersoni, larva w.m. \*
- Ar155s ..... Dermacentor variabilis, American dock tick, w.m. \*
- Ar146g ..... Ixodes sp., tick, w.m. of adult specimen \*
- Ar147e ..... Ixodes sp., larva w.m.
- Ar144g ..... Ornithodoros, tick, carrier of relapsing fever, w.m. adult \*
- Ar1442g ..... Ornithodoros, six-legged larva w.m. \*
- Ar159s ..... Rhipicephalus sanguineus, brown dog tick, w.m. \*
- Ar153e ..... Demodex folliculorum, section through the skin with the parasites in situ
- Ar145d ..... Dermanyssus gallinae, chicken mite, w.m. \*
- Ar1513d ..... Hydrachna, mite of fresh water, w.m.
- Ar1512d ..... Photia, beetle mite, w.m.
- Ar148e ..... Sarcoptes scabiei (Acarus siro), in section of diseased skin
- Ar149f ..... Sarcoptes scabiei, w.m. of adult specimen \*
- Ar1517g ..... Syringophilus, parasitic mite of poultry, w.m.
- Ar150c ..... Tyroglyphus farinae, mite from meal, w.m.

- Ar151c ..... Tyrolichus, cheese mite w.m.  
 Ar1515e ..... [Varroa, parasitic mite of bees w.m.](#)  
 Ar161g ..... Pseudoscorpion, w.m. of entire specimen \*  
 Ar180s ..... Limulus, swordtail, trilobite larva w.m., the trilobite shaped larva is of interest for studies in phylogeny \*

### **Myriapoda**

- My111d ..... Scolopendra, large centipede, t.s. of body segment  
 My112e ..... Scolopendra, head with poison glands t.s.  
 My115f ..... Lithobius, head with poison fangs, w.m. \*  
 My117e ..... Lithobius, centipede, segment w.m.  
 My118e ..... Lithobius, head, t.s.  
 My119d ..... Lithobius, midbody, t.s.  
 My211d ..... Julus, a millipede, t.s. through the body  
 My212e ..... Julus, diplosegment with two pairs of legs, w.m.  
 My213f ..... Julus, head with mouth parts (gnathochilarium) w.m. \*  
 My218d ..... Glomeris, sagittal l.s. of entire specimen \*  
 My220g ..... Diplopode, sagittal l.s. through young specimen showing the zone of proliferation (anamorphose) \*  
 My221f ..... Julus, millipede, accumulation of ocelli l.s. \*  
 My225f ..... Scutigera, simple compound eye of a pantopode, l.s. \*  
 My230d ..... Symphyla, entire specimen w.m. \*

### **Insecta - I. Microscopic anatomy and histology - Head and mouth parts, whole mounts**

- In111d ..... [Musca domestica, house fly, head and mouth parts with sucking tube, w.m.](#)  
 In112e ..... [Pieris sp., butterfly, head and mouth parts with proboscis w.m.](#)  
 In1123d ..... Pieris sp., mouth parts of caterpillar (larva) w.m.  
 In121d ..... Bombyx mori, silk moth, chewing mouth parts of adult w.m.  
 In1213d ..... [Bombyx mori, silkworm, mouth parts of caterpillar \(larva\) w.m.](#)  
 In122d ..... [Apis mellifica, honey bee, mouth parts of worker w.m.](#)  
 In123e ..... Apis mellifica, rudimentary mouth parts of drone w.m.  
 In114e ..... Vespa vulgaris, wasp, biting mouth parts of a carnivore, w.m.  
 In118f ..... [Periplaneta or Blatta, cockroach, biting mouth parts of a herbivore, dissected and w.m.](#)  
 In115f ..... [Carabus, beetle, mouth parts dissected and w.m. \\*](#)  
 In116f ..... Melolontha, cockchafer, mouth parts dissected and w.m.  
 In113e ..... Gomphocerus, grasshopper, mouth parts w.m.  
 In1132g ..... Gomphocerus, grasshopper, mouth parts dissected and w.m.  
 In119d ..... [Formica sp., ant, head and mouth parts w.m.](#)  
 In1193e ..... Leptinotarsa, Colorado beetle, w.m. of chewing mouth parts  
 In131e ..... Curculionidae sp., weevil, head and mouth parts w.m.  
 In117e ..... [Pyrrhocoris, bug, piercing sucking mouth parts w.m.](#)  
 In120e ..... Stomoxys calcitrans, stable fly, piercing sucking mouth parts  
 In1201e ..... Tabanus bovinus, gadfly, piercing sucking mouth parts w.m. \*  
 In1234d ..... Volucella, Diptera, piercing sucking mouth parts w.m.  
 In124f ..... [Anopheles, malaria mosquito, head and mouth parts of male w.m.](#)  
 In125f ..... [Anopheles, head and mouth parts of female w.m.](#)  
 In126e ..... [Culex pipiens, mosquito, head and mouth parts of male w.m.](#)  
 In127e ..... [Culex pipiens, head and mouth parts of female w.m.](#)  
 In128h ..... Culex pipiens, mouth parts of female, dissected and w.m. \*  
 In130f ..... Odonata sp., dragonfly, mouth parts of larva w.m. \*  
 In132e ..... Lymantria, gipsy, mouth parts of larva w.m.  
 In1322f ..... Diving beetle, head of larva w.m. Extraintestinal digestion \*  
 In1323e ..... Simulium, head of larva w.m. shows filtering mouth parts

### **Head and mouth parts, sections**

- In273e ..... Carausius, sagittal l.s. of head with brain and mouth parts  
 In274e ..... Apis mellifica, honey bee, sagittal l.s. of head with brain and mouth parts  
 In141e ..... Musca domestica, house fly, mouth parts, t.s. through sucking tube  
 In148e ..... Apis mellifica, honey bee, mouth parts of worker t.s.  
 In143e ..... Pieris brassicae, butterfly, mouth parts t.s.  
 In149g ..... Culex pipiens, mosquito, mouth parts of female t.s. with mandibles, labrum, maxillae, labium, hypopharynx  
 In142e ..... Tabanus bovinus, gadfly, mouth parts t.s.  
 In144e ..... Hemiptera sp., bug, mouth parts t.s.  
 In145g ..... Aphaniptera sp., flea, piercing mouth parts t.s. \*

## **Antennae**

- In213b ..... *Pieris*, butterfly, clubbed antenna w.m.
- In206b ..... *Carabus*, ground beetle, filiform antenna w.m.
- In203b ..... *Periplaneta* or *Blatta*, cockroach, setaceous antenna w.m.
- In204b ..... *Tenebrio molitor*, meal beetle, moniliform antenna w.m.
- In214b ..... *Bombyx mori*, silk moth, feathered antenna w.m.
- In208b ..... *Chironomus*, gnat, feathered antenna of male w.m.
- In205b ..... *Elateridae* sp., click beetle, serrate antenna w.m. \*
- In207b ..... *Curculionidae* sp., weevil, geniculate antenna w.m. \*
- In209c ..... *Brachycera* sp., fly, antenna as speed indicator w.m. \*
- In211b ..... *Melolontha*, cockchafer, laminate antenna with sensory organs
- In212b ..... *Apis mellifica*, honey bee, antenna with sensory organs w.m.
- In2125b ..... *Musca domestica*, house fly, antenna w.m.
- In2142c ..... Antennae of butterfly (clubbed) and of moth (feathered) w.m.
- In2146u ..... Insect antenna types, composite slide of five kinds of antennae for comparison w.m.

## **Legs**

- In217b ..... *Musca domestica*, house fly, leg with pulvilli w.m.
- In219b ..... *Pieris brassicae*, butterfly, walking leg w.m.
- In220c ..... *Melolontha*, cockchafer or other species, digging leg w.m.
- In215b ..... *Apis mellifica*, honey bee, anterior leg with eye brush w.m.
- In2152b ..... *Apis mellifica*, middle leg w.m.
- In216b ..... *Apis mellifica*, posterior leg with pollen basket w.m.
- In2161b ..... *Apis mellifica*, posterior leg of drone w.m.
- In2162f ..... *Apis mellifica*, composite slide of anterior, middle and posterior leg of worker, w.m.
- In218b ..... *Bombyx mori*, silkworm, abdominal foot of caterpillar
- In223c ..... *Gomphocerus*, grasshopper, stridulatory organ w.m. of leg
- In224d ..... *Ensifera* sp., locust or cricket, anterior leg with tympanal organ w.m.\*
- In225d ..... *Mantis religiosa*, praying mantis, grasping leg of larva w.m. \*
- In226b ..... Diving beetle or water bug, swimming leg w.m.

## **Wings**

- In235b ..... *Musca domestica*, house fly, wing w.m.
- In2351d ..... *Musca domestica*, house fly, wing and haltere w.m.
- In231c ..... *Apis mellifica*, honey bee, anterior and posterior wings w.m.
- In234b ..... *Culex pipiens*, common mosquito, wing w.m.
- In2342b ..... *Anopheles*, malaria mosquito, wing w.m.
- In228c ..... *Chrysopa perla*, wing of neuroptera w.m. \*
- In227c ..... *Zygoptera* sp., damselfly, wings w.m.
- In229e ..... *Periplaneta*, cockroach, upper chitinous and lower membranous wings w.m.
- In2292d ..... *Gomphocerus*, grasshopper, w.m. of upper and lower wing
- In2352d ..... *Forficula*, earwig, w.m. of upper and lower wing
- In230d ..... *Ensifera* sp., locust or cricket, wing with stridulatory organ w.m. \*
- In232b ..... *Pieris brassicae*, butterfly, portion of wing showing arrangement of scales w.m.
- In233b ..... *Pieris brassicae*, butterfly, isolated scales w.m.
- In2332e ..... Butterfly, Brazilian species (*Morpho* sp.), w.m. of wing portion showing scales opaque
- In2334d ..... *Lepisma*, silverfish, w.m. of scales from body

## **Cytology**

- In238f ..... Spermatogenesis with meiotic and mitotic stages, sec. of testis of *Carausius*, grasshopper, carefully stained
- In245f ..... Giant chromosomes, smear from salivary gland of *Chironomus*, carefully fixed and stained \*
- In2451e ..... Giant chromosomes in section through the salivary glands of the *Chironomus* larva
- In246f ..... Striated muscles of insect, fibres isolated and stained to show the striations w.m.
- In247e ..... Striated muscles of insect, sections through insect thorax with t.s. and l.s. of muscle showing the striations

## **Organs of metabolism**

- In241b ..... Trachea from insect, w.m. showing tracheal rings
- In242c ..... Spiracle from insect (stigma), w.m.
- In248d ..... Tracheal gills, w.m. of *Cloeon* sp., May fly nymph
- In298c ..... Tracheal gills of larva, w.m. of *Odonata* sp., dragonfly
- In285d ..... Rectum of larva, respiratory organ, t.s. of *Odonata* sp., dragonfly

- In2852d ..... Air tubes of pupa of *Culex*, mosquito, w.m.  
 In2411h ..... Trachea in insect intestine, specially prepared and stained with cupric sulphide to show the finest branchings \*  
 In289e ..... Blood smear with different kinds of blood cells, *Carausius*  
 In254d ..... Abdomen of worker with intestine, *Apis mellifica*, t.s.  
 In270d ..... Abdomen with internal organs, t.s. of *Carausius*, walking stick  
 In263d ..... Abdomen, t.s. *Culex pipiens*  
 In266d ..... Abdomen, t.s. of *Drosophila*, fruit fly  
 In281d ..... Gizzard, t.s. of *Carabus*, ground beetle  
 In2813e ..... Opened gizzard, w.m. *Locusta*, grasshopper  
 In239e ..... Gizzard with chitinous teeth, w.m. of *Periplaneta*, cockroach  
 In282d ..... Chyle and middle intestine with Malpighian tubules, l.s. of *Periplaneta* (*Blatta*)  
 In284d ..... Rectum with ampulli, t.s. of *Periplaneta*  
 In287g ..... Fat body stained with osmic acid, sec. of *Periplaneta*, cockroach  
 In288d ..... Fat body with crystals of uric acid, sec. of *Periplaneta*, cockroach  
 In283d ..... Appendages of chyle and Malpighian tubules, thin t.s. for finer detail

### **Reproductive system**

- In255e ..... Testis, in t.s. of abdomen of drone, *Apis mellifica*  
 In256e ..... Ovary, in t.s. of abdomen of queen, *Apis mellifica*  
 In236e ..... Ovary, in t.s. of *Melolontha*, cockchafer  
 In2365e ..... Ovary, in t.s. of abdomen of *Carausius*, walking stick  
 In2367g ..... Aedeagus of beetle w.m., male copulating organ  
 In290f ..... Ovary of insect showing panoistic egg tubules, l.s.  
 In291f ..... Ovary of insect showing telotrophic egg tubules, l.s.  
 In292f ..... Ovary of insect showing polytrophic egg tubules, l.s.  
 In299e ..... Ovipositor of locust or cricket t.s.  
 In2912e ..... Incomplete metamorphosis of insects: larva  
 In2913e ..... Incomplete metamorphosis of insects: imago (adult)  
 In2914d ..... Complete metamorphosis of insects: larva  
 In2915d ..... Complete metamorphosis of insects: pupa  
 In2916d ..... Complete metamorphosis of insects: imago (adult)

### **Sense organs and nervous system**

- In243c ..... Cornea, isolated from eye of house fly, w.m. showing facets  
 In2434c ..... Cornea, isolated from eye of honey bee, w.m. showing facets  
 In251e ..... Compound eye, t.s. through head of worker (*Apis mellifica*), showing the structure of the typical insect eyes and brain. Ommatidia are seen.  
 In252f ..... Compound eye, t.s. through head showing the large eyes of drone (*Apis mellifica*)  
 In253f ..... Compound eye, t.s. through head of queen (*Apis mellifica*)  
 In249d ..... Ocelli of *Apis mellifica*, honey bee, w.m.  
 In2492e ..... Ocelli of an insect, l.s.  
 In275e ..... Compound eye, t.s. through head of *Apis mellifica*, tangential section showing t.s. of ommatidia  
 In261e ..... Head with eyes and brain, t.s. of *Culex pipiens*, mosquito  
 In265e ..... Head with eyes and brain, t.s. of *Drosophila*, fruit fly  
 In2675e ..... Compound eye, t.s. of *Musca domestica*, fly  
 In276f ..... Head and eyes, t.s. of *Cloeon* or *Baetis*, May fly  
 In2765f ..... Head and eyes, t.s. of *Melolontha*, cockchafer  
 In271e ..... Brain, frontal l.s. of *Carausius* or *Gryllus*  
 In272e ..... Brain, frontal l.s. of *Vespa vulgaris*, wasp  
 In277h ..... Pars intercerebralis with neurosecretory cells specially stained, *Carausius*, walking stick, section of brain \*  
 In278h ..... Corpora cardiaca, organs for storing neurosecretes, *Carausius*, section through brain \*  
 In2781h ..... Corpora allata, neuroendocrine glands, *Carausius*, section \*  
 In2784f ..... Sensory organs in the antenna of an insect, t.s. for finer detail  
 In279k ..... Johnston's organ, l.s. through insect auditory organ \*  
 In294f ..... Luminous organ, sec. of *Phausis*, glowworm  
 In295e ..... Stridulatory organ, sec. of *Cicada* sp. \*  
 In2833f ..... Insect larva with non-centralized nervous system, sagittal l.s. \*  
 In2834f ..... Insect with low centralized nervous system, sagittal l.s. \*  
 In2835f ..... Insect with high centralized nervous system, sagittal l.s. \*

### **Miscellaneous**

- In244d ..... Sting and poison sac of honey bee, w.m.

- In260c ..... Wax plate of worker of *Apis mellifica*, w.m.  
 In237d ..... Silk spinning glands and other organs, t.s. of caterpillar of *Bombyx mori*, silkworm  
 In2943d ..... Forceps of male of *Forficula*, earwig, w.m.  
 In258d ..... Larva of *Apis mellifica*, sagittal l.s.  
 In259e ..... Pupa of *Apis mellifica*, sagittal l.s.  
 In262d ..... Thorax of *Culex pipiens*, t.s.  
 In267f ..... Entire insect, sagittal l.s. of *Drosophila*, fruit fly, showing all structures for general study  
 In2993e ..... Parasitical larvae of microgaster, in t.s. of infested caterpillar

## **II. Whole mounts of entire insects - Apterygota and Ephemeroidea**

- In348d ..... *Collembola*, spring tail, adult w.m.  
 In3985d ..... *Podura*, spring tail, adult w.m.  
 In3986d ..... *Thysanura* sp., bristle tail, adult w.m.  
 In353e ..... *Caenis*, May fly, adult w.m.  
 In354e ..... *Caenis*, subimago w.m.  
 In355d ..... *Caenis*, larva w.m.

## **Diptera**

- In321f ..... *Culex pipiens*, common mosquito, adult male w.m.  
 In322f ..... *Culex pipiens*, adult female w.m.  
 In323d ..... *Culex pipiens*, pupa w.m.  
 In324d ..... *Culex pipiens*, larva w.m.  
 In3242d ..... *Culex pipiens*, ova w.m.  
 In316g ..... *Anopheles*, malaria mosquito, adult male w.m.  
 In317g ..... *Anopheles*, adult female w.m.  
 In318f ..... *Anopheles*, pupa w.m.  
 In319f ..... *Anopheles*, larva w.m.  
 In3192e ..... *Anopheles*, ova w.m.  
 In320g ..... *Anopheles* and *Culex pipiens*, both the larvae on same slide for comparison, w.m.  
 In311d ..... *Drosophila*, fruit fly, adult male w.m.  
 In312d ..... *Drosophila*, adult female w.m.  
 In313d ..... *Drosophila*, larva w.m.  
 In314d ..... *Drosophila*, pupa w.m.  
 In387e ..... *Chironomus*, gnat, w.m. of adult  
 In340d ..... *Chironomus*, gnat, larva w.m.  
 In341d ..... *Corethra*, gnat, larva w.m.  
 In389f ..... *Aedes*, mosquito, adult male w.m.  
 In390f ..... *Aedes*, adult female w.m.  
 In391e ..... *Aedes*, pupa w.m.  
 In392e ..... *Aedes*, larva w.m.  
 In393e ..... *Aedes*, ova w.m.  
 In397e ..... *Musca domestica*, house fly, larva w.m.  
 In398d ..... *Musca domestica*, ova w.m.  
 In394f ..... *Phlebotomus*, carrier of Leishmaniosis, male mosquito w.m. \*  
 In395f ..... *Phlebotomus*, female mosquito w.m. \*  
 In3956f ..... *Culicoides*, w.m., a small vicious biter  
 In3957f ..... *Gasterophilus intestinalis*, horse bot fly, eggs attached to hair  
 In3294f ..... *Lipoptena*, deer ked, w.m. \*

## **Aphaniptera**

- In3341e ..... *Ctenocephalus canis*, male or female specimen w.m.  
 In333e ..... *Ctenocephalus canis*, dog flea, adult male w.m.  
 In334e ..... *Ctenocephalus canis*, adult female w.m.  
 In3365g ..... *Pulex irritans*, human flea, adult male w.m. \*  
 In3366g ..... *Pulex irritans*, adult female w.m. \*  
 In335g ..... *Xenopsylla cheopis*, rat flea, the carrier of bubonic plague, adult male w.m.  
 In336g ..... *Xenopsylla cheopis*, adult female w.m.  
 In337e ..... *Nosopsyllus fasciatus*, rat flea, adult w.m.  
 In343e ..... *Ceratophyllus gallinulae*, chicken flea, w.m. of adult

## **Blattoidea and Hymenoptera**

- In365g ..... *Mantis religiosa*, praying mantis, larva w.m. \*

In367f ..... Isoptera sp., termite, w.m. of worker \*  
In368f ..... Isoptera sp., termite, w.m. of soldier  
[In315d ..... Lasius, ant, worker w.m.](#)  
In3151e ..... Lasius, winged male w.m.  
In3152d ..... Lasius, winged female w.m.  
In385e ..... Chalcididae, w.m. of adult \*

### **Anoplura and Mallophaga**

[In325f ..... Pediculus humanus, louse, adult male or female w.m.](#)  
In3252f ..... Pediculus humanus capitis, human head louse, adult w.m.  
In3254f ..... Pediculus humanus capitis, nymph w.m.  
In3255e ..... Pediculus humanus capitis, ova w.m.  
In3256f ..... Pediculus humanus corporis, human body louse, adult w.m.  
In3258f ..... Pediculus humanus corporis, nymph w.m.  
In3259e ..... Pediculus humanus corporis, ova w.m.  
In326g ..... Phthirus pubis, human crab louse, adult w.m. \*  
In3262s ..... Phthirus pubis, ova w.m.  
[In327e ..... Louse eggs attached to the hair, w.m. \\*](#)  
[In328f ..... Haematopinus suis, pig louse, adult w.m. \\*](#)  
In3282e ..... Haematopinus suis, ova w.m.  
In3284f ..... Haematopinus eurysternus, cattle louse, adult w.m. \*  
In329f ..... Haematopinus piliferus, dog louse, adult w.m. \*  
In3271g ..... Bovicola, cattle louse, w.m. \*  
In3275f ..... Trichodectes canis, dog louse, w.m. \*  
[In3272f ..... Lipeurus variabilis, wing feather louse, w.m. \\*](#)  
In3273f ..... Lipeurus caponis, wing louse, w.m. \*  
[In3274f ..... Menopon gallinae, bird parasite, w.m. \\*](#)  
In3276f ..... Melophagus ovinus, wingless ectoparasite on sheep, w.m. \*  
In381e ..... Phthiraptera, lice from rat, different species w.m. \*

### **Heteroptera and Homoptera**

[In330f ..... Cimex lectularius, bed bug, adult w.m.](#)  
In374d ..... Naucoridae sp., water bug, w.m. of small adult  
In375d ..... Capsidae sp., plant bug, w.m. of adult  
[In339c ..... Aphidae sp., plant lice, w.m. of several per slide](#)  
In3394e ..... Phylloxera sp., vine louse, w.m.  
In377d ..... Psylla, plant flea, w.m. of adult

### **Diverse orders**

In338d ..... Lepidoptera sp., butterfly, young caterpillar w.m.  
In356d ..... Nemura sp., stone fly, adult w.m.  
In357d ..... Nemura sp., larva w.m.  
In361g ..... Embia sp., adult w.m. \*  
In362e ..... Forficula auricularia, earwig, adult w.m.  
In371d ..... Thysanoptera, thrips, w.m. of adult

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