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INVERTEBRATE ZOOLOGY - INSECT PARTS MICROSCOPE SLIDES

I. Microscopic Anatomy and Histology - Head and Mouth Parts, Whole Mounts

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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, stridulary 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

CAT.#	DESCRIPTION	QTY
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 stridulary 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, Brasilian species (Morpho sp.), w.m. of wing portion showing scales opaque	
In2334d	Lepisma, silverfish, w.m. of scales from body	

Cytology

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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	Stridulary 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

CAT.#	DESCRIPTION	QTY
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

CAT.#	DESCRIPTION	QTY
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.	

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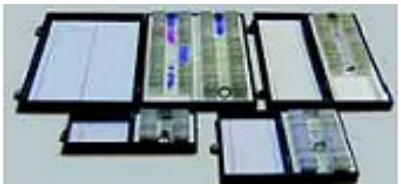

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