

Braconidae (Hymenoptera) in the collection of the Institute of Zoology,
NAS of Azerbaijan Republic Part V. Subfamilies Chardichilinae,
Microgasterinae and Miracinae

With 1 map

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Abstract

We present some faunistic records of braconids of the subfamilies Chardichilinae (genus *Cardiochiles*), Microgasterinae (genera *Microplitis*, *Microgaster*, *Choeras*, *Cotesia*, *Protopanteles*, *Apanteles*), and Miracinae (*Mirax*) deposited in the collection of the Institute of Zoology of the National Academy of Sciences of Azerbaijan, Baku. Localities in Azerbaijan, general distribution, and remarks on hosts are given for each taxon. Specimens of 28 species originally represented in the collection are now held by ZIN (Zoological Institute of the RAS) and are not covered further in this paper. They are the following: *Apanteles albipennis* (NEES, 1834), *Apanteles lateralis* (HALIDAY, 1834), *Apanteles sublateralis* TOBIAS, 1976, *Apanteles rufulus* TOBIAS, 1964, *Apanteles subfirmus* ABDINBEKOVA 1969, *Apanteles znoikoi* TOBIAS 1976, *Apanteles albinervis* TOBIAS, 1964, *Apanteles girkanus* TOBIAS 1976, *Apanteles negativus* TOBIAS 1976, *Apanteles submarginatus* ABDINBEKOVA, 1969, *Apanteles varifemur* ABDINBEKOVA, 1969, *Apanteles brunnistigma* ABDINBEKOVA, 1969, *Apanteles masallensis* ABDINBEKOVA, 1969, *Apanteles kubensis* ABDINBEKOVA, 1969, *Apanteles samedovi* ABDINBEKOVA, 1969, *Apanteles carpatus* (SAY, 1836), *Apanteles anarsiae* FAURE & ALABOUVETTE, 1924, *Cotesia subordinaria* (TOBIAS, 1976), *Cotesia rubripes* (HALIDAY, 1834), *Cotesia rufiventris* (BINGHAM, 1906), *Cotesia shemachaensis* (TOBIAS, 1976), *Protopanteles pallipes* (REINHARD 1880), *Protopanteles compressiventris* (MUESEBECK 1921), *Microplitis ochraceus* SZÉPLIGETI, 1896, *Microplitis erythrogaster* ABDINBEKOVA, 1969, *Deuterixys rimulosa* (NIEZABITOWSKI, 1910), *Glyptapanteles inclusus* (RATZEBURG, 1844), *Iconella subcamilla* (TOBIAS, 1976).

Key words

Hymenoptera, Braconidae, Chardichilinae, Microgasterinae, Miracinae, Azerbaijan

Zusammenfassung

In dieser Arbeit sind faunistische Nachweise von Braconiden der Unterfamilien Chardichilinae (Gattung *Cardiochiles*), Microgasterinae (Gattungen *Microplitis*, *Microgaster*, *Choeras*, *Cotesia*, *Protopanteles*, *Apanteles*) und Miracinae (*Mirax*) zusammengestellt, die in der Sammlung des Instituts für Zoologie der Nationalen Akademie der Wissenschaften Aserbaidschans, Baku, aufbewahrt werden. Fundorte in Aserbaidshan, allgemeine Verbreitung und Bemerkungen zu Wirten sind für jede Art angegeben. Belege von 28 ursprünglich in der Sammlung vertretenen Arten sind nun im ZIN (Zoologisches Institut der Russischen Akademie der Wissenschaften) aufbewahrt und werden in dieser Arbeit nicht

weiter behandelt. Das sind: *Apanteles albipennis* (NEES, 1834), *Apanteles lateralis* (HALIDAY, 1834), *Apanteles sublateralis* TOBIAS, 1976, *Apanteles rufulus* TOBIAS, 1964, *Apanteles subfirmus* ABDINBEKOVA 1969, *Apanteles znoikoi* TOBIAS 1976, *Apanteles albinervis* TOBIAS, 1964, *Apanteles girkanus* TOBIAS 1976, *Apanteles negativus* TOBIAS 1976, *Apanteles submarginatus* ABDINBEKOVA, 1969, *Apanteles varifemur* ABDINBEKOVA, 1969, *Apanteles brunnistigma* ABDINBEKOVA, 1969, *Apanteles masallensis* ABDINBEKOVA, 1969, *Apanteles kubensis* ABDINBEKOVA, 1969, *Apanteles samedovi* ABDINBEKOVA, 1969, *Apanteles carpatus* (SAY, 1836), *Apanteles anarsiae* FAURE & ALABOUVETTE, 1924, *Cotesia subordinaria* (TOBIAS, 1976), *Cotesia rubripes* (HALIDAY, 1834), *Cotesia rufiventris* (BINGHAM, 1906), *Cotesia shemachaensis* (TOBIAS, 1976), *Protapanteles pallipes* (REINHARD 1880), *Protapanteles compressiventris* (MUESEBECK 1921), *Microplitis ochraceus* SZÉPLIGETI, 1896, *Microplitis erythrogaster* ABDINBEKOVA, 1969, *Deuterixys rimulosa* (NIEZABITOWSKI, 1910), *Glyptapanteles inclusus* (RATZBURG, 1844) und *Iconella subcamilla* (TOBIAS, 1976).

Introduction

In the insect collection of the Institute of Zoology NAS of Azerbaijan the braconid subfamily Chardichilinae is represented by three species in one genus, the Microgasterinae by 66 species in seven genera, and the Miracinae by one species in one genus. We have included a brief summary of the total world distribution and host range for each species. A map showing collection areas in Azerbaijan is presented. The main literature used for taxonomic analysis was ABDINBEKOVA (1969, 1995) and TOBIAS et al. (1986).

Subfamily Cardiochilinae

Genus *Cardiochiles* NEES VON ESENBECK, 1818

Cardiochiles desertus TELENGA 1955

Material: Nakhichevan AR, 2.VI.1967, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: North Africa, Europe (TELENGA 1955), Central Asia, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1995).

Cardiochiles fumatus TELENGA 1949

Material: dist. Masally, 15.VII.1965, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: Central Asia, Afganistan, Azerbaijan (TELENGA 1949).

Cardiochiles fallax KOKUJEV, 1895

Material: dist. Goychay, 16, 18.VII.1964, 1 ♀, leg. Abdinbekova.

Host: *Myrleae marmorata* ALPHERAKY, 1877 (Pyralidae) (TOBIAS et al. 1986).

Distribution: Europe, Russia, Turkey, Ukraine, Central Asia, Caucasus (KOKUJEV 1895, TOBIAS et al. 1986, ABDINBEKOVA 1995).

Subfamily Microgasterinae

Genus *Microplitis* FÖRSTER, 1862

Microplitis excisus TELENGA, 1955

Material: dist. Agdash, VI.1953, 1 ♀ (damaged), leg. Abdinbekova.

Host: unknown.

Distribution: Ukraine, Russia, Azerbaijan (TELENGA 1955, TOBIAS et al. 1986, ABDINBEKOVA 1995).

Microplitis variicolor TOBIAS, 1964

Material: dist. Aghdam, 16.IX.1966, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: Ukraine, Mongolia (TOBIAS 1964), Central Asia, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1995).

Microplitis tuberculifer (WESMAEL, 1837)

Material: dist. Norashen (now Sharur) (now Sharur), 21.IX.1967, 1 ♂, leg. Abdinbekova, dist. Guba, 20.V.1962, 1 ♂, leg. Abdinbekova, dist. Gusar, 7.VII.1960, 1 ♀, leg. Abdinbekova.

Host: *Dendrolimus pini* (L.) (Lasiocampidae), *Eulithis testata* (L.), *Eupithecia exigua* (Hb.), *E. linariata* (DEN. & SCHIFF.), *E. subfuscata* (Hw.), *E. succenturiata* (L.),

Ligdia adustata (DEN. & SCHIFF.) (Geometridae), *Laotloe populi* (L.) (Sphingidae), *Coleophora follicularis* (VAL.) (Coleophoridae), *Eupoecilia ambiguella* (HB.) (Tortricidae), *Ypsolopha nemorella* (L.) (Ypsolophidae), *Apamea sordens* (HFN.), *Autographa gamma* (L.), *A. nigrisigna* (WALK.), *Diachrysia chrysitis* (L.), *Dichonia aprilina* (L.), *Hadena irregularis* (HFN.), *Lacanobia oleracea* (L.), *Lesmone irregularis* (HB.), *Mamestra brassicae* (L.), *Naenia typica* (L.), *Orthosia gothica* (L.), *O. incerta* (HFN.), *O. miniosa* (DEN. & SCHIFF.), *O. munda* (DEN. & SCHIFF.), *O. stabilis* (DEN. & SCHIFF.), *Phlogophora meticulosa* (L.), *Polymixis flavicincta* (DEN. & SCHIFF.), *Spodoptera exigua* (HBN), *S. litura* (F.), *Stilbia anomala* (Hw.), *Xestia xanthographa* (DEN. & SCHIFF.) (Noctuidae), *Trichiosoma betuleti* (KLUG) (Cimbicidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Turkey, Caucasus, Central Asia, China, Vietnam, North Africa, Azerbaijan (ALEKSEEV, BELOKOBYLSKIY et al. 2012, WESMAEL 1837, TOBIAS et al. 1986, ABDINBEKOVA 1995).

Microplitis marshallii KOKUJEV, 1897

Material: Nakhichevan AR, 21.IX.1967, 1 ♀, leg. Abdinbekova, dist. Ordubad, 21.IX.1967, 1 ♂, leg. Abdinbekova.

Host: unknown.

Distribution: Europe, Russia, Caucasus, China, Azerbaijan (GÜÇLÜ & ÖZBEK 2011).

Microplitis mediator (HALIDAY, 1834)

Material: dist. Gusar, 9.VII.1960, 1 ♂, leg. Abdinbekova, dist. Guba, 5.VIII.1961, 1962, 3 ♂♂, leg. Abdinbekova.

Host: *Aporia crataegi* (L.) (Pieridae), *Epirrhoe galiata* (DEN. & SCHIFF.), *Eupithecia subfulvata* (Hw.) (Geometridae), *Plutella xylostella* (L.) (Plutellidae), *Antitype chi* (L.), *Autographa gamma* (L.), *Conistra ligula* (ESP.), *C. vaccinii* (L.), *Dryobotodes carbonius* (F.), *Heliothis virescens* (HFN.), *Jodia croceago* (DEN. & SCHIFF.), *Lacanobia oleracea* (L.), *Lycophotia porphyria* (DEN. & SCHIFF.), *Mamestra brassicae* (L.), *M. illoba* (BUTL.), *Mniotype adusta* (ESP.), *Nythimna straminea* (TR.), *Naenia typica* (L.), *Noctua fimbriata* (SCHR.), *N. janthina* (DEN. & SCHIFF.), *Orthosia cerasi* (F.), *O. cruda* (DEN. & SCHIFF.), *O. miniosa* (DEN. & SCHIFF.), *Pseudaletia unipuncta* (Hw.), *Rileyiana fovea* (TR.), *Schinia scutosa* (DEN. & SCHIFF.), *Shargacucullia verbasci* (L.), *Xestia xanthographa* (DEN. & SCHIFF.), *X.c.-nigrum* (L.) (Noctuidae), *Campoletis chlorideae* (UCH.), *Hemiteles moldavicus* (CONST. & MUST.), *Mesochorus discitergus* (SAY.), *M. olerum* (CURT.), *M. pallipes* (BR.), *M. semirufus* (HOLM.) (Ichneumonidae), *Trichomalopsis oryzae* (KAM.

& GRISS.) (Pteromalidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Caucasus, Japan, Azerbaijan, (ABDINBEKOVA 1975).

Microplitis sofron NIXON, 1970

Material: dist. Guba, 20.VII.1961, 1 ♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 8.VIII.1961, 1 ♂, leg. Abdinbekova, dist. Khachmaz, 18.VIII.1961, 1 ♂, leg. Abdinbekova.

Host: *Arctia caja* (L.) (Arctiidae), *Cosmia trapezina* (L.), *Melanarcha cespitis* F., *Autographa gamma* (L.), *Tholera cespitis* (DEN. & SCHIFF.) (Noctuidae), *Yponomeuta cagnagella* (HB.) (Yponomeutidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Central Asia, Caucasus (ABDINBEKOVA 1975).

Microplitis spectabilis (HALIDAY, 1834)

Material: dist. Zagatala, 22.VII.1960, 1 ♂, leg. Abdinbekova, dist. Khachmaz, 5.VIII.1961, 1963, 2 ♂♂, leg. Abdinbekova, dist. Guba, 4.VII.1961, 1962, 2 ♂♂, 3 ♀♀, leg. Abdinbekova, dist. Goychay, 8.IX.1964, 3 ♀♀, leg. Abdinbekova, dist. Mardakert (now Aghdere), 14.VI.1966, 1 ♂, leg. Abdinbekova, dist. Shamakhy, 10.VI.1966, 1 ♂, leg. Abdinbekova, dist. Dashkesan, 2.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Norashen (now Sharur), 23.V.1967, 1 ♀, leg. Abdinbekova.

Host: *Eulithis testata* (L.), *Eupithecia succenturiata* (L.) (Geometridae), *Nymphalis polychloros* (L.) (Nymphalidae), *Agrotis segetum* (DEN. & SCHIFF.), *A. exclamationis* L., *Apamea unanimes* (HB.), *Charanyca trigrammica* (HFN.), *Eupsilia transversa* (HFN.), *Hadena albimaculata* (BORKH.), *H. capsicola* (DEN. & SCHIFF.), *H. perplexa* (DEN. & SCHIFF.), *Mamestra brassicae* (L.), *Parastichtis ypsilon* (DEN. & SCHIFF.), *Polychrysis moneta* (F.), *Spodoptera exigua* (HB.), *Xylota exsoleta* (L.) (Noctuidae), *Yponomeuta evonymella* (L.) (Yponomeutidae), *Rabdophaga salicis* (SCHR.) (Cecidomyiidae), *Trichiosoma betuleti* (KLUG.) (Cimbicidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe (TELENGA 1955), Russia, Central Asia, Caucasus, Azerbaijan (TOBIAS 1971).

Microplitis spinolae NEES, 1834

Material: dist. Guba, 1.VIII.1962, 7 ♂♂, 3 ♀♀, leg. Abdinbekova, dist. Zagatala, 7.VIII.1959, 1960, 3 ♀♀,

leg. Abdinbekova, dist. Gusar, 10, 22.VII.1964, 4 ♂♂, leg. Abdinbekova, dist. Gakh, 27.VI.1960, 1 ♂, leg. Abdinbekova, dist. Lerik, 6.VII.1965, 2 ♀♀, leg. Abdinbekova, dist. Astara, 14.IV.1965, 1 ♂, leg. Abdinbekova, dist. Goychay, 29.IX.1964, 1 ♀, leg. Abdinbekova, dist. Khachmaz, 6.VII.1962, 1963, 3 ♀♀, leg. Abdinbekova, dist. Mardakert (now Aghdere), 4.VI.1966, 1967, 1 ♂, 3 ♀♀, leg. Abdinbekova, dist. Mirbashir (now Tartar), 12.VI.1966, 2 ♀♀, leg. Abdinbekova, dist. Margushevan (now Khojavend), 6.VIII.1966, 3 ♂♂, leg. Abdinbekova, dist. Kalbajar, 5.VIII.1966, 3 ♀♀, leg. Abdinbekova, dist. Devechi (now Shabran), 1.VII.1962, 1 ♀, leg. Abdinbekova, dist. Aghdam, 6.VII.1966, 1 ♂, leg. Abdinbekova, dist. Shamkhor (now Shamkir), 24.VII.1966, 1 ♂, leg. Abdinbekova, dist. Goranboy, 16.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Khankendi, 22.VIII.1966, 2 ♀♀, leg. Abdinbekova, dist. Ilich (now Babek), 21.IX.1967, 1 ♀, leg. Abdinbekova.

Host: *Autographa gamma* L., *Cornutiplusia circumflexa* (L.), *Abrostola triplasia* (L.), *Acrionicta alni* (L.), *Allophytes oxyacanthae* (L.), *Autographa gamma* (L.), *Calophasia lunula* (HFN.), *Heliothis peltigera* (DEN. & SCHIFF.), *Heliothis virescens* (HFN.), *Lacanobia oleracea* (L.), *Orthosia gothica* (L.), *Syngrapha circumflexa* (L.), *Tholera cespitis* (DEN. & SCHIFF.) (Noctuidae), *Ennomos quercinaria* (HFN.), *Tephrosia arenacearia* (DEN. & SCHIFF.)

(Geometridae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

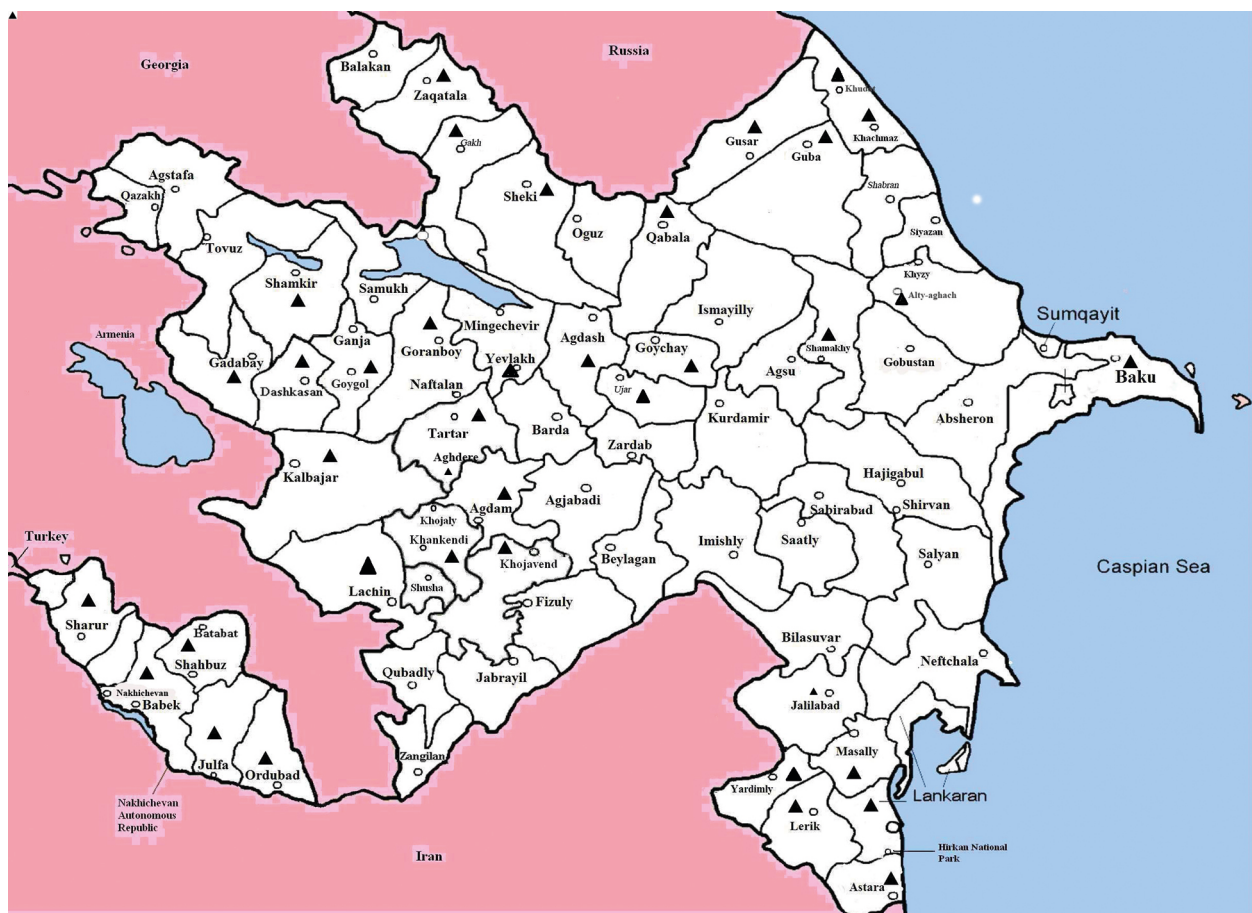
Distribution: Europe (TELENGA 1955), Russia, Central Asia, Caucasus, Azerbaijan (TOBIAS 1971).

Microplitis tuberculatus (BOUCHÉ, 1834)

Material: dist. Khachmaz, 3.VII.1964, 1 ♂, leg. Abdinbekova, dist. Goychay, 8.IX.1964, 1 ♂, 2 ♀♀, leg. Abdinbekova.

Host: *Archips rosana* (L.) (Tortricidae), *Acrionicta rumicis* (L.), *A. auricoma* (DEN. & SCHIFF.), *A. menyanthidis* (ESP.), *A. euphorbiae* (DEN. & SCHIFF.), *A. auricoma* (DEN. & SCHIFF.), *A. psi* (L.), *Eupsilia transversa* (HFN.), *Orthosia miniosa* (DEN. & SCHIFF.) (Noctuidae), *Furcula bifida* (B.), *Cerura vinula* (L.) (Notodontidae), *Euproctis chrysorrhoea* (L.) (Lymantriidae), *Mesochorus cimbicis* (RATZ.) (Ichneumonidae), *Allantus (Allantus) togatus* (P.) (Tenthredinidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: West Europe, Russia, Caucasus (TOBIAS et al. 1986).



Map 1: Records of Braconidae in Azerbaijan, places (open circles) and localities (filled triangles).

Microplitis tadzhicus TELENGA, 1949

Material: dist. Aghdam, 24.VII.1965, 1 ♂, 1 ♀, leg. Abdinbekova, dist. Masally, 8.IX.1965, 1 ♂, leg. Abdinbekova, dist. Kirovabad (now Ganja), 20.VIII.1966, 1 ♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 21.VI.1967, 1 ♂, leg. Abdinbekova.

Host: unknown.

Distribution: Europe, Central Asia, Afghanistan, China, Caucasus (TOBIAS et al. 1986).

Microplitis pseudomurina ABDINBEKOVA, 1969

Material: dist. Gasyim Ismayilov (now Goranboy), 15.VIII.1966, 1 ♂, leg. Abdinbekova.

Host: *Pyrrhia umbra* (HFN.) (Noctuidae) (YU et al. 2012).

Distribution: Kazakhstan, Far East, South Caucasus, Azerbaijan (TOBIAS et al. 1986).

Microplitis deprimator (FABRICIUS, 1798)

Material: dist. Gusar, 8-10.VII.1960, 2 ♂♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 4.V.1966, 3 ♀♀, leg. Abdinbekova, dist. Kirovabad (now Ganja), 3.VIII.1966, 2 ♀♀, leg. Abdinbekova, dist. Khanlar (now Goygol), 3.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Yardimly, 29.VI.1966, 1 ♂, leg. Abdinbekova.

Host: *Cucullia scrophularia* (DEN. & SCHIFF.), *C. verbasci* (L.), *Xylota exoleta* L., *Autographa gamma* L., *Acronicta alni* (L.), *A. psi* (L.), *A. rumicis* (L.), *A. tridens* (DEN. & SCHIFF.), *Euchalcia variabilis* (PILL.), *Eupsilia transversa* (HFN.) (Noctuidae), *Carcharodus flocciferus* (ZE.), *Ochlodes sylvanus* (ESP.) (Hesperiidae), *Smerinthus ocellatus* (L.) (Sphingidae), *Adoxophyes orana* (F.v.R.), *Epinotia tetraquetra* (Hw.) (Tortricidae), *Aphomia sociella* (L.), *Galleria mellonella* (L.) (Pyralidae), *Euproctis similis* (FSL.) (Lymantriidae), *Bombus terrestris* (L.) (Apidae) (YU et al. 2012).

Distribution: Europe, Russia, Ukraine, Turkey, Iran, Korea, Caucasus (ABDINBEKOVA 1995).

Microplitis vidua (RUTHE, 1860)

Material: dist. Zagatala, 13.VII.1960, 1 ♂, leg. Abdinbekova, dist. Nakhchivan, 14.IX.1967, 1 ♂, leg. Abdinbekova, dist. Ordubad, 20.VI.1967, 1 ♀, leg. Abdinbekova, dist. Aghdam, 13.VI.1966, 1 ♂, leg. Abdinbekova.

Host: *Euclidia mi* (CL.), *Cucullia argentea* (HFN.), *C. verbasci* (L.), *Hecatera bicolorata* (HFN.), *Helicoverpa armigera* (HB.), *Orthosia incerta* (HFN.), *Apatele tridens* (DEN. & SCHIFF.), *A. psi* (L.) (Noctuidae), *Smerinthus populi* L. (Sphingidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Ukraine, Turkey, Uzbekistan, South Caucasus, Azerbaijan (ABDINBEKOVA 1995).

Microplitis eremita REINHARD, 1880

Material: dist. Khachmaz, 18.VIII.1961, 1 ♀, leg. Abdinbekova, the same place, 26.VII.1960, 1 ♀, leg. Abdinbekova, dist. Guba, 4.VII.1961, 6.1962, 3 ♀♀, leg. Abdinbekova, dist. Gobustan, 13.V.1967, 1 ♂, leg. Abdinbekova, dist. Goychay, 5.VIII.1964, 1 ♀, leg. Abdinbekova, dist. Zagatala, 20.V.1965, 1 ♂, leg. Abdinbekova, dist. Masally, 10.IX.1965, 1 ♀, leg. Abdinbekova, dist. Kirovabad (now Ganja), 19.VII.1966, 1 ♀, leg. Abdinbekova, dist. Guba, 22.VII.1960, 1 ♀, leg. Abdinbekova, dist. Gasyim-Ismayilov (now Goranboy), 6.VIII.1966, 3 ♀♀, leg. Abdinbekova, dist. Kalbajar, 20.VII.1966, 1 ♀, leg. Abdinbekova, dist. Dashkesan, 2.VIII.1966, 1, leg. Abdinbekova, dist. Mardakert (now Aghdere), 6.VIII.1966, 1967, 4 ♂♂, leg. Abdinbekova, dist. Julfa, 21.V.1967, 1 ♂, dist. Goranboy, 23.VI.1967, 1 ♂, leg. Abdinbekova, dist. Ordubad, 6.IX.1967, 3 ♀♀, leg. Abdinbekova, dist. Nakhchivan, 19.VI. IX.1967, 2 ♂♂, leg. Abdinbekova.

Host: *Calliergis ramosa* (ESP.), *Acronycta hyperici* (DEN. & SCHIFF.), *A. tridens* (DEN. & SCHIFF.), *A. psi* (L.), *Autographa gamma* (L.), *Helicoverpa armigera* (HB.) (Noctuidae), *Opisthograptis luteolata* (L.) (Geometridae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Kazakhstan, Russia, South Caucasus, Azerbaijan (TOBIAS et al. 1986).

Microplitis varipes (RUTHE, 1860)

Material: dist. Nukha (now Sheki), 27.VII.1965, 1 ♀, leg. Abdinbekova.

Host: *Cucullia scoparia* (DORF.), *Hecatera bicolorata* (HFN.), *Omphalophana antirrhinii* (HB.) (Noctuidae), *Chrysolina didymata* (Sc.) (Chrysomelidae), *Loxostege sticticalis* (L.) (Crambidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Mongolia, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Subfamily Microgastrinae

Genus *Microgaster* LATREILLE, 1804*Microgaster campestris* TOBIAS, 1964

Material: dist. Nakhchivan, 14.IX.1967, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: Central Asia, Kazakhstan, Russia, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Microgaster curvicrus THOMSON 1895

Material: dist. Astara, 17.VI.1965, 1 ♀, leg. Abdinbekova, dist. Aghdam, 13.VI.1966, 1 ♀, leg. Abdinbekova, dist. Ilich (now Babek), 23.IX.1967, 1 ♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 10-24.VI.1967, 6 ♂♂, leg. Abdinbekova, dist. Mirbashir (now Tartar), 1 ♀, leg. Abdinbekova, dist. Kirovabad (now Ganja), 4.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Nakhichevan AR, 18.IX.1967, 1 ♀, leg. Abdinbekova, dist. Gasym-Ismaïlov (now Goranboy), 19.VIII.1966, 1 ♂, leg. Abdinbekova, dist. Dashkesan, 29.VI.1967, 1 ♂, leg. Abdinbekova, dist. Lerik 15.V.1966, 1 ♂, leg. Abdinbekova, dist. Yardimly, 6.IX.1965, 1 ♀, leg. Abdinbekova, dist. Masally, 23.VI.1965, 1 ♀, leg. Abdinbekova, dist. Guba, 30.V.1962, 1 ♀, leg. Abdinbekova.

Host: *Agonopterix pallorella* ZELL. 1839 (Depressariidae), *Cnephasia asseclana* (DEN. & SCHIFF.), *Olethreutes arbutella* (L.) (Tortricidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Mongolia, Central Asia, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Microgaster globata (LINNAEUS, 1758)

Material: dist. Shahdag, 26.IX.1935, 1 ♂, leg. Bogachev.

Host: *Acleris comariana* (LIENIG & Z.), *Ancylis unculana* (Hw.), *Archips crataegana* (Hb.), *Archips rosana* (L.), *Archips xylosteana* (L.), *Hedya nubiferana* (Hw.), *Hedya pruniana* (Hb.), *Metendothenia atropunctana* (ZETT.), *Ptycholoma lecheana* (L.), *Spilonota ocellana* (DEN. & SCHIFF.), *Tortrix viridana* (L.) (Tortricidae), *Anacampsis timidella* (W.), *Pseudotelphusa paripunctella* (THNB.) (Gelechiidae), *Acrobasis tumidana* (DEN. & SCHIFF.) (Pyralidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Ukraine, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Microgaster tibialis NEES 1834

Material: dist. Khachmaz, 25.V.1962, 1 ♂, leg. Abdinbekova.

Host: *Prasocuris junci* (Br.) (Chrysomelidea), *Aglais urticae* (L.) (Nymphalidae), *Eupithecia denotata* (Hb.), *E. linariata* (DEN. & SCHIFF.), *Perizoma flavofasciata* (THNB.) (Geometridae), *Smerinthus ocellatus* (L.) (Sphingidae), *Vanessa indica* (HERBST.) (Nymphalidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Russia, Turkey, Central Asia, Ukraine, China, South Caucasus (ABDINBEKOVA 1975).

Microgaster deprimator (FABRICIUS 1798)

Material: dist. Gusar, 8-10.VII.1960, 2 ♂♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 4.V.1966, 3 ♀♀, leg. Abdinbekova, dist. Kirovabad (now Ganja), 3.VIII.1966, 2 ♂♂, leg. Abdinbekova, dist. Khanlar (now Goygol), 3.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Yardimly, 29.VI.1966, 1 ♀, leg. Abdinbekova.

Host: *Cucullia scrophulariae* (DEN. & SCHIFF.), *Autographa gamma* L. (Noctuidae) (TOBIAS et al. 1986).

Distribution: Europe, Russia, Kazakhstan, Central Asia, Iran, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Microgaster subcompleta NEES, 1834

Material: dist. Zagatala, 4.VIII.1959, 1 ♀, leg. Abdinbekova, dist. Aghdam, 23.VI.1966, 1 ♀, leg. Abdinbekova, dist. Nakhichevan AR, 19.IX.1967, 1 ♀, leg. Abdinbekova, dist. Guba, 30.V.1962, 1 ♀, leg. Abdinbekova, dist. Goychay, 4-6.X.1964, 2 ♀♀, Abdinbekova, dist. Gusar 15.VII.1962, 1 ♀, leg. Abdinbekova.

Host: *Aglais urticae* (L.), *Inachis io* (L.), *Polygonia c-album* (L.), *Vanessa atalanta* (L.), *V. cardui* (L.) (Nymphalidae), *Ancylis unculana* (Hw.), *Anania hortulata* (L.), *Loxostege sticticalis* (L.), *Pleuroptya ruralis* (S.), *Sitochroa verticalis* (L.) (Crambidae), *Hedya nubiferana* (Hw.), *Phalonidia manniana* (F.v.R.), *Tortrix viridana* (L.) (Tortricidae), *Acronicta rumicis* (L.), *A. tridens* (DEN. & SCHIFF.), *Euchalcia variabilis* (P.), *Hypena proboscidalis* (L.), *Polychrysia moneta* (F.), *Cucullia scrophulariae* (DEN. & SCHIFF.), *Cucullia verbasci* L. (Noctuidae), *Blapsidotes vicinus* (GR.), *Encrateola laevigata* (RATZ.), *Gelis agilis* (F.) (Ichneumonidae), *Lysibia nanus* (GR.), *Mesochorus atriventris* CR., *M. giberius* (THNB.) (Ichneumonidae), *Sympiesis sericeicornis* (NEES), (Eulophidae), *Pontania triandrae* B. (Tenthredinidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Belarus, Ukraine, Russia, Turkey, China, Korea, U.S.A., South Caucasus (ABDINBEKOVA 1975).

Genus *Choeras* MASON, 1981

Choeras suffolciensis (MORLEY 1902)

Material: dist. Guba, 17.VII.1962, 1 (damaged), leg. Abdinbekova, dist. Sheki, 8.VII.1965, 1 ♀ 1 (damaged), leg. Abdinbekova, dist. Lerik, 20.VII.1965, 1 (damaged), leg. Abdinbekova, dist. Ordubad, 19.IX.1967, 1 (damaged) leg. Abdinbekova.

Host: *Avaria hyerana* (M.), *Cacoecimorpha pronubana* (HB.) (Tortricidae), *Ethmia terminella* FL., *Nephopterix obductella* (F.v.R.) (Ethmiidae), *Nothris verbascella* (DEN. & SCHIFF.) (Gelechiidae), *Palpita unionalis* (HB.), *Pyrausta aurata* S. (Crambidae), *Tebenna bjerkandrella* (THNB.) (Choreutidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Central Asia, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Genus *Diolcogaster* ASHMEAD, 1900

Diolcogaster abdominalis (NEES, 1834)

Material: dist. Gusar, 14.VII.1961, 1 ♀, leg. Abdinbekova.

Host: *Coenonympha oedippus* F., *Coenonympha tullia* (M.), *Vanessa atalanta* (L.) (Nymphalidae) (YU et al. 2012).

Distribution: Europe, Russia, Mongolia, South Caucasus, Azerbaijan (TELENGA 1955).

Diolcogaster mayae (SHESTAKOV, 1932)

Material: dist. Goranboy, 16.VIII.1966, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: Europe, Russia, Central Asia, Iran, Kazakhstan, Afghanistan, Mongolia, South Caucasus, Azerbaijan (TELENGA 1955, TOBIAS et al. 1986).

Diolcogaster orontes (NIXON 1965)

Material: dist. Guba, 14.VI.1961, 1 ♀, leg. Abdinbekova, dist. Lankaran, 14.VI.1965, 1 ♀, leg. Abdinbekova.

Host: *Plutella xylostella* (L.), *P. xylostella* (L.) (Plutellidae), *Alcis jubata* (THNB.) (Geometridae) (YU et al. 2012).

Distribution: Europe, Lithuania, Belarus, Moldova, Russia, Afghanistan, Kazakhstan, South Caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Genus *Cotesia* CAMERON, 1891

Cotesia vestalis (HALIDAY, 1834)

Material: dist. Guba, 6.X.1961, 2 ♀ ♀, leg. Abdinbekova, dist. Khachmaz, 15.VIII.1964, 1 ♂, leg. Abdinbekova.

Host: *Aglais urticae* (L.), *Maniola jurtina* (L.) (Nymphalidae), *Anthocharis cardamines* (L.), *Pieris brassicae* (L.), *Pieris rapae* (L.) (Pieridae), *Malacosoma castrensis* (L.), *Malacosoma neustria* (L.) (Lasiocampidae), *Agdistis bennetii* (CURT.) (Pterophoridae), *Cadra cautella* (WALK.), *Corcyra cephalonica* (STT.) (Pyralidae), *Crocidolomia pavonana* (F.), *Hellula undalis* (F.), *Loxostege sticticalis* (L.), *Sitochroa verticalis* (L.) (Crambidae), *Cnephasia sedana* (CONST.), *Sparganothis pilleriana* (DEN. & SCHIFF.) (Tortricidae), *Plutella xylostella* (L.), *Plutella maculipennis* CURT. (Plutellidae), *Proxenus hospes* (FR.), *Autographa gamma* (L.), *A. nigrisigna* (WALK.), *Chrysodeixis chalcites* (ESP.), *Cucullia chamomillae* (DEN. & SCHIFF.), *Euproctis chrysorrhoea* (L.) (Lymantriidae), *Heliothis armigera* (HB.), *Lacanobia oleracea* (L.), *Simyra dentinosa* FR., *Cucullia verbasci* (L.), *Spodoptera exigua* (HB.), *S. litura* (F.), *Trichoplusia ni* (HB.) (Noctuidae), *Hyphantria cunea* (DR.), *Ocnogyna baetica* (RAMB.), *Spilosoma urticae* ESP. (Arctiidae), *Thaumetopoea herculeana* RAMB., *T. processionea* (L.) (Notodontidae), *Acrolyta nens* (HART.), *Agasthenes varitarsus* (GR.), *Clypeoplex cerophagus* (GR.), *Diadegma semiclausum* (HEL.), *Diaglyptidea conformis* (GM.), *Gelis agilis* (F.), *Gelis areator* (PANZ.), *Mesochorus anomalus* HOLM., *M. discitergus* (SAY), *M. orbitalis* HOLM. (Ichneumonidae), *Dibrachys microgastri* (B.), *Mokrzeckia orientalis* S.R., *Trichomalopsis apanteloctena* (CRF.), *T. shirakii* CRF. (Pteromalidae), *Elasmus nudus* (N.), *Nesolynx thymus* (GIR.), *Oomyzus sokolowskii* (KURD.) (Eulophidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Latvia, Russia, Ukraine, Moldova, Turkey, Iran, Kazakhstan, Central Asia, Afghanistan, Pakistan, India, Bangladesh, Sri Lanka, Benin, China, Thailand, Singapore, Vietnam, Malaysia, Korea, Japan, Philippines, Papua New Guinea, Morocco, Kenya, Libya, South Africa, New Zealand, U.S.A., Brazil, Argentina, South Caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia ruficrus (HALIDAY, 1834)

Material: dist. Norashen (now Sharur), 7.VIII.1967, 1 ♀, leg. Abdinbekova.

Host: *Anticollis sparsata* (Tr.) (Geometridae), *Colias crocea* (FOURC.) (Pieridae), *Deudorix antalus* HOPE. (Lycaenidae), *Gonepteryx rhamni* (L.), *Pieris brassicae* (L.), *Pieris rapae* (L.) (Pieridae), *Malacosoma neustria* (L.) (Lasiocampidae), *Melanitis leda* (L.), *Melitaea cinxia* (L.) (Nymphalidae), *Parnara guttatus* (Br. & Gr.), *Pelopidas mathias* (F.) (Hesperiidae), *Chilo auricilius* DDN., *C. partellus* (SWIN.), *C. suppressalis* WALK., *C. zacconius* BLES., *Cnaphalocrocis medinalis* (GN.), *Loxostege sticticalis* (L.), *Ostrinia nubilalis* (HB.) (Crambidae), *Hypsipyla robusta* (MR.) (Pyralidae), *Pectinophora gossypiella* (SAUND.) (Gelechiidae), *Phthorimaea operculella* (ZEL.) (Gelechiidae), *Plutella xylostella* (L.) (Plutellidae), *Sparganothis pilleriana* (DEN. & SCHIFF.) (Tortricidae), *Acronicta rumicis* (L.), *Agrapha agnata* (St.), *Agrotis ipsilon* (HFN.), *A. segetum* (DEN. & SCHIFF.), *Mythimna impura* (HB.), *M. pallens* (L.), *Anomis flava* (F.), *Autographa gamma* (L.), *Protarchanara brevilinea* (FENN), *Chrysodeixis argentifera* (GN.), *C. chalcites* (ESP.), *C. eriosoma* (DBL.), *Coenophila subrosea* (STEPH.), *Condica capensis* (GN.), *Cucullia chamomillae* (DEN. & SCHIFF.), *Diloba caeruleocephala* (L.), *Arctia villica* (L.), *Hyphantria cunea* (DR.), *Ocnogyna loewii* ZEL., *Spilosoma lubricipedium* (L.), *Spilarctia obliqua* (WALK.) (Arctiidae), *Heliothis armigera* (HB.), *Lacanobia oleracea* (L.), *Leucania loreyi* (D.), *L. venalba* (M.), *L. salicis* (L.), *Mamestra brassicae* (L.), *Naranga aeneascens* (M.), *Naranga diffusa* (WALK.), *Ochropleura praecox* (L.), *Orthosia gracilis* (DEN. & SCHIFF.), *Pseudaletia convecta* (WALK.), *P. separata* (WALK.), *Mythimna unipuncta* (Hw.), *Chrysodeixis includens* (WALK.), *Sesamia calamistis* HMPS., *S. cretica* LED., *S. inferens* (WALK.), *S. nonagrioides* LEF., *Cucullia verbasci* (L.), *Spodoptera exempta* (WALK.), *S. exigua* (HB.), *S. frugiperda* (SMITH), *S. littoralis* (BOISD.), *S. litura* (F.), *S. mauritia* (BOISD.), *Trichoplusia ni* (HB.), *T. orichalcea* (F.) (Noctuidae), *Aclastus etorofuensis* (U.), *Diatora prodeniae* ASHM, *Mesochorus anomalus* HOLM., *Mesochorus discitergus* (SAY), *Mesochorus chinensis* (U.), *Mesochorus srinaraini* (G.) (Ichneumonidae), *Meteorus rubens* (NEES) (Braconidae), *Eurytoma syleptae* FERRI., *Pediobius afronigripes* KERRI., *Pediobius foveolatus* (CRAW.) (Eulophidae), *Pteromalus crassinervis* (THOMS.) *Trichomalopsis apanteloctena* (CRAW.) (Pteromalidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Lithuania, Russia, Ukraine, Moldova, Belarus, Kazakhstan, Turkey, Cyprus, Iraq, Iran, Israel, Central Asia, Mongolia, China, Algeria, Libya, Egypt, Senegal, Nigeria, Sudan, Ethiopia, Uganda, Kenya, Tanzania, Zimbabwe, Madagascar, South Africa, Yemen, Pakistan, India, Sri Lanka, Nepal, Bangladesh, Thailand, Vietnam, Korea, Japan, Philippines, Malaysia,

Indonesia, Australia, New Zealand, U.S.A., South Caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia melitaeorum (WILKINSON, 1937)

Material: dist. Gusar, 15.VI.1962, 1 ♀, leg. Abdinbekova, dist. Lerik, 15.VII.1965, 3 ♀♀, 3 ♂♂ leg. Abdinbekova, dist. Khachmaz, 21.VI.1966, 1 ♂, leg. Abdinbekova.

Host: *Euphydryas davidi* (OBTH.), *E. desfontainii* (GDRT.), *E. maturna* (L.), *E. aurinia* (ROTT.), *Melitaea cinxia* (L.), *M. deione* GEY., *M. diamina* LANG., *M. didyma* (ESP.), *M. leucippe* SCH., *M. parthenoides* KEF., *M. trivia* (DEN. & SCHIFF.), *M. athalia* (ROTT.), *Nymphalis antiopa* (L.) (Nymphalidae), *Lymantria dispar* (L.) (Lymantriidae), *Acrolyta nens* (HART.), *Gelis acarorum* (L.), *G. gilii* (F.), *Hyposoter horticola* (GRAV.) (Ichneumonidae), *Cotesia glomerata* (L.) (Braconidae), *Brachymeria secundaria* (RUSC.), *Neochrysocharis albiscapus* ERDOS (Eulophidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Estonia, Moldova, Russia, Ukraine, Kazakhstan, Uzbekistan, Turkey, Korea, China, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia tibialis (CURTIS, 1830)

Material: dist. Mardakert (now Aghdere), 18, 28.VII.1966, 2 ♀♀, leg. Abdinbekova, dist. Shamkhor (now Shamkir), 19.VIII.1966, 1 ♂, leg. Abdinbekova, dist. Astara, 4.VI.1966, 1 ♂, leg. Abdinbekova, dist. Guba, 6.VII.1961, 1 ♂, 1 ♀, leg. Abdinbekova, dist. Goychay, 2.X.1964, 2 ♂♂, leg. Abdinbekova.

Host: *Bombyx mori* (L.) (Bombycidae), *Dendrolimus pini* (L.), *Eriogaster lanestris* (L.), *Eupithecia abbreviata* STEPH., *E. fraxinata* CREW., *E. tripunctaria* H.-S. (Lasiocampidae), *Phigalia pilosaria* (DEN. & SCHIFF.) (Geometridae), *Aglais urticae* (L.), *Eurodryas saurinia* (ROTT.), *Inachis io* (L.), *Maniola jurtina* (L.), *Pyronia tithonus* (L.), *Vanessa indica* (HBST.), *Pararge aegeria* (L.) (Nymphalidae), *Leptidea sinapis* (L.), *Aporia crataegi* (L.), *Pieris brassicae* (L.) (Pieridae), *Plebejus loewii* ZEL. (Lycaenidae), *Ancylis laetana* FABR., *Tortrix viridana* (L.) (Tortricidae), *Dyspessa ulula* BORK. (Cossidae), *Loxostege sticticalis* (L.), *Ostrinia nubilalis* (HB.), *Pyrausta cingulata* (L.), *P. purpuralis* (L.), *P. sanguinalis* (L.) (Crambidae), *Pexicopia malvella* Hb. (Gelechiidae), *Plutella xylostella* (L.) (Plutellidae), *Yponomeuta malinellus* ZEL. (Yponomeutidae), *Zygaena filipendulae* (L.) (Zygaenidae), *Acronicta aceris* (L.), *A. euphorbiae* (DEN. & SCHIFF.), *A. leporina* (L.), *A. rumicis* (L.), *Agrotis clavis* (HFN.), *A. segetum* (DEN. & SCHIFF.), *Anarta myrtilli* (L.), *Arctia tigrina* VILL., *Autographa gamma* (L.), *Cerastis rubricosa* (DEN. & SCHIFF.), *Chersotis rectangula* (DEN.

& SCHIFF.), *Cucullia argentea* (HFN.), *C. artemisiae* (HFN.), *C. asteris* (DEN. & SCHIFF.), *C. lucifuga* (DEN. & SCHIFF.), *Diachrysia chrysitis* (L.), *Anarta trifolii* (HFN.), *Eupsilia transversa* (HFN.), *Eurois occulta* (L.), *Euxoa temera* (HB.), *E. tritici* (L.), *Graphiphora augur* (FABR.), *Lacanobia oleracea* (L.), *L. pisi* (L.), *Mamestra brassicae* (L.), *Noctua pronuba* (L.), *Orthosia gothica* (L.), *O. gracilis* (DEN. & SCHIFF.), *O. incerta* (HFN., 1766), *Xestia c-nigrum* (L.), *X. exoleta* (LEECH), *X. rhomboidea* (ESP.), *X. triangulum* (HFN.), *Xylena exsoleta* (L.), *X. vetusta* (HB.), *Catocala nupta* (L.) (Noctuidae), *Euclidia mi* (CL.), *Calliteara pudibunda* (L.), *Diaphora mendica* (CL.), *Euproctis chrysorrhoea* (L.), *Ocnogyna boetica* (RAMB.), *O. loewii* ZEL., *Spilosoma lubricipedium* (L.) (Erebidae), *Clostera anastomosis* (L.), *Phalera bucephala* (L.) (Notodontidae), *Lymantria dispar* (L.) (Lymantriidae), *Chaetostomella cylindrica* (R.-D.) (Tephritidae), *Pegomya conformis* (FAL.) (Anthomyiidae), *Acrolyta nens* (HART.), *A. rufocincta* (GRAV.), *Bathythrix aerea* (GRAV.), *Gelis acarorum* (L.), *G. agilis* (FAB.), *G. anthracinus* (FORS.), *G. cinctus* (L.), *G. nigrifolius* (ZETT.), *G. proximus* (FORS.), *G. rufogaster* THUNB., *G. spurius* (FORS.), *Lysibia nanus* (GRAV.), *Mesochorus acuminatus* TH., *M. discitergus* (SAY), *M. fuscicornis* BRIS., *M. olerum* CURT., *M. velox* HOLM. (Ichneumonidae), *Catolaccus ater* (RATZ.), *Dibrachys cavus* (WALK.), *Dibrachys microgastri* (BOUCHE), *Psychophagus omnivorus* (WALK.), *Pteromalus microgastri* (KURD.), *Pteromalus semotus* (WALK.), *Neochrysocharis albiscapus* ERD. (Eulophidae) (TOBIAS et al. 1986, ABDINBEKOVA, 1995, YU et al. 2012).

Distribution: Europe, Estonia, Moldova, Ukraine, Russia, Canary Islands, Turkey, Israel, Iran, Afghanistan, China, Kazakhstan, Uzbekistan, Kyrgyzstan, Turkmenistan, Mongolia, Japan, South Caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia telengai (TOBIAS, 1972)

Material: dist. Gusar, 1.XI.1960, 10 ♀♀, 16 ♂♂, leg. Abdinbekova, dist. Guba, 7.VII.1962, 4 ♂♂, 2 ♀♀ leg. Abdinbekova, dist. Lankaran, 30.VI.1966, 1 ♂, leg. Abdinbekova, dist. Devechi (now Shabran), 3.VII.1962, 3 ♀♀, leg. Abdinbekova.

Host: *Pediasia aridella* (THUNB.) (Crambidae), *Agrotis segetum* (DEN. & SCHIFF.), *Proxenus hospes* (FREY.), *Autographa gamma* (L.), *Catocala elocata* (ESP.), *Euxoa temera* (HB.), *Heliothis armigera* (HB.), *Heliothis virescens* (HFN.), *Noctua pronuba* (L.), *Cornutiplusia circumflexa* (L.), *Xestia c-nigrum* (L.) (Noctuidae) (TOBIAS et al. 1986, ABDINBEKOVA, 1995, YU et al., 2012).

Distribution: Albania, Moldova, Russia, Turkey, Algeria, Morocco, Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan,

Afghanistan, South Caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1969).

Cotesia gastropachae (BOUCHÉ, 1834)

Material: Baku, Botanical garden, 10.X.1960, 1 ♀, leg. Abdinbekova.

Host: *Aporia crataegi* (L.), *Pieris brassicae* (L.) (Pieridae), *Abraxas grossulariata* (L.), *Geometra papilionaria* (L.) (Geometridae), *Eriogaster lanestris* (L.), *Gastropacha quercifolia* (L.), *Mac rothylacia rubi* (L.), *Malacosoma neustria* (L.), *Dendrolimus pini* (L.) (Lasiocampidae), *Vanessa atalanta* (L.), *Vanessa cardui* (L.), *Aglais urticae* (L.) (Nymphalidae), *Loxostege sticticalis* (L.) (Crambidae), *Lymantria dispar* (L.) (Lymantriidae), *Acronicta rumicis* (L.), *Protoschinia scutosa* (DEN. & SCHIFF.) (Noctuidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Lithuania, Moldova, Kazakhstan, Uzbekistan, Russia, Turkey, Israel, China, Japan, Mongolia, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia zygaenarum (MARSHALL, 1885)

Material: dist. Masally, 10.VI.1965, 1 ♀, leg. Abdinbekova, dist. Shamakhi, 20.VI.1965, 1 ♀, leg. Abdinbekova.

Host: *Colias hyale* (L.) (Pieridae), *Euphydryas aurinia* (ROTT.) (Nymphalidae), *Phigalia pilosaria* (DEN. & SCHIFF.) (Geometridae), *Polyommatus icarus* (ROTT.) (Lycaenidae), *Zygaena (Mesembrynus) brizae* (ESP.), *Z. ephialtes* (L.), *Z. filipendulae* (L.), *Z. (Mesembrynus) laeta* (HB.), *Z. lonicerae* (SCHEV.), *Z. trifolii* (ESP.), *Z. viciae* (DEN. & SCHIFF.), *Diloba caeruleocephala* (L.) (Noctuidae), *Acrolyta nens* (HART.), *A. rufocincta* (GR.), *Gelis agilis* (FABR.), *G. anthracinus* (FORST.), *G. meigenii* (FORST.), *G. monozonius* (GR.), *Lysibia nana* (GR.), *Mesochorus olerum* CURT. (Ichneumonidae), *Dibrachys microgastri* (BOUCHE), *Pteromalus semotus* (WALK.) (Pteromalidae), *Andricus kollari* (HART.) (Cynipidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Moldova, Russia, Macedonia, Turkey, Iran, Mongolia, China, Korea, Japan, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia spuria (WESMAEL, 1837)

Material: dist. Masally, 31.V.1965, 1 ♀, leg. Abdinbekova.

Host: *Aglais urticae* (L.), *Aphantopus hyperantus* (L.) (Nymphalidae), *Aporia crataegi* (L.), *Colias hyale* (L.) (Pieridae), *Angerona prunaria* (L.), *Biston betularia* (L.), *B. strataria* (HFN.), *Campaea margaritaria* (L.), *Colotois pennaria* (L.), *Cyclophora pendularia* (CL.), *C. punctaria* (L.), *Dysstroma truncata* (HFN.), *Ennomos alniaria* (L.), *En. erosaria* (DEN. & SCHIFF.), *En. quercinaria* (HFN.), *Epirrhoe galiata* (DEN. & SCHIFF.), *E. intricata* (ZETT.), *E. pimpinellata* (HUBN.), *E. pusillata* (DEN. & SCHIFF.), *Hydriomena impluviata* (DEN. & SCHIFF.), *Hypomecis punctinalis* (SCOP.), *H. roboraria* (DEN. & SCHIFF.), *Jodis lactearia* (L.), *Lycia hirtaria* (CL.), *Macaria wauaria* (L.), *Odontopera bidentata* (CL.), *Operophtera brumata* (L.), *Perizoma alchemillata* (L.), *Phigalia pilosaria* (DEN. & SCHIFF.), *Phigalia sinuosaria* LEECH, *Pseudoterpna pruinata* (HFN.), *Selenia dentaria* (FABR.), *S. lunularia* (HUBN.), *S. tetralunaria* (HFN.), *Thera juniperata* (L.) (Geometridae), *Carcharodus alceae* (ESP.) (Hesperiidae), *Melitaea phoebe* (DEN. & SCHIFF.) (Nymphalidae), *Dendrolimus sibiricus* (TCHET.), *Lasiocampa trifolii* (DEN. & SCHIFF.), *Malacosoma neustria* (L.), *M. castrense* (L.), *Macrothylacia rubi* (L.), *Poecilocampa populi* (L.), *Trichiura crataegi* (L.) (Lasiocampidae), *Euphydryas maturna* (L.), *Eurodryas aurinia* (ROTT.), *Issoria lathonia* (L.), *Polygonia c-album* (L.), *Vanessa atalanta* (L.), *V. cardui* (L.) (Nymphalidae), *Lycaena tityrus* (PODA), *Lysandra coridon* (PODA), *Polyommatus dorylas* (DEN. & SCHIFF.) (Lycaenidae), *Pieris brassicae* (L.), *P. rapae* (L.) (Pieridae), *Tethea or* (DEN. & SCHIFF.) (Drepanidae), *Anacamptis populella* (CL.) (Gelechiidae), *Cnaemidophorus rhododactylus* (DEN. & SCHIFF.) (Pterophoridae), *Etiella zinckenella* (TR.) (Pyralidae), *Evergestis forficalis* (L.) (Crambidae), *Hedya pruniana* HB., *Pandemis cerasana* (HB.) (Tortricidae), *Triodia sylvina* (L.) (Hepialidae), *Zygaena ephialtes* (L.), *Z. filipendulae* (L.) (Zygaenidae), *Acronicta auricoma* (DEN. & SCHIFF.), *Agrotis segetum* (DEN. & SCHIFF.), *Allophyes oxyacanthae* (L.), *Autographa gamma* (L.), *Brachionycha sphinx* (HFN.), *Caradrina morpheus* (HFN.), *Catocala promissa* (DEN. & SCHIFF.), *C. sponsa* (L.), *Diloba caeruleocephala* (L.), *Eupsilia transversa* (HFN.), *Hadena filigrana* (E.), *Heliothis peltigera* (DEN. & SCHIFF.), *Ipimorpha subtusa* (DEN. & SCHIFF.), *Lacanobia oleracea* (L.), *L. suasa* (DEN. & SCHIFF.), *Parexarnis fugax* (TR.), *Simyra dentinosa* (FR.), *Spodoptera exigua* (HB.) (Noctuidae), *Arctia caja* (L.), *Diacrisia sannio* (L.), *D. brunnea* (DEN. & SCHIFF.) (Arctiidae), *Cerura vinula* (L.), *Drymonia dodonaea* (DEN. & SCHIFF.), *D. ruficornis* (HFN.), *Ptilodon capucina* (L.) (Notodontidae), *Lymantria dispar* (L.) (Lymantriidae), *Acrolyta marginata* (BR.), *A. pseudonens* SCHW. & SH., *Bathythrix aerea* (GRAV.), *Diaglyptidea conformis* (GMEL.), *Gelis agilis* (FABR.), *G. discedens* (FORST.), *G. intermedius* (FORST.), *Lysibia nana* (GRAV.), *Mesochorus angustatus* THOM., *M. discitergus* (SAY), *M. pictilis* HOLM. (Ichneumonidae), *Baryscapus galactopus* (RATZ.), *Minotetrastichus frontalis* (NEES), *Tetrastichus Sinope* (WALK.) (Eulophidae), *Catolaccus ater* (RATZ.), *Dibrachys microgastri* (BOUCHE),

Psychophagus omnivorus (WALK.) (Pteromalidae), *Eurytoma strigifrons* THOM. (Eurytomidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Latvia, Lithuania, Moldova, Russia, Ukraine, Turkey, Iran, Kazakhstan, Uzbekistan, Tajikistan, Afghanistan, China, Korea, Japan, South Caucasus, Azerbaijan (YU et al., 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia melanoscela (RATZBURG, 1844)

Material: dist. Shusha, 27.IV.1966, 1 ♀, leg. Abdinbekova, dist. Ordubad, 13-15.IX.1967, 2 ♀♀, leg. Abdinbekova, dist. Guba, 30.VII.1961, 1 ♂, leg. Abdinbekova, dist. Khachmaz, 11.IX.1962, 1 ♂, leg. Abdinbekova.

Host: *Phyllobaenus verticalis* SAY (Cleridae), *Abraxas grossulariata* (L.), *Cyclophora linearia* (HB.), *Cyclophora punctaria* (L.), *Erannis defoliaria* (CL.), *Eulithis testata* (L.), *Macaria aemulataria* WALK., *Phigalia titea* (CR.) (Geometridae), *Hemileuca maia* (DRURY) (Saturniidae), *Malacosoma neustria* (L.) (Lasiocampidae), *Anacamptis populella* (CL.) (Gelechiidae), *Lathronympha strigana* (FAB.), *Tortrix viridana* (L.) (Tortricidae), *Ostrinia nubilalis* (HB.) (Crambidae), *Acronicta psi* (L.), *Noctua fimbriata* (SCHR.), *Orthosia miniosa* (DEN. & SCHIFF.), *O. stabilis* (DEN. & SCHIFF.) (Noctuidae), *Euproctis chrysorrhoea* (L.), *Ivela auripes* (BTL.), *Leucoma salicis* (L.), *Lymantria dispar* (L.), *L. (mathura)* MOORE, *L. monacha* (L.), *L. (obfuscata)* WALK., *Orgyia antiqua* (L.), *O. leucostigma* (SMITH) (Lymantriidae), *Nycteola asiatica* (KRUL.), *Nycteola frigidana* (WALK.) (Nolidae), *Compsilura concinnata* (MG.) (Tachinidae), *Acrolyta nigricapitata* (C.-D.), *A. rufocincta* (GRAV.), *Encrateola laevigata* (RATZ.), *Gelis agilis* (FABR.), *G. areator* (PANZ.), *G. cayennator* (THUNB.), *G. cinctus* (L.), *G. inutilis* CUSH., *G. nocuus* CUSH., *G. tenellus* (SAY), *G. urbanus* (BR.), *Itoplectis conquisitor* (SAY), *Lymeon orbus* (SAY), *Lysibia mandibularis* (PR.), *L. (nana)* (GRAV.), *Mesochorus discitergus* (SAY), *M. temporalis* THOMS., *M. uniformis* CR. (Ichneumonidae), *Anastatus bifasciatus* (GEOFFR.), *A. japonicus* ASHM., *A. pearsalli* ASHM., *Eupelmus annulatus* NEES (Eupelmidae), *Baryscapus coeruleus* (ASHM.), *Dimmockia incongrua* (ASHM.), *D. pallipes* MUES., *Elasmus atratus* HOW., *E. nudus* (NEES), *Eupelmus urozonus* DALM., *E. vesicularis* (RETZ.), *Horismenus microgaster* (ASHM.), *Pediobius cassidae* ERDOS, *P. crassicornis* (THOMS.), *Pediobius pyrgo* (WALK.), *Sympiesis sericeicornis* (NEES) (Eulophidae), *Catolaccus ater* (RATZ.), *Dibrachys affinis* MASI, *D. microgastri* (BOUCHE), *Hypopteromalus inimicus* MUES., *H. tabacum* (FITCH) (Pteromalidae), *Cirrospilus cinctithorax* (GIR.), *C. coptodiscae* (GIR.), *C. marilandi* GIR., *Conura debilis* (SAY), *C. side* (WALK.), *C. torvina* (CRES.), *Haltichella xanticles* (WALK.) (Chalcididae), *Eurytoma appendigaster* (SWED.), *E. goidanichi* BCK., *E. verticillata* (F.) (Eurytomidae),

Monodontomerus aereus WALK. (Torymidae), *Ooencyrtus kuvanae* (HOW.) (Encyrtidae), *Perilampus hyalinus* SAY, *P. neglectus* BOUCE (Perilampidae), *Pteromalus chrysos* WALK., *P. microgastris* (KURD.), *P. phycidis* (ASHM.), *Trichomalopsis hemiptera* (WALK.), *T. peregrina* (GR.), *Tritneptis hemerocampae* GIR., *T. scutellata* (MUES.) (Pteromalidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Latvia, Lithuania, Moldova, Russia, Belarus, Ukraine, Turkey, Kazakhstan, Tajikistan, Iran, India, Mongolia, China, Korea, Japan, Canada, U.S.A. (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia rufiventris (BINGHAM, 1906)

Material: dist. Masally, 14.IX.1965, 1 ♀, leg. Abdinbekova, dist. Khachmaz, 25.IV.1962, 1 ♂, leg. Abdinbekova.

Host: *Apocheima cinerarius* (ERSCH.) (Geometridae) (YU et al., 2012).

Distribution: Turkmenistan, Azerbaijan (ABDINBEKOVA 1969.)

Cotesia glomerata (LINNAEUS, 1758)

Material: dist. Khudat, 23, 25.VII.1961, 2 ♀ ♀, leg. Abdinbekova, dist. Gusar, 14.VII.1960, 1 ♂, leg. Abdinbekova, dist. Guba, 5.VII.1963, 20 ♀ ♀, 12 ♂ ♂, leg. Abdinbekova, dist. Lankaran, 27-30.VI.1966, 3 ♀ ♀ leg. Abdinbekova, dist. Khachmaz, 23.VII.1960, 1 ♂, leg. Abdinbekova, dist. Masally, 10.IX.1960, 1 ♂, leg. Abdinbekova, dist. Shamakhi, 26.V.1966, 8 ♀ ♀, leg. Abdinbekova.

Host: *Anthrenus museorum* (L.), *Trogoderma glabrum* (HERB.) (Dermestidae), *Abraxas grossulariata* (L.), *Phigalia pilosaria* (DEN. & SCHIFF.) (Geometridae), *Aglais urticae* (L.), *Limenitis camilla* (L.), *Euploea andamanensis* ATK., *Nymphalis antiopa* (L.), *Vanessa atalanta* (L.), *V. cardui* (L.) (Nymphalidae), *Antheraea assamensis* HELF. (Saturniidae), *Aporia crataegi* (L.), *Ascia monuste* (L.), *A. orseis* G., *Catopsilia pomona* (F.), *Colias lesbia* (F.), *Euchloe grancanariensis* (AC.), *Pieris brassicae* (L.), *P. canidia* (SPAR.), *P. cheiranthi* (HB.), *P. crucivora* (BOISD.), *P. mannii* M., *P. melete* M., *P. napi* (L.), *P. rapae* (L.), *Pontia daplidice* (L.), *P. protodice* (BOISD. & LEC.), *Tatochila auto-dice* (HB.) (Pieridae), *Bombyx mori* (L.) (Bombycidae), *Callophrys rubi* (L.) (Lycaenidae), *Dendrolimus pini* (L.), *Malacosoma neustria* (L.) (Lasiocampidae), *Hemaris fuciformis* (L.), *Hyles euphorbiae* (L.), *Leptidea sinapis* (L.), *Macroglossum stellatarum* (L.) (Sphingidae), *Tethea or* (DEN. & SCHIFF.) (Drepanidae), *Archips xylosteana* (L.), *Epinotia tetraquetra* (Hw.) (Tortricidae), *Cnaphalocrocis medinalis* (GUEN.) (Crambidae), *Pennisetia hylaeiformis* (LASP.) (Sesiidae), *Yponomeuta*

cagnagella (HB.), *Y. evonymella* (L.) (Yponomeutidae), *Zygaena trifolii* (ESP.) (Zygaenidae), *Acronicta tridens* (DEN. & SCHIFF.), *Agrotis ipsilon* (HFN.), *Autographa gamma* (L.), *Spodoptera frugiperda* (SMITH), *Syngrapha circumflexa* (L.), *Trichoplusia ni* (HB.) (Noctuidae), *Arctia caja* (L.) (Arctiidae), *Eligmodonta ziczac* (L.) (Notodontidae), *Euproctis chrysorrhoea* (L.), *E. similis* (FUES.), *Lymantria dispar* (L.), *L. monacha* (L.) (Lymantriidae), *Compsilura concinnata* (MEIG.), *Epicampocera succincta* (MEIG.) (Tachinidae), *Acrolyta nens* (HART.), *Bathythrix aerea* (GRAV.), *B. pellucidator* (GRAV.), *Blapsidotes vicinus* (GRAV.), *Clypeoteles distans* (THOM.), *Diaglyptidea conformis* (GMEL.), *Diatora lissonota* (VIER.), *Gelis acarorum* (L.), *G. agilis* (F.), *G. albicinctus* (RUTH.), *G. areator* (PANZ.), *G. asozanus* (UCH.), *G. bicolor* (VILL.), *G. cayennator* (THUNB.), *G. cinctus* (L.), *G. discedens* (FORST.), *G. hortensis* (CHR.), *G. kiesenwetteri* (FORST.), *G. limbatus* (GRAV.), *G. longicauda* (THOM.), *G. nigrutilus* (ZETT.), *G. proximus* (FORST.), *G. rubricollis* (THOM.), *G. trux* (FORST.), *G. vulnerans* (FORST.), *Itopectis quadricingulata* (PROV.), *Lysibia nana* (GRAV.), *L. tenax* TOWN., *Mesochorus acuminatus* THOM., *M. americanus* CRESS., *M. angustatus* THOM., *M. curvulus* THOM., *M. discitergus* (SAY), *M. dispar* BRISCH., *M. fuscicornis* BRISCH., *M. gemellus* HOLM., *M. olerum* CURT., *M. velox* HOLMG., *M. vittator* (ZETT.), *Xiphulcus floricator* (GRAV.) (Ichneumonidae), *Cotesia melitaeorum* (WILK.), *C. pieridis* (BOUCH.), *C. rubecula* (MARSH.) (Braconidae), *Baryscapus galactopus* (RATZ.), *B. turionum* (HART.), *Cirrospilus pictus* (NEES), *Elasmus flabellatus* (FONSC.), *E. steffani* VIGG., *Neochrysocharis albiscapus* ERDOS, *Pediobius pyrgo* (WALK.), *Psilocera obscura* WALK., *Tetrastichus sinope* (WALK.) (Eulophidae), *Bruchophagus gibbus* (BOHEM.), *Eurytoma appendigaster* (SWED.), *E. goidanichi* BOUC., *E. strigifrons* THOM., *E. verticillata* (F.) (Eurytomidae), *Catolaccus aeneoviridis* (GIR.), *C. ater* (RATZ.), *C. crassiceps* (MAS.), *Dibrachys affinis* MAS., *D. braconidis* (FERRI. & FAUR.), *D. microgastri* (BOUCH.), *D. palandoekenus* DOG., *Mesopolobus mediterraneus* (MAYR), *Mokrzeckia pini* (HART.), *Panstenon oxylum* (WALK.), *Psychophagus omnivorus* (WALK.), *Pteromalus chrysos* WALK., *P. dispar* (CURT.), *P. microgastris* (KURD.), *P. puparum* (L.), *P. semotus* (WALK.), *P. vibulenus* (WALK.), *Trichomalopsis germanica* (GRAH.), *T. hemiptera* (WALK.), *T. oryzae* KAM. & GRISS. (Pteromalidae), *Eupelmus urozonus* DALM. (Eupelmidae), *Monodontomerus aereus* WALK., *M. dentipes* (DALM.), *M. minor* (RATZ.) (Torymidae), *Athalia proxima* (KLUG.) (Aeshnidae), *Andricus kollari* HART. (Cynipidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Latvia, Lithuania, Moldova, Russia, Belarus, Ukraine, Turkey, Syria, Cyprus, Israel, Iran, Uzbekistan, India, Pakistan, China, Korea, Japan, Vietnam, Australia, New Zealand, Morocco, Egypt, Canada, U.S.A., Brazil, Chile, Uruguay, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975, TELENGA 1955).

Cotesia vanessae (REINHARD 1880)

Material: dist. Gusar, 1.VII.1960, 8 ♀♀, 5 ♂♂, leg. Abdinbekova, dist. Guba, 17.VII.1961, 28.VII.1962, 5 ♂♂, 1 ♀, leg. Abdinbekova, dist. Devechi (now Shabran), 9.VII.1962, 2 ♀♀, 2 ♂♂, leg. Abdinbekova, dist. Lankaran, 30.VI.1966, 1 ♂, leg. Abdinbekova.

Host: *Aglais turcica* (STGR.), *Aglais urticae* (L.), *Argynnis aglaja* (L.), *Inachis io* (L.), *Limnitis camilla* (L.), *Nymphalis polychloros* (L.), *Vanessa atalanta* (L.), *Vanessa cardui* (L.) (Nymphalidae), *Lasiocampa trifolii* (DEN. & SCHIFF.) (Lasiocampidae), *Cnaemidophorus rhododactylus* (DEN. & SCHIFF.) (Pterophoridae), *Loxostege sticticalis* (L.) (Crambidae), *Mythimna litoralis* (CURT.), *Apamea sordens* (HFN.), *Autographa gamma* (L.) (Noctuidae), *Calophasia opalina* (ESP.), *Cerura vinula* (L.) (Notodontidae), *Discestra trifolii* (HFN.), *Eligmodonta ziczac* (L.), *Helicoverpa armigera* (HB.), *Heliothis virescens* (HFN.), *Lacanobia oleracea* (L.), *Macdunnoughia confusa* (STEPH.), *Mamestra brassicae* (L.), *Nycteola revayana* (SCOP.), *Ochropleura praecox* (L.), *Actebia fugax* (TR.), *Simyra dentinosa* FREY., *Spodoptera exigua* (HB.), *Syngrapha circumflexa* (L.), *Thaumetopoea processionea* (L.), *Bathythrix aerea* (GRAV.), *Encrateola laevigata* (RATZ.), *Gelis agilis* (F.), *Itopectis maculator* (F.), *Lysibia nana* (GRAV.) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Latvia, Moldova, Afghanistan, China, Ethiopia, Iran, Kazakhstan, Uzbekistan, Morocco, Russia, Turkey, Ukraine, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia genalis (TOBIAS, 1964)

Material: dist. Khachmaz, 7.IX.1962, 3 ♂♂, leg. Abdinbekova, dist. Goychay, 7.IX.1964-1965, 5 ♀♀, 4 ♂♂, leg. Abdinbekova, dist. Shamkhor (now Shamkir), 19.VIII.1966, 1 ♂, leg. Abdinbekova, dist. Aghdam, 7.VIII.1966, 2 ♂♂, leg. Abdinbekova.

Host: *Helicoverpa zea* (BOD.), *Heliothis armigera* HB., *Heliothis virescens* (HFN.) (TOBIAS et al. 1986, ABDINBEKOVA 1995).

Distribution: Kazakhstan, Georgia, Azerbaijan (ABDINBEKOVA 1975).

Cotesia sessilis (FABRICIUS 1793)

Material: dist. Guba, 23.VI.1962, 1 ♂, leg. Abdinbekova, dist. Goychay, 14-27.VII.1964, 2 ♀♀, leg. Abdinbekova, dist. Nakhichevan, 18.IX.1967, 1 ♂, leg. Abdinbekova, dist. Norashen (now Sharur), 21.IX.1967, 1 ♂, leg. Abdinbekova.

Host: *Aporia crataegi* (L.) (Pieridae), *Eriogaster lanestris* (L.), *Malacosoma castrense* (L.), (Lasiocampidae), *Hedya ochroleucana* (HB.), *Lyonetia rajella* (L.) (Lyonetiidae), *Metendothenia atropunctana* (ZET.) (Tortricidae), *Agrotis segetum* (DEN. & SCHIFF.), *Heliothis armigera* (HB.), *Heliothis peltigera* (DEN. & SCHIFF.), *Pseudaletia unipuncta* (Hw.) (Noctuidae), *Lymantria dispar* (L.) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Lithuania, Moldova, Russia, Kazakhstan, Uzbekistan, Tajikistan, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia praepotens (HALIDAY, 1834)

Material: dist. Guba, 17.VII.1962, 1 ♂, leg. Abdinbekova, dist. Aghdam, 26.VI.1966, 2 ♂♂ leg. Abdinbekova, dist. Kalbajar, 25.VIII.1966, 1 ♀, leg. Abdinbekova, dist. Mardakert (now Aghdere), 20.VI.1967, 1 ♂, leg. Abdinbekova.

Host: *Agriopis aurantiaria* (HB.), *Agriopis bajaria* (DEN. & SCHIFF.), *Agriopis leucophaearia* (DEN. & SCHIFF.), *Agriopis marginaria* (F.), *Alsophila aescularia* (DEN. & SCHIFF.), *Erannis defoliaria* (CL.), *Eupithecia expallidata* DBLD., *E. gueneata* MILL., *E. millefoliata* ROSS., *E. nanata* (HB.), *E. succenturiata* (L.), *Operophtera brumata* (L.), *O. fagata* (SCHARFB.), *Phigalia pilosaria* (DEN. & SCHIFF.), *Poecilocampa populi* (L.), *Tephрина arenacearia* (DEN. & SCHIFF.) (Geometridae), *Iolana iolas* (OCHS.), (Lycaenidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995, YU et al. 2012).

Distribution: Europe, Lithuania, Moldova, Russia, Turkey, Iran, Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan, Afghanistan, Mongolia, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia kazak (TELENGA 1949)

Material: dist. Goychay, 12.VII.1964, 1 ♀, leg. Abdinbekova, dist. Goygol, 16.VIII.1966, 1 ♀, leg. Abdinbekova.

Host: *Apocheima cinerarius* (ERSC.) (Geometridae), *Heliothis armigera* (HUBN.), *H. zea* (BODD.), *H. peltigera* (DEN. & SCHIFF.), *H. virescens* (HFN.) (Noctuidae), *Hyposoter didymator* (THUNB.) (Ichneumonoidea), *Microplitis croceipes* (CRESS.), *M. demolitor* WILKI. (Braconidae), *Dibrachys cavus* (WALK.) (Pteromalidae), *Tetrastichus howardi* (OLLIFF.) (Eulophidae), *Aphanogmus fijiensis* (FERR.) (Ceraphronidae) (TOBIAS et al. 1986, ABDINBEKOVA 1995).

Distribution: Europe, Russia, Turkey, Israel, Iran, Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan, India, Mongolia, Morocco, New Zealand, Australia, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Cotesia pieridis (BOUCHE 1834)

Material: dist. Zagatala, 17.V.1959, 1 ♀, leg. Abdinbekova, dist. Goygol, 16.VIII.1966, 1 ♀, leg. Abdinbekova, Khachmaz, 13.VII.1962, 2 ♂♂, leg. Abdinbekova, dist. Aghdam, 26.IV.1966, 1 ♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 20.VI.1967, 3 ♀♀, leg. Abdinbekova, Baku, 10.X.1960, 1 ♀, leg. Abdinbekova, dist. Guba, 23.VII.1962, 1 ♀, leg. Abdinbekova.

Host: *Aporia crataegi* (L.), *Gonepteryx rhamni* (L.), *Pieris brassicae* (L.) (Pieridae), *Malacosoma castrense* (L.), *M. neustria* (L.), *M. parallelum* STAUD. (Lasiocampidae), *Pandemis chondrillana* (H.-S.) (Tortricidae), *Euproctis chrysorrhoea* (L.), *Orgyia dubia* TAUSCH. (Lymantriidae), *Heliothis armigera* (HUBN.) (Noctuidae), *Dasineura rosae* (BR.) (Cecidomyiidae), *Acrolyta nens* (HART.), *Bathythrix aerea* (GRAV.), *Gelis agilis* (F.), *G. areator* (PANZ.), *Lysibia nana* (GRAV.), *Mesochorus olerum* CURT. (Ichneumonidae), *Cotesia glomerata* (L.) (Braconidae), *Baryscapus galactopus* (RATZ.), *Tetrastichus sinope* (WALK.) (Eulophidae), *Catolaccus ater* (RATZ.), *Dibrachys cavus* (WALK.), *D. microgastri* (BOUCHE), *Pteromalus chrysos* WALK., *P. semotus* (WALK.) (Pteromalidae), *Eurytoma appendigaster* (SWED.), *E. verticillata* (F.) (Eurytomidae), *Monodontomerus aereus* WALK. (Torymidae).

Distribution: Lithuania, Moldova, Russia, Turkey, Kazakhstan, Uzbekistan, Tajikistan, Mongolia, China, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Genus *Protapanteles* ASHMEAD, 1898

Protapanteles sancus (NIXON, 1965)

Material: dist. Gasm Ismayilov (now Goranboy), 14.VII.1956, 1 ♀, leg. Abdinbekova.

Host: *Callophrys rubi* (L.), *Neozephyrus quercus* (L.), *Thecla betulae* (L.) (Lycaenidae), *Mesochorus discitergus* (SAY) (Ichneumonidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Ukraine, Azerbaijan (TOBIAS et al. 1986).

Protapanteles fulvipes (HALIDAY, 1834)

Material: dist. Guba, 20.VII.1961–1962, 2 ♀, 1 ♂, leg. Abdinbekova, dist. Khachmaz, 1.VII.1962, 1 ♂, leg. Abdinbekova, dist. Alty-agach, 12.VII.1965, 1 ♀, leg. Abdinbekova, dist. Shamakhy, 10.VI.1966, 1 ♂, leg. Abdinbekova, dist.

Host: *Camptogramma bilineatum* (L.), *Chesias legatella* (DEN. & SCHIFF.), *Colostygia pectinataria* (KNOCH), *Colotois pennaria* (L.), *Entephria caesiata* (DEN. & SCHIFF.), *Epione vespertaria* (L.) *Epirrhoe alternata* (MULL.), *E. galiata* (DEN. & SCHIFF.), *Erannis defoliaria* (CL.), *Selenia dentaria* (F.), *Xanthorhoe montanata* (DEN. & SCHIFF.) (Geometridae), *Dendrolimus pini* (L.), *D. spectabilis* (BUTL.), *Euthrix potatoria* (L.) (Lasiocampidae), *Pieris brassicae* (L.) (Pieridae), *Vanessa atalanta* (L.), *V. cardui* (L.) (Nymphalidae), *Choreutis pariana* (CL.) (Choreutidae), *Pleuroptya ruralis* SCOP. (Crambidae), *Recurvaria nanella* (DEN. & SCHIFF.) (Gelechiidae), *Abrostola imitatrix* DUF., *Acronicta tridens* (DEN. & SCHIFF.), *Mythimna impura* (HB.), *Allophyes oxyacanthae* (L.), *Amphipyra pyramidea* (L.), *Apamea remissa* (HB.), *Asteroscopus sphinx* (HFN.), *Calliergis ramosa* (ESP.), *Catocala nupta* (L.), *Cerapteryx graminis* (L.), *Charanyca trigrammica* (HFN.), *Cucullia asteris* (DEN. & SCHIFF.), *Cucullia gnaphalii* (HB.), *Diloba caeruleocephala* (L.), *Hoplodrina octogenaria* GOEZE, *Ceramica pisi* (L.), *Leucania comma* (L.), *Lithophane ornitopus* (HFN.), *Lycophotia porphyrea* (DEN. & SCHIFF.), *Lygephila cracca* (DEN. & SCHIFF.), *Noctua fimbriata* (SCHREB.), *N. orbona* (HFN.), *N. pronuba* (L.), *Panolis flammea* (DEN. & SCHIFF.), *Spaelotis ravidia* (DEN. & SCHIFF.), *Stilbia anomala* (HW.), *S. faillae* PUNG., *Syngrapha interrogationis* (L.), *Xestia xanthographa* (DEN. & SCHIFF.), *Xylocampa areola* (ESP.) (Noctuidae), *Clostera anastomosis* (L.), *C. pigra* HFN. (Notodontidae), *Euproctis chrysorrhoea* (L.), *E. similis* (FUESS.), *Lymantria dispar* (L.) (Lymantriidae), *Phragmatobia fuliginosa* (L.) (Arctiidae), *Stictopisthus formosus* (BRIDGMAN 1882) (Ichneumonidae), *Dibrachys cavus* (WALK.), *D. microgastri* (BOUCHE), *Trichomalopsis hemiptera* (WALK.) (Pteromalidae), *Eurytoma appendigaster* (SWED.) (Eurytomidae), *Pediobius pyrgo* (WALK.), *Pediobius saulius* (WALK.) (Eulophidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Faeroe Islands, Lithuania, Moldova, Russia, Belarus, Ukraine, Turkey, Kazakhstan, Mongolia, Korea, Japan, Canary Islands, Canada, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Protapanteles vitripennis (CURTIS, 1830)

Material: dist. Shamakhy, 26.V.1966, 1 ♀, leg. Abdinbekova.

Host: *Alcis repandata* (L.), *Anticlea badiata* (DEN. & SCHIFF.), *Biston betularia* (L.), *B. strataria* (HFN.), *Cabera pusaria* (L.), *Chesias legatella* (DEN. & SCHIFF.), *C. rufata* (F.), *Cleorodes lichenaria* (HFN.), *Crocallis elinguaris* (L.), *Cyclophora punctaria* (L.), *Dendrolimus pini* (L.), *Deudorix epijarbas* (MR.) (Lycaenidae), *Eupithecia lariciata* (FR.), *Isturgia miniosaria* (DUPON.), *Isturgia perspersaria* (DUPON.), *Leptidea sinapis* (L.), *Limenitis populi* (L.), *Macaria liturata* (CL.), *Odontopera bidentata* (CL.), *Operophtera brumata* (L.), *Peribatodes rhomboidaria* (DEN. & SCHIFF.), *Peribatodes secundaria* (DEN. & SCHIFF.), *Thera juniperata* (L.), *Thera variata* (DEN. & SCHIFF.), *Archips rosana* (L.), *A. xylosteana* (L.), *Gelechia nervosella* ZERN., *G. senticetella* STGR., *Hellula undalis* (F.), *Plutella xylostella* (L.), *Yponomeuta cagnagella* HB., *Y. malinella* ZELL., *Y. padella* (L.) (Yponomeutidae), *Acronicta psi* (L.), *Allophytes oxyacanthae* (L.), *Amphipyra pyramidea* (L.), *Catocala nupta* (L.), *Diloba caeruleocephala* (L.), *Eupsilia transversa* (HFN.), *Graphiphora augur* (F.), *Polia nebulosa* (HFN.), *Cucullia verbasci* (L.), *Xestia xanthographa* (DEN. & SCHIFF.) (Noctuidae), *Euproctis chrysorrhoea* (L.), *Leucoma salicis* (L.), *Lymantria dispar* (L.), *L. monacha* (L.) (Lymantriidae), *Ocnogyna loewii* ZELL., *Phragmatobia fuliginosa* (L.) (Arctiidae), *Gelis acarorum* (L.) (Ichneumonidae), *Dibrachys microgastri* (BOUCHE) (Pteromalidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Protopanteles porthetriae (MUESEBECK, 1928)

Material: dist. Ordubad, 8.VI.1967, 1 ♀, leg. Abdinbekova.

Host: *Lymantria dispar* (L.) (Lymantriidae) (TOBIAS et al. 1986).

Distribution: Europe, Russia, Morocco, Azerbaijan (ABDINBEKOVA, 1975).

Protopanteles falcatus (NEES, 1834)

Material: dist. Gadabay, 20.VII.1966, 1 ♀, leg. Abdinbekova, dist. Aghdam, 13.VII.1966, 1 ♀, leg. Abdinbekova, dist. Dashkesan, 7-8.VII.1966, 6 ♂♂, leg. Abdinbekova.

Host: *Adaina microdactyla* (HB.), *Emmelinea monodactyla* (L.) (Pterophoridae), *Hepialus humuli* (L.) (Hepialidae), *Rhyacionia buoliana* (DEN. & SCHIFF.), *Zeiraphera griseana* HB. (Tortricidae), *Synanthedon tipuliformis* (CL.) (Sesiidae), *Actinotia polyodon* (CL.) (Noctuidae), *Apamea lateritia* (HFN.), *Apamea monoglyphia* (HFN.), *Formica rufa* (L.) (Formicidae).

Distribution: Europe, Estonia, Latvia, Lithuania, Belarus, Russia, Turkey, Kazakhstan, Uzbekistan, Mongolia, Korea, Japan, Indonesia, Egypt (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Genus *Apanteles* FOERSTER, 1862

Material: dist. Gusar, 15.VII.1960, 1 ♀, leg. Abdinbekova.

Host: *Acleris ferrugana* (DEN. & SCHIFF.) (Tortricidae), *Argyresthia mendica* STT. (Yponomeutidae), *Bucculatrix ulmifoliae* HER. (Bucculatricidae), *Callisto denticulella* (THUNB.), *Caloptilia alchimiella* (SCOP.), *C. semifascia* (HW.), *Eucalybites auroguttella* (STEPH.), *Cameraria ohridella* DESH. & DIM. (Gracillariidae), *Choreutis pariana* (CL.) (Choreutidae), *Coleophora ardeaepennella* SCOTT, *C. glitzella* HOFM. (Coleophoridae), *Elachista apicipunctella* STT., *E. gangabella* ZELL., *E. gleichenella* F., *E. humilis* ZELL., *E. luticomella* ZELL., *E. megerlella* HB., *E. poae* STT., *E. regificella* SIRC., *E. revinctella* ZELL., *E. taeniatella* STT. (Elachistidae), *Epinotia ferrugana* TR. (Tortricidae), *Gracillaria syringella* (F.), *Parornix devoniella* (STT.), *P. fagivora* (FREY), *P. finitimella* (ZELL.), *P. petiolella* (FREY), *P. torquilella* (ZELL.) (Gracillariidae), *Leucoptera malifoliella* (COSTA), *L. sinuella* RTT. (Lyonetiidae), *Parectopa robinella* CL., *Phyllonorycter agilella* (ZELL.), *P. apparella* H.-S., *P. blancardella* (F.), *P. cavella* (ZELL.), *P. comparella* (DUPON.), *P. connexella* ZELL., *P. coryli* (NIC.), *P. corylifoliella* (HB.), *P. emberizaepennella* (BOUCHE), *P. fraxinella* ZELL., *P. froelichiella* (ZELL.), *P. harrisella* (L.), *P. ilicifoliella* DUPON., *P. junoniella* (ZELL.), *P. kleemannella* (F.), *P. lantanella* (SCH.), *P. lautella* (ZELL.), *P. leucographella* ZELL., *P. maestingella* (MULL.), *P. mahalebella* MUHL., *P. manni* ZELL., *P. mespilella* (HB.), *P. messaniella* (ZELL.), *P. millierella* STAUD., *P. nicellii* (STT.), *P. nigrescentella* (LOG.), *P. oxyacanthae* (FREY), *P. platani* STAUD., *P. pomifoliella* ZELL., *P. pomonella* ZELL., *P. populifoliella* TR., *P. quercifoliella* (ZELL.), *P. ringoniella* MATS., *P. robinella* (CL.), *P. schreberella* (F.), *P. sorbi* (FREY), *P. spinicolella* (ZELL.), *P. strigulatella* (LIEN. & Z.), *P. tenerella* (JOAN.), *P. trifasciella* (HW.), *P. ulmifoliella* (HB.) (Gracillariidae), *Stephensia brunnichella* (L.) (Elachistidae), *Tortrix viridana* (L.) (Tortricidae), *Melanchnra persicariae* (L.) (Noctuidae), *Encrateola laevigata* (RATZ.), *Gelis mutillatus* (GMEL.) (Ichneumonidae), *Baryscapus endemus* (WALK.), *Chrysocharis laomedon* (WALK.), *C. nepherea* (WALK.), *C. nitetis* (WALK.), *Cirrospilus lyncus* WALK., *C. pictus* (NEES), *C. pulcher* MASI, *Cirrospilus viticola* (ROND.), *Closterocerus trifasciatus* WESTW. (Eulophidae), *Dibrachys microgastri* (BOUCHE) (Pteromalidae), *Eupelmus urozonus* DALM., *Minotetrastichus frontalis* (NEES), *Pediobius saulius* (WALK.), *Phygadeuon agraulis* (WALK.), *Phygadeuon pectinicornis* (L.), *Sympiesis acalle* (WALK.), *Sympiesis gordius* (WALK.), *Sympiesis sericeicornis* (NEES) (Eupelmidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Latvia, Lithuania, Moldova, Russia, Ukraine, Iran, Israel, Korea, Madeira Islands, New Zealand, U.S.A., South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles metacarpalis (THOMSON, 1895)

Material: dist. Aghdam, 11.V.1964, 1 ♀, leg. Abdinbekova.

Host: *Drupadia theda* (C. & R. FELD.) (Lycaenidae), *Caloptilia semifascia* (Hw.) (Gracillariidae), *Phthorimaea seminella* (F.v.R.), *Scrobipalpa* (*Euscrobipalpa*) *instabilella* (DOUGL.), *S.(E.) nitentella* FUCHS, *S.(E.) obsoletella* (F. V. R.), *S. plantaginella* STT. (Gelechiidae) (YU et al. 2012).

Distribution: Europe, Moldova, Ukraine, Russia, Mongolia, Korea, China, Uzbekistan, Tajikistan, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles firmus TELENGA 1949

Material: dist. Masally, 28.V.1965, 1 ♀, leg. Abdinbekova.

Host: *Acleris quercinana* ZELL. (Tortricidae) (YU et al. 2012).

Distribution: Europe, Ukraine, Russia, Tajikistan, Mongolia, Korea, South caucasus, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles urgo NIXON, 1965

Material: dist. Mardakert (now Aghdere), 21.VI.1967, 1 ♀, leg. Abdinbekova, dist. Shamkhor (now Shamkir), 19.VIII.1966, 1 ♀, leg. Abdinbekova.

Host: unknown.

Distribution: Europe, Turkey, Mongolia, Azerbaijan (TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles contortus TOBIAS, 1964

Material: dist. Astara, 25, 28.VI.1966, 2 ♀ ♀, leg. Abdinbekova, dist. Lankaran, 6.IX.1965-1966, 2 ♂ ♂, leg. Abdinbekova.

Host: unknown.

Distribution: Europe, Moldova, Russia, Kazakhstan, Uzbekistan, Kyrgyzstan, Afghanistan, Turkey, Mongolia, Korea, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles laevigatus (RATZBURG, 1848)

Material: dist. Masally, 28.IX.1965, 1 ♀, leg. Abdinbekova.

Host: *Lyctus linearis* (GOEZE) (Bostrichidae), *Chrysomela graminis* (L.), *Chrysomela tremulae* F., *Chrysomela populi* L. (Chrysomelidae), *Saperda populnea* (L.) (Cerambycidae), *Anthonomus phyllocola* (HRBST.), *Pityogenes chalcographus* (L.) (Curculionidae), *Byctiscus betulae* (L.) (Attelabidae), *Acleris forsskaleana* (L.), *Ancylis laetana* F., *Archips betulana* (HB.), *Archips crataegana* (HB.), *Archips rosana* (L.), *Archips xylosteana* (L.), *Acleris bergmanniana* (L.), *Enarmonia formosana* (SCOP.), *Gypsonoma aceriana* (DUPON.), *Gypsonoma minutana* (HB.), *Hedya salicella* (L.), *Pandemis heparana* (DEN. & SCHIFF.), *Parapandemis chondrillana* (H.-S.), *Spilonota ocellana* (DEN. & SCHIFF.), *Tortrix viridana* (L.) (Tortricidae), *Adaina microdactyla* (HB.) (Pterophoridae), *Anacampsis populella* (CL.), *Anacampsis timidella* (WOCKE) (Gelechiidae), *Coleophora coracipennella* (HB.) (Coleophoridae), *Galleria mellonella* (L.) (Pyralidae), *Gelechia sestertiella* (H.-S.), *Gelechia turpella* (DEN. & SCHIFF.) (Gelechiidae), *Lampronia fuscata* (TENG.) (Prodoxidae), *Palpita unionalis* (HB.) (Crambidae), *Paranthrene tabaniformis* (ROTT.), *Sesia apiformis* (CL.) (Sesiidae), *Triaxomera parasitella* (HB.) (Tineidae), *Zeuzera pyrina* (L.) (Cossidae), *Euproctis chrysorrhoea* (L.) (Lymantriidae), *Dasineura pyri* (BOUCHE) (Cecidomyiidae), *Hoplocampa minuta* (CHRIST.) (Tenthredinidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA, 1975).

Distribution: Europe, Latvia, Lithuania, Moldova, Russia, Turkey, Israel, Ukraine, Uzbekistan, China, Kazakhstan, Korea, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles emarginatus (NEES, 1834)

Material: dist. Gusar, 6.VII.1960, 2 ♀ ♀, leg. Abdinbekova, 7.VII.1962, 2 ♀ ♀, leg. Abdinbekova.

Host: *Pteleobius vittatus* (F.) (Curculionidae), *Chloroclysta siterata* (HFN.) (Geometridae), *Vanessa cardui* (L.) (Nymphalidae), *Acleris forsskaleana* (L.), *Aethes dilucidana* (STEPH.), *Aleimma loeflingiana* (L.), *Ancylis laetana* F., *Archips xylosteana* (L.), *Choristoneura diversana* (HB.), *Cnephasia chrysanthaeana* (DUPON.), *Cnephasia stephensiana* (DOUBL.), *Cydia pomonella* (L.), *Dichelia histrionana* (FROL.), *Epinotia caprana* F., *Ptycholomoides aeriferanus* (H.-S.), *Tortrix viridana* (L.), *Zeiraphera isertana* F. (Tortricidae), *Agonopterix alstroemeriana* (CL.), *A. arenella* (DEN. & SCHIFF.), *A. atomella* (DEN. & SCHIFF.), *A. carduella* (HB.), *A. heracliana* (L.), *A. nervosa* (Hw.), *A. propinquella* Tr., *A. subpropinquella* (STT.) (Depressariidae), *Anacampsis timidella* WOCKE, *Anarsia lineatella* ZELL., *Sophronia grandii* (HER.) (Gelechiidae), *Caloptilia cuculipennella* (HB.),

C. fribergensis (FRITZ.), *C. rufipennella* (HB.) (Gracillariidae), *Depressaria chaerophylli* ZELL., *D. daucella* (DEN. & SCHIFF.), *D. pastinacella* (DUPON.) (Depressariidae), *Galleria mellonella* (L.) (Pyralidae), *Plutella xylostella* (L.) (Plutellidae), *Yponomeuta evonymella* (L.) (Yponomeutidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Moldova, Russia, Turkey, Israel, Iran, Kazakhstan, South Caucasus, Azerbaijan TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles appellator TELENGA, 1949

Material: dist. Gusar, 28.V.1965, 1 ♂, leg. Abdinbekova, dist. Guba, 15.VIII.1967, 1 ♀, leg. Abdinbekova.

Host: *Etiella zinckenella* (TR.) (Phycitidae), *Phthorimaea operculella* (ZELL.) (Gelechiidae), *Plutella xylostella* (L.) (Plutellidae), *Pyrausta purpuralis* (L.), *Pyrausta sanguinalis* (L.) (Crambidae), *Spilonota ocellana* (DEN. & SCHIFF.) (Tortricidae), *Athalia rosae* (L.) (Tenthredinidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Belarus, Russia, Ukraine, Moldova, Turkey, Cyprus, Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan, Afghanistan, Mongolia, China, Selvagens Islands, Cape Verde Islands, Egypt, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles phaloniae WILKINSON, 1940

Material: dist. Gusar, 12.VII.1960, 1 ♀, leg. Abdinbekova, dist. Guba, 28.VII.1960, 1 ♀, leg. Abdinbekova dist. Goychay, 2.X.1964, 1 ♂, leg. Abdinbekova.

Host: *Aethes smeathmanniana* (F.) (Tortricidae), *Isophrictis striatella* (DEN. & SCHIFF.) (Gelechiidae), *Zeuzera pyrina* (L.) (Cossidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Moldova, Russia, Israel, Madeira Islands, Azerbaijan TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles xanthostigma (HALIDAY, 1834)

Material: dist. Gusar, 9.VII.1960, 1 ♀, leg. Abdinbekova, dist. Guba, 22.VII.1960, 1 ♀, leg. Abdinbekova.

Host: *Epirrita autumnata* (BKH.), *Eupithecia exiguita* (HB.), *Hydriomena impluviata* (DEN. & SCHIFF.), *Operophtera brumata* (L.) (Geometridae), *Acleris ferrugana* (DEN. & SCHIFF.), *A. variegana* (DEN. &

SCHIFF.), *Aleimma loeflingiana* (L.), *Adoxophyes orana* F.V.R., *Ancylys achatana* (DEN. & SCHIFF.), *Archips crataegana* (HB.), *A. oporana* (L.), *A. rosana* (L.), *A. xylosteana* (L.), *Cacoecimorpha pronubana* (HB.), *Dichelia histrionana* (FROL.), *Cydia funebrana* (TR.), *C. pomonella* (L.), *Grapholita molesta* (BUSCK), *Gypsonoma minutana* (HB.), *Hedya nubiferana* (HW.), *H. pruniana* HB., *Pandemis cerasana* (HB.), *P. heparana* (DEN. & SCHIFF.), *Ptycholoma lecheana* (L.), *Rhopobota naevana* (HB.), *Spilonota ocellana* (DEN. & SCHIFF.), *S. prognathana* SN., *Tortrix viridana* (L.), *Syndemis musculana* (HB.), *Zeiraphera griseana* (HB.) (Tortricidae), *Callisto denticulella* (THUNB.) (Gracillariidae), *Choreutis diana* (HB.), *C. nemorana* (HB.), *C. pariana* (CL.) (Choreutidae), *Diurnea fagella* (DEN. & SCHIFF.) (Chimabachidae), *Ectoedemia (Fomoria) weaveri* (STT.) (Nepticulidae), *Syllepte derogata* (F.), *Palpita vitrealis* (ROSSI) (Crambidae), *Paraswammerdamia albicapitella* (SCHARF.), *Paraswammerdamia lutarea* (HW.), *Prays oleae* (BERN.), *Swammerdamia caesiella* (HB.), *Swammerdamia lutaria* (HW.), *Swammerdamia pyrella* (VILL.) (Yponomeutidae), *Parornix anguliferella* (ZELL.), *Parornix betulae* (STT.), *Parornix finitimella* (ZELL.), *Phyllonorycter blancardella* (F.), *Phyllonorycter junoniella* (ZELL.), *Phyllonorycter mespilella* (HB.) (Gracillariidae), *Recurvaria leucatella* (CL.), *Recurvaria nanella fagella* (DEN. & SCHIFF.), *Scrobipalpa (Euscrobipalpa) atriplicella* (F.V.R.) (Gelechiidae), *Eublemma scitula* RAMB. (Noctuidae), *Leucoma salicis* (L.), *Lymantria dispar* (L.) (Lymantriidae), *Dasineura pyri* (BOUCHE), *Rabdophaga rosaria* (LOEW) (Cecidomyiidae), *Xanthandrus comtus* (HAR.) (Syrphidae), *Gelis areator* (PANZ.), *G. fallax* (FORST.) *G. glacialis* (HOLM.), *Itopectis maculator* (F.), *Mesochorus pallipes* BR. (Ichneumonidae), *Elasmus flabellatus* (FONS.) (Eulophidae), *Syrphophagus aeruginosus* (DALM.) (Encyrtidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Faeroe Islands, Europe, Latvia, Lithuania, Belarus, Moldova, Ukraine, Russia, Turkey, Kazakhstan, Tajikistan, Mongolia, Japan, Madeira Islands, Tunisia, Uganda, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles albipennis (NEES, 1834)

Material: dist. Aghdam, 22.VI.1967, 1 ♀, leg. Abdinbekova, dist. Lankaran, 14.IX.1965, 1 ♀, leg. Abdinbekova.

Host: *Gillmeria pallidactyla* (HW.) (Pterophoridae), *Caryocolum tricolorella* (HW.), *Aristotelia brizella* (TR.) (Gelechiidae), *Aethes francillana* (F.), *Eucosma aemulana* (SCHLAG.), *Archips xylosteana* (L.), *Tortrix viridana* L., *Cnephasia sedana* (CONST.) (Tortricidae), *Tinagma ocnorostomella* (STT.) (Douglasiidae), *Leucoptera malifoliella* (O. COSTA) (Lyonetiidae), *Argyrestia brockeella* (HB.) (Yponomeutidae), *Operophtera brumata* (L.) (Geome-

tridae), *Zeuzera pyrina* (L.) (Cossidae), *Malacosoma neustria* (L.) (Lasiocampidae), *Etiella zinckenella* Tr. (Pyralidae), *Anthonomus pomorum* (L.) (Curculionidae), *Andricus multiplicatus* Gir. (Cynipidae), *Synanthedon tipuliformis* (Cl.) (Sesiidae) (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA, 1975).

Distribution: Europe, Russia, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Apanteles obscurus (NEES, 1834)

Material: dist. Zagatala, 7.VIII.1959-1960, 4 ♀♀, leg. Abdinbekova, dist. Guba, 5.X.1961-1962, 10 ♂♂, 6 ♀♀, leg. Abdinbekova, dist. Khachmaz, 26.VII.1962, 2 ♀♀, leg. Abdinbekova, dist. Gusar, 11.VII.1961, 2 ♀♀, leg. Abdinbekova, dist. Goychay, 13.V.1964, 5 ♀♀, 24.VII.1964, 10 ♀♀, 5 ♂♂, leg. Abdinbekova, dist. Aghdam, 5.VIII.1965, 2 ♂♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 21.IV.1966, 1 ♀, leg. Abdinbekova, dist. Lerik, 15.V.1966, 1 ♀, leg. Abdinbekova, dist. Astara, 14-28.VI.1966, 19 ♀♀, 12 ♀♀, leg. Abdinbekova, dist. Kalbajar, 8-9.IX.1966, 6 ♀♀, leg. Abdinbekova, dist. Lankaran, 13, 30.VI.1966, 5 ♂♂, leg. Abdinbekova, dist. Kirovabad (now Ganja), 8.IX.1966, 6 ♂♂, leg. Abdinbekova, dist. Khankendi, 22.VIII.1966, 3 ♀♀, leg. Abdinbekova, dist. Shahbuz, 22.V.1967, 1 ♀, leg. Abdinbekova, dist. Nakhchivan, 18.IX.1967, 3 ♀♀, leg. Abdinbekova, dist. Ordubad, 20.IX.1967, 4 ♂♂ leg. Abdinbekova.

Host: *Chlorissa viridata* (L.) (Geometridae), *Eurodryas aurinia* (ROTT.) (Nymphalidae), *Anania terrealis* (Tr.), *A. crocealis* (Hb.) (Crambidae), *Boiea murana* (CURT.), *Choristoneura murinana* (Hb.), *Clepsis pallidana* (F.), *Argyroplote arbutella* (L.) (Tortricidae), *Epermenia chaerophyllella* (GOEZ.) (Epermeniidae), *Gracillaria syringella* (F.) (Gracillariidae), *Pyrausta cingulata* (L.), *Udea ferrugalis* (Hb.) (Crambidae), *Tebenna bjerkan-drella* (THUNB.) (Choreutidae), *Zygaena filipendulae* (L.) (Zygaenidae), *Tephritis arnicae* (L.) (Tephritidae) (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Moldova, Russia, Turkey, Iran Kazakhstan, Mongolia, South Caucasus, Azerbaijan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles infimus (HALIDAY, 1834)

Material: dist. Goychay, 9.X.1964, 3 ♀♀, leg. Abdinbekova.

Host: *Acrolepia autumnitella* CUR. (Acrolepiidae), *Coleophora albitarsella* ZELL., *C. alticolella* ZELL., *C. caespitiella* ZELL., *C. glaucicolella* WOOD, *C. serratella* (L.) (Coleophoridae), *Epermenia chaerophyllella* (GOEZ.) (Epermeniidae), *Plutella porrectella* (L.) (Plutel-

lidae) Azerbaijan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Russia, Turkey, Kazakhstan, Uzbekistan, Mongolia, Azerbaijan (ABDINBEKOVA 1975).

Apanteles imperator WILKINSON, 1939

Material: dist. Khachmaz, 9.IX.1964, 2 ♀♀, 1 ♂, leg. Abdinbekova.

Host: *Xylotrechus capricornis* GEBL. (Cerambycidae), *Chesias legatella* (DEN. & SCHIFF.) (Geometridae), *Acrolepia autumnitella* CURT. (Acrolepiidae), *Agonopterix assimilella* Tr., *A. heracliana* (L.), *A. nervosa* (Hw.), *Depressaria daucella* (DEN. & SCHIFF.), *D. pastinacella* (DUPON.) (Depressariidae), *Calybites auroguttella* (STEPH.) (Gracillariidae), *Cnephasia (Cnephasiella) incertana* (Tr.) (Tortricidae), *Epermenia aequidentellus* (HOFM.), *E. chaerophyllella* (GOEZ.) (Epermeniidae), *Plutella porrectella* (L.), *P. xylostella* (L.) (Plutellidae), *Mesochorus pallipes* BR. (Ichneumonidae) Azerbaijan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Moldova, Kazakhstan, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Apanteles longicauda WESMAEL, 1837

Material: dist. Lankaran, 5.IX.1965, 2 ♀♀, leg. Abdinbekova, dist. Lachin, 22.VIII.1966, 1 ♀, leg. Abdinbekova.

Host: *Bucculatrix cristatella* (ZELL.) (Bucculatricidae), *Choreutis nemorana* (Hb.), *Choreutis pariana* (CL.) (Choreutidae), *Anarsia eleagnella* KUZN., *A. lineatella* ZELL., *Pseudotellus proximella* Hb. (Gelechiidae), *Blastodacna atra* (Hw.) (Agonoxenidae), *Agonopterix ocellana* (F.) (Depressariidae), *Carcina quercana* (F.) (Oecophoridae), *Etiella zinckenella* (Tr.) (Pyralidae), *Plutella xylostella* (L.) (Plutellidae), *Acleris quercinana* ZELL., *Archips rosana* (L.), *Hedya pruniana* (Hb.), *Pandemis chondrillana* (H.-S.), *Tortrix viridana* (L.) (Tortricidae), *Paraswammerdamia caesiella* (Hb.), *P. lutarea* (Hw.) (Yponomeutidae) (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, South Caucasus, Azerbaijan (ABDINBEKOVA 1975).

Apanteles gracilariae WILKINSON, 1940

Material: dist. Guba, 5.VI.1961, 9 ♀♀, leg. Abdinbekova, dist. Absheron, 24.V.1967, 1 ♂, leg. Abdinbekova, dist. Mardakert (now Aghdere), 14.VI.1966, 2 ♂♂, leg. Abdinbekova, dist. Goychay, 14.V.1964, 2 ♀♀, leg. Abdinbekova.

Host: *Plutella maculipennis* CURT. (Plutellidae), *Caloptilia theivora* WALS., *Gracillaria syringella* (F.) (Gracillariidae), *Conchylis epilina* ZELL., *Etiella zinckenella* (Tr.) (Pyralidae), *Lyonetia clerkella* (L.) (Lyonetiidae), *Coleophora coracipennella* (HB.) (Coleophoridae), *Amphipyra pyramidea* (L.) (Noctuidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Russia, Central Asia, South Caucasus, China, Azerbaijan (ABDINBEKOVA 1975).

Apanteles sicarius MARSHALL, 1885

Material: dist. Nakhchivan, 2.VI.1967, 1 ♀, leg. Abdinbekova.

Host: *Carcharodus alceae* (Esp.) (Hesperiidae), *Vanessa cardui* (L.) (Nymphalidae), *Acrolepia autumnitella* CURT. (Acrolepiidae), *Adoxophyes orana* (F.v.R.), *Aethes francillana* (F.), *Ancylys laetana* (F.), *Archips rosana* (L.), *Cochylis posterana* ZELL., *Cydia nigricana* (F.), *Eucosma aemulana* (SCHLAG.), *Hedya nubiferana* (Hw.), *Lobesia (Polychrosis) botrana* (DEN. & SCHIFF.), *Sparganothis pilleriana* (DEN. & SCHIFF.), *Spilonota ocellana* (DEN. & SCHIFF.) (Tortricidae), *Agonopterix arenella* (DEN. & SCHIFF.), *Depressaria discipunctella* (H.-S.) (Depressariidae), *Choreutis nemorana* (HB.) (Choreutidae), *Diasemia reticularis* (L.) (Crambidae), *Elachista megerlella* (HB.) (Elachistidae), *Etiella zinckenella* (Tr.) (Pyralidae), *Isophrictis anthemidella* (WOCKE), *I. striatella* (DEN. & SCHIFF.), *Pexicopia malvella* (HB.), *Scrobipalpa (Euscrobipalpa) instabilella* (DOUGL.), *S.(E.) obsolete* (F.v.R.) (Gelechiidae), *Mompha sturnipennella* (Tr.) (Mompidae), *Plutella porrectella* (L.), *Plutella xylostella* (L.) (Plutellidae), *Chaetostomella cylindrica* (R.-D.) (Tephritidae).

Distribution: Europe, Estonia, Belarus, Russia, Ukraine, Moldova, Turkey, Kazakhstan, Mongolia, Morocco, New Zealand, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles lacteoides NIXON, 1965

Material: dist. Guba, 1.X.1961, 1 ♀, leg. Abdinbekova, dist. Masally, 3.IX.1965, 1 ♀, leg. Abdinbekova.

Host: *Acrobasis sodalella* ZELL., *Homoeosoma nebulella* (DEN. & SCHIFF.) (Pyralidae) (YU et al., 2012, TOBIAS et al. 1986, ABDINBEKOVA, 1975).

Distribution: Europe, Russia, Ukraine, Turkey, Kazakhstan, Uzbekistan, Turkmenistan, Mongolia, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles ater (RATZEBURG 1852)

Material: dist. Nukha (now Sheki), 8.VII.1965, 1 ♀, leg. Abdinbekova, dist. Astara, 25.VI.1965, 1 ♀ leg. Abdinbekova.

Host: *Archyps xylostean* (L.), *A. podana* (SCOP.), *A. crataegana* (HB.), *A. rosana* (L.), *Adoxophyes orana* (F.v.R.), *Pandemis heparana* (DEN. & SCHIFF.), *Spilonota ocellana* (F.), *Cydia pomonella* (L.), *Grapholita (Aspila) funebrana* (Tr.), *G. janthinana* (DUPON.) (Tortricidae), *Biston betularia* (L.), *Operophtera brumata* (L.) (Geometridae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, South Caucasus, Azerbaijan (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles lacteicolor VIERECK, 1911

Material: dist. Guba, 8.VII.1961, 1 ♂, leg. Abdinbekova, dist. Goychay, 17.VII.1964, 11 ♀ ♀, leg. Abdinbekova, dist. Masally, 3.IX.1965, 4 ♂ ♂, leg. Abdinbekova.

Host: *Malacosoma americanum* (F.), *M. neustria* (L.) (Lasiocampidae), *Theria rupicaprar* (DEN. & SCHIFF.) (Geometridae), *Carcina quercana* (F.) (Oecophoridae), *Cydia funebrana* (Tr.) (Tortricidae), *Heterogenea asella* (DEN. & SCHIFF.) (Limaecodidae), *Palpita unionalis* (HUBN.) (Crambidae), *Sterrhopterix fusca* (Hw.) (Psychidae), *Theresimima ampelophaga* (B.-B.) (Zygaenidae), *Acronicta aceris* (L.), *A. hasta* (GUEN.), *A. leporina* (L.), *A. megacephala* (DEN. & SCHIFF.), *A. psi* (L.), *A. tridens* (DEN. & SCHIFF.) (Noctuidae), *Bena prasinana* (L.), *Nola cucullatella* (L.), *Nycteola asiatica* (KR.) (Nolidae), *Cerura vinula* (L.) (Notodontidae), *Colocasia coryli* (L.) (Pantidae), *Dicranura ulmi* (DEN. & SCHIFF.) (Notodontidae), *Eublemma conspersa* (BUTL.) (Erebidae), *Euproctis chrysorrhoea* (L.), *E. subflava* (BR.), *E. chrysorrhoea* (L.), *E. similis* (FUESS.), *E. terminalis* (WALK.), *Lymantria dispar* (L.), *Orgyia antiqua* (L.), *O. leucostigma* (SMITH) (Lymantriidae), *Hyphantria cunea* (DR.), *Spilosoma lutea* (HFN.) (Arctiidae), *Townsendiellomyia nidicola* (TOWN.) (Tachinidae), *Acrolyta marginata* (BRIDG.) (Ichneumonidae), *Conura albifrons* (WALSH.) (Chalcididae), *Dibrachys cavus* (WALK.), *Dibrachys microgastri* (BOUCH.), *Pteromalus egregius* (FORST.), *Trichomalopsis hemiptera* (WALK.), *T. peregrina* (GRAH.) (Pteromalidae), *Eurytoma appendigaster* (SWED.), *E. verticillata* (F.) (Eurytomidae), *Monodontomerus aereus* (WALK.) (Torymidae), *Pediobius crassicornis* (THOM.) (Eulophidae) (YU et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Ukraine, Moldova, Russia, Turkey, Israel, Iran, Kazakhstan, Uzbekistan, Tajikistan, Afghanistan, Mongolia, China, Korea, Japan,

Canada, U.S.A., South Caucasus, Azerbaijan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Apanteles coleophorae WILKINSON, 1938

Material: dist. Agdash, 20.V.1964, 1 ♀, leg. Abdinbekova.

Host: *Ancylis laetana* (F.) (Tortricidae), *Coleophora dahurica* (FLKV.), *Coleophora ibipennella* ZELL., *C. luscini-iaepennella* (Tr.), *C. serratella* (L.), *C. tadjikiella* DANIL. (Coleophoridae), *Acronicta rumicis* (L.) (Noctuidae) (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Azerbaijan; Canada; Canada-Newfoundland & Labrador; Czechoslovakia; Finland; Hungary; Poland; Romania; Russia; Russia-Khabarovsk Kray; Russia-Voronezhskaya Oblast; Russia-Yaroslavl Oblast; Slovakia; Switzerland; Tajikistan; Turkey; United Kingdom; Uzbekistan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Subfamily Miracinae

Genus *Mirax* HALIDAY, 1833

Mirax rufilabris HALIDAY, 1833

Material: dist. Gusar, 9.VII.1963. 1 ♀, leg. Abdinbekova.

Host: *Coleophora chamaedriella* (Br.) (Coleophoridae), *Ectoedemia agrimoniae* (FREY), *E. angulifasciella* (STT.), *E. (Laqueus) euphorbiella* (STT.), *E. hannoverella* (GLITZ.), *E. hexapetalae* (SZOCS), *E. intimella* (ZELL.), *E. (Fomoria) septembrella* (STT.), *E. suberis* (STT.), *E. (Laqueus) tergestina* (KLIM.), *E. turbidella* (ZELL.), *E. (Fomoria) weaveri* (STT.), *Parafomoria helianthemella* (H.-S.), *P. liguricella* (KLIM.), *Stigmella aeneofasciella* (H.-S.), *S. anomalella* (GOEZ.), *S. atricapitella* (HAW.), *S. aurella* (F.), *S. betulicola* (STT.), *S. carpinella* (HEIN.), *S. catharticella* (STT.), *S. filipendulae* (WOCK.), *S. floslactella* (HAW.), *S. glutinosae* (STT.), *S. incognitella* (H.-S.), *S. lemniscella* (ZELL.), *S. microtheriella* (STT.), *S. myrtillella* (STT.), *S. nivenburgensis* (PREISS.), *S. obliquella* (HEIN.), *S. plagiolella* (STT.), *S. prunetorum* ((STT.), *S. salicis* (STT.), *S. suberivora* (STT.), *Trifurcula (Glaucolepis) alypella* (KLIM.), *T. (Levarchama) anthyllidella* (KLIM.), *T. (Levarchama) cryptella* (STT.), *T. immundella* (ZELL.), *T. (Glaucolepis) thymi* (SZOCS.) (Nepticulidae) (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

Distribution: Europe, Lithuania, Moldova, Russia, Ukraine, Turkey, Iran, Madeira Islands, Canary Islands, South Azerbaijan (Yu et al. 2012, TOBIAS et al. 1986, ABDINBEKOVA 1975).

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Besprechung / Review

MENKE, N.; GÖCKING, CH.; GRÖNHAGEN, N.; JOEST, R.; LOHR, M.; OLTHOFF, M. & CONZE, K.-J. unter Mitarbeit von ARTMEYER, CH.; HAESE, U. & HENNIGS, S. 2016: **Die Libellen Nordrhein-Westfalens**. – LWL Museum für Naturkunde, Münster: 448 S. – ISBN 978-3-940726-45-2.

Unter der Federführung des Museums des Landschaftsverbandes Westfalen-Lippe (LWL) unter Nutzung von 20 Jahren faunistischer Kleinarbeit des Arbeitskreises „Libellen NRW“ und in Zusammenarbeit mit 400 ehrenamtlichen Naturforscherinnen und Naturforschern erschien 2016 mit „Die Libellen Nordrhein-Westfalens“ ein bemerkenswertes faunistisches Werk. An der Finanzierung des Drucks des Buches waren weiterhin der Verein zur Förderung des LWL-Museums für Naturkunde e.V., die NRW-Stiftung sowie die HIT-Stiftung beteiligt. Der Landschaftsverband Westfalen-Lippe stellt darüber hinaus eine Online-Version des Atlases mit digitalen Karten zur Verfügung (<http://www.libellenatlas-nrw.lwl.org/>).

In einführenden Kapiteln erhält der interessierte Leser zunächst grundlegende Informationen über Libellen und ihre Lebensräume: Zur Evolution der Libellen – fossile Funde aus Nordrhein-Westfalen, Einführung in die Biologie der Libellen, Großlandschaften und Naturräume in Nordrhein-Westfalen und Klima. Ein historisches Kapitel, beginnend mit Edmond de Selys-Longchamps und Hermann August Hagen führt in die Erforschung der Libellen in diesem Gebiet ein und zeigt kurz den heutigen Stand auf. Nach dem Abschnitt Material und Methoden folgt der über 300 Seiten umfassende Teil, der 73 Libellenarten vorstellt.

Jede Art wird in der Artmonografie mit Fotos der Imagines vorgestellt. Das Areal der Verbreitung und Verbreitungsgrenzen werden im Zusammenhang mit Nordrhein-Westfalen beschrieben. Eine farbcodierte Übersichtskarte von Europa visualisiert dies.

Die Situation in der Fläche von NWR wird mittels Verbreitungskarten auf der Basis von Messtischquadranten dargestellt. Für die vertikale Verbreitung finden sich Höhenverbreitungsdiagramme und für die zeitliche Phänogramme. Im Abschnitt Lebensräume in Nordrhein-Westfalen werden die Habitatansprüche, insbesondere wichtige Parameter der Brutgewässer dargestellt. Diese Angaben sind mit zahlreichen, aussagekräftigen Fotos illustriert.

Abschließend werden die Gefährdung und Schutz jeder Art diskutiert.

Das Buch ist eine wichtige Grundlage für die naturkundliche Landesforschung. Für Ökologen, Biologen, Studierende und interessierte Laien wird dieser Atlas für lange Zeit ein wichtiges Nachschlagewerk sein. Das Buch ist allgemeinverständlich geschrieben und sehr ansprechend gestaltet. Es enthält viele wertvolle Informationen und gelungene Fotos dieser schönen Insektenarten und ist somit bestens geeignet, alle Menschen für die heimischen Libellen zu begeistern.

E. GROLL

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