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Замѣтки объ европейскихъ видахъ рода *Aphelinus* Dalm., паразитирующихъ на тляхъ (Hymenoptera, Chalcidodea).

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Notes on European species of the genus *Aphelinus* Dalm. (Hymenoptera, Chalcidodea), parasitic upon the plant-lice.

Этотъ родъ въ средней и сѣверной Европѣ представленъ, главнымъ образомъ, тѣми своими видами, которые паразитируютъ на счетъ тлей. Эти виды отличаются отъ видовъ этого же рода, паразитирующихъ на червцахъ, волосистыми глазами, въ то время какъ у послѣднихъ глаза бываютъ голые. Количество видовъ, живущихъ у насъ на тляхъ, довольно велико. Несомнѣнно, оно значительно превышаетъ то количество видовъ, которое извѣстно автору. Виды рода *Aphelinus* Dalm. являются первичными паразитами тлей, причѣмъ самка паразита откладываетъ свое яичко въ самыхъ молодыхъ тлей. Яичко это удлиненное, слегка согнутое въ срединѣ, напоминающее яички прочихъ представителей *Chalcidodea*. Личинка *Aphelinus* почти шарообразна, съ небольшою головою и короткимъ хвостовымъ придаткомъ. Приблизительно черезъ недѣлю послѣ откладки яичка тля умираетъ и начинаетъ темнѣть, приобрѣтая совершенно сизый цвѣтъ. Это потемнѣніе бываетъ замѣтнымъ на свѣтло-окрашенныхъ тляхъ. Все развитіе насѣкомаго заканчивается въ теченіе іюля мѣсяца, дней въ 18—22. Позже, съ паденіемъ температуры, продолжительность развитія насѣкомаго возрастаетъ, достигая въ случаѣ съ зимующими стадіями нѣсколькихъ мѣсяцевъ. Зимуетъ насѣкомое, какъ я въ этомъ убѣдился въ случаѣ съ *Aphelinus subflavescens* Westw., въ стадіи куколки, внутри преимущественно половыхъ формъ тлей.

Сравнительно съ браконидами, паразитирующими на тляхъ, виды рода *Aphelinus* Dalm. встрѣчаются довольно рѣдко и еще рѣже обуславливаютъ подавленіе размноженія тлей-хозяевъ. Наиболь-

шее значеніе въ качествѣ неблагопріятнаго фактора въ жизни тлей эти насѣкомыя приобрѣтаютъ для тѣхъ тлей-хозяевъ, которыя живутъ въ закрытыхъ помѣщеніяхъ, т. е. въ галлахъ, въ свернутыхъ листьяхъ или за влагалищами листьевъ.

Ниже я привожу синоптическую таблицу представителей этого рода, имѣющихъ волосистые глаза. Въ этой таблицѣ помѣщены кромѣ нѣсколькихъ описываемыхъ мною видовъ еще и нѣкоторые виды *A. Förster'a*, какъ *flaviventris*, *dubia*, *brachyptera* и *daucicola*, названные имъ, но не описанные. Всѣ эти виды хранятся въ Королевскомъ Придворномъ Музеѣ въ Вѣнѣ.

Genus *Aphelinus* Dalm.

Synoptic table of European species with hairy eyes.

- | | |
|---|----|
| 1. Body totally yellow except eyes and stemmadium | 2 |
| Thorax black or dark-brown | 3 |
| 2. Eyes, ocelli and stemmadium black or brown. Male middle tibiae fuscous at apex <i>flavus</i> Nees. | |
| (Synon.: <i>albidus</i> Westw.,
<i>annulipes</i> (Hal.) Walk.,
<i>livens</i> (Hal.) Walk.) | |
| Eyes pale-pink or pale-violaceous; ocelli dark; stemmadium yellow. Male middle tibiae totally yellow. <i>subflavescens</i> Westw. | |
| [Obs. Reared 1912 at Poltava Exp. Stat. from <i>Chaetophorus capreae</i> Koch.]. | |
| 3. Abdomen yellow or brown-yellow, sometimes yellow below and brown above | 4 |
| Abdomen more or less black; sometimes yellowish at base and apex | 14 |
| 4. Face beneath or even totally yellow | 5 |
| Face brown, sometimes brown-yellow near the mouth border | 8 |
| 5. Face yellow in the middle only. Antennae and hind femora yellow. Anterior coxae, middle femora and middle and hind tibiae in the middle fuscous <i>polycyclus</i> Först. | |
| Anterior coxae yellow | 6 |
| 6. Legs totally yellow. Vertex yellow <i>flaviceps</i> Först. | |
| Middle and hind coxae black | 7 |
| 7. Face brown-yellow. Scape of antennae brownish. Middle femora black in the middle; middle tibiae black at the base <i>fusciscapus</i> Först. | |
| Face bright-yellow. Hind tibiae brown at base | |
| <i>abdominalis</i> Dalm. | |

8. Legs totally yellow *flaviventris* Först. 9
 Legs marked with black 9
9. Hind tibiae totally yellow 10
 Hind tibiae fuscous at base 11
10. Middle tibiae totally yellow
brevicalcar Thoms. (*abdominalis* Nees).
 Middle tibiae brownish at base *affinis* Först.
11. All femora and tibiae fuscous in the middle. Body brownish 12
 Fore or hind femora totally yellow 13
12. Abdomen brown yellow. Wings normal *dubia* Först.
 [Obs. 1 ♀ reared from *Macrosiphum convolvuli* Kalt., 1911 at Poltava Exp. Stat.]
 Abdomen brown. Wings short, reaching the middle of the abdomen only *brachyptera* Först.
13. Fore femora and tibiae and hind femora at base yellow. Face yellow near the mouth border *facialis* Först.
 Fore and middle femora fuscous in the middle. Face brown *asychis* Walk.
 [Obs. Reared from *Brachycolus noxius* Mordw., 1911 at Poltava Exp. Stat. On the page 8 of the Bull. 2, Ent. Div. Polt. Exp. Stat. 1911, this species is identified wrong as *affinis* Först.]
14. Hind femora yellow 15
 Hind femora fuscous in the middle. Body black; legs black; fore tibiae and tarsi yellow; flagellum yellow
daucicola Först.
15. Middle femora and tibiae black in the middle
chaonia Walk.
 [Obs. Common parasite of *Aphis evonymi* F. Reared 1912 from *Aphis crataegi* Koch. at Poltava Exp. Stat.]
- Femora yellow 16
16. Pedicel almost twice longer than 1-st and 2-nd funicle joints combined. Male pedicel shorter than 3-d funicle joint, which is a little longer than $1\frac{1}{2}$ the length of the club. Hind tibiae grayish *toxopteraphidis*, sp. nov.
 Not so shaped 17
17. Hind tibiae fuscous or grayish 18
 Hind tibiae yellow 20
18. Female 3-d funicle joint and club subcylindrical and subequal in length *tibialis* Nees.
 3-d funicle joint in the female subquadrate, about $\frac{1}{3}$ the length of the club 19

19. Brown-black. Hind tibiae pale-grayish. 3-d funicle joint about $\frac{1}{4}$ — $\frac{1}{3}$ the length of the club, which is stout and hairy. Fore tibiae sometimes grayish on the outer side. Scape of antennae dusky *varipes* Först.
Black. Hind tibiae fuscous in the middle. Scape of female antennae pallid, that of male dusky *hordei*, sp. nov.
20. Pedicel twice as long as 3-d funicle joint, which is more wide than long. Fore coxae fuscous
atriplicis, sp. nov.
- Pedicel less than twice as long as 3-d funicle joint, which is longer than wide. Fore coxae of the female sometimes pallid *flavipes*, sp. nov.

Aphelinus toxopteraphidis, sp. n.

♀. Length 0,85 mm. Flagellum shorter than the face. Pedicel longer than 1-st and 2-nd funicle joints combined, $1\frac{1}{2}$ times as long as 3-d funicle joint. 3-d funicle joint is about $\frac{1}{4}$ the length of the club, which is thrice as long as broad.

Black. Legs, including coxae, and antennae pale-yellow. Scape, pedicel above, middle tibiae at apex, hind tibiae and tarsi gray.

♂. Length 0,7 mm. Pedicel as long as 3-d funicle joint, which is about $\frac{1}{2}$ the length of the club. Antennae orange-yellow, scape and pedicel grayish. Fore coxae fuscous.

3 ♀♀ and 6 ♂♂ reared from *Toxoptera graminum* Rond., 1911 at Poltava Exp. Stat.

Aphelinus hordei, sp. n.

♀. Length 0,9 mm. Near to *toxopteraphidis*. Pedicel of antennae a little less than twice as long as two following funicle joints united. 3-d funicle joint subquadrate, about as long as 1-st and 2-nd united, and about $\frac{1}{3}$ the length of the club, which is $2\frac{1}{2}$ times as long as broad.

Black. Antennae, all femora and fore tibiae pale-yellow, hind and sometimes middle tibiae fuscous or grayish in the middle. Tarsi pale-yellow, except ultimate tarsal joints.

♂. Length 0,75 mm. Pedicel of antennae about twice as long as 1-st and 2-nd funicle joints combined and somewhat less than twice as long as 3-d funicle joint, which is about $\frac{1}{3}$ the length of the club. Club thick, about twice as long as broad. Scape of antennae grayish. In other respect similar to the female.

7 ♀♀ and 3 ♂♂ reared from *Brachycolus noxius* Mordw. at Poltava 1911.

Aphelinus atriplicis, sp. n.

♀. Length 1 mm. Flagellum shorter than the face. Pedicel twice as long as two first funicle joints combined, and twice as long as 3-d funicle joint. 3-d funicle joint broader than long, shorter than $\frac{1}{3}$ the length of the club. Club ovate, a little more than twice as long as broad.

Black. Abdomen brownish at base and apex. Coxae fuscous. Antennae, femora, tibiae and tarsi pale-yellow.

♂. Very similar to the female. Pedicel a little longer than two first funicle joints combined and as long as 3-d funicle joint, which is a little longer than $\frac{1}{3}$ the length of the club; the latter is thrice as long as broad. Antennae hairy.

2 ♂♂ and 11 ♀♀ reared 1911 from *Aphis chenopodii* Schrank (*atriplicis* L.) at Poltava Exp. Stat.

Aphelinus flavipes, sp. n.

♀. Length 9 mm. Pedicel of antennae a little longer than 1-st and 2-nd funicle joints combined and a little longer than 3-d funicle joint, which is somewhat longer than 1-st and 2-nd funicle joints combined and a little longer than $\frac{1}{3}$ the length of the club. 3-d funicle joint longer than wide. Club a little less than three times as long as broad.

Black. Base of abdomen yellow. Antennae, legs, except middle and hind coxae, yellow. Fore coxae pale-grayish, sometimes pale-yellow.

♂. Length 0,8 mm. In the shape of its antennae similar to the female. Scape and pedicel above grayish. Base of abdomen fuscous. Anterior coxae fuscous.

Many ♀♀ and several ♂♂ reared from *Toxoptera graminum* Rond. at Poltava Exp. Stat. 1911.