NOTES ON CERTAIN NEW GENERA AND SPECIES OF PTEROMALIDAE
(HYMENOPTERA, CHALCIDOIDEA, PTEROMALIDAE) IDENTIFIED WITHIN
PLAIUL FAGULUI NATURE RESERVE

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Abstract. As result of performed studies in various types of biotopes on the reserve territory and adjacent areas there were identified
118 species of pteromalid (Hymenoptera, Pteromalidae) belonging to 9 subfamilies and 64 genera, of which 3 genera (Rhicnocoelia
Graham, Merismus Walker, Callypryna Graham), 10 species (Rhicnocoelia impar Walker, Merismus splendens Graham,
Gastrancistrus acutus Walker, Gastrancistrus camppressus Walker, Trichomalopsis laticeps Graham, Trichomalopsis acuminatus
Graham, Trichomalus rufinus Walker, Calliprymna bisetosa Graham, Pteromalus papaveris Forster, Pteromalus chlorogaster
Thomson) are new for the fauna of the Republic of Moldova.

Keywords: Hymenoptera, Pteromalidae, “Plaiul Fagului” natural Reserve, new genera and species, Republic of Moldova.

INTRODUCTION
Scientific Reserve Plaiul fagului was organized in March 1992, based on hunting household Rădenii Vechi. It is
located in the north-eastern part of the Central Plateau of R. Moldova and occupies an area of 5558.7 ha, including
5375.5 ha of forest. Within the reserve is highly fragmented landscape, sometimes with mountain features, the altitudes
ranging between 410 and 140 m above sea level. Rădeni rivulet with cascading lakes divide the reserve in two equal
massives. The vegetation includes about 680 vascular plants, of which 27 plants species are included in the Red Book of
Moldova. Plant associations are represented by woods of central European type, where natural stands of beech, oak,
linden, hornbeam, pedunculate oak with beech reaching the age of 150 years are preserved. The animal world is
represented by 211 species, 142 bird, 49 mammal, 8 reptiles, 12 amphibian and 65 species of soil invertebrates. In
prospect is expected the biodiversity conservation insurance and reserve regime; developing of measures and ecological
reconstruction of stands in relation to growth conditions; restoration of native stands; implementation of measures to
contribute to natural regeneration from seeds; regulation of animal number in relation to the material basis; increasing
of environmental education efficiency.

MATERIAL AND METHODS
All the individuals were collected using the entomological net, between 2003 and 2013, mostly by the author. The
majority of identified species were collected from different biotopes situated in the reserve’s territory.

RESULTS AND DISCUSSION
Family PTEROMALIDAE
Subfamily Miscogarterinae
Genus Rhicnocoelia Graham, 1956
Rhicnocoelia impar Walker, 1836
Material examined: Reserve “Plaiul Fagului”, Rădenii Vechi (District Ungheni): 1 ♀ collected 10.VII. 2007,
meadow; (Manic leg.).
Geographical distribution: Great Britain, Ireland, Whole Europe [4,5] (BOUCEK & RASPLUS, 1991;
DZHANOKMEN, 1987).
Biology: unknown, but probably parasites of Diptera [4,5] (BOUCEK & RASPLUS, 1991; DZHANOKMEN,
1987).
The genus and the species are new for fauna of the Republic of Moldova. [2,3,6,7] (BOUCEK 1961, 1966;
**Genus Merismus, 1833**

*Merismus splendens* Graham, 1969  
**Material examined:** Reserve “Plaiul Fagului”, Rădenii Vechi (District Ungheni): 1 ♀ collected 5.VII. 2006, orchard; (Manic leg.).  
**Biology:** it is a parasitoid of *Agromyza albipennis* Mg. (Agromyzidae) [5] (DZHANOKMEN, 1987)  

**Genus Gastrancistrus Westwood, 1833**

*Gastrancistrus acutus* Walker, 1834  
**Material examined:** Reserve “Plaiul Fagului”: 1 ♀, 14.VI.2012, glade; (Manic leg.).  
**Geographical distribution:** Sweden, Great Britain [5] (DZHANOKMEN, 1987)  
**Biology:** parasite of cecidomyiids in their galls on various plants. [4,5] (BOUCEK & RASPLUS, 1991; DZHANOKMEN, 1987)  

*Gastrancistrus campressus* Walker, 1834  
**Material examined:** Rădenii Vechi (District Ungheni): 1 ♀, 11.VII.2008, orchard; (Manic leg.).  
**Geographical distribution:** Sweden, Great Britain [5] (DZHANOKMEN, 1987)  
**Biology:** unknown. [5] (DZHANOKMEN, 1987)  

**Subfamily Pteromalinae**

**Genus Trichomalopsis Crawford, 1913**

*Trichomalopsis laticeps* Graham, 1969  
**Material examined:** Reserve “Plaiul Fagului”: 1 ♀, 12.VIII.2003, skirt of a forest; (Manic leg.).  
**Geographical distribution:** Great Britain [5] (DZHANOKMEN, 1987)  
**Biology:** unknown, but probably parasitic in pupae, mainly Lepidoptera [4,5] (BOUCEK & RASPLUS, 1991; DZHANOKMEN, 1987).  

*Trichomalopsis acuminatus* Graham, 1969  
**Material examined:** Rădenii Vechi(District Ungheni): 1 ♀, 4.VII.2013, orchard; (Manic leg.).  
**Geographical distribution:** Sweden, Ireland [5] (DZHANOKMEN, 1987)  
**Biology:** unknown, but probably parasitic in pupae, mainly Lepidoptera [4,5] (BOUCEK & RASPLUS, 1991; DZHANOKMEN, 1987).  

**Genus Trichomalus Thomson, 1878**

*Trichomalus rufinus* Walker, 1835  
**Material examined:** Reserve “Plaiul Fagului”: 2 ♀, 14.VI.2012, glade; (Manic leg.).  
**Geographical distribution:** Austria, Belgium, Bosnia Herzegovina, Canary Islands, Czech Republic, France, Germany, Greece, Hungary, Ireland, Lithuania, Montenegro, Norway, Romania, Slovakia, Spain, Sweden, Turkey, Ukraine, United Kingdom [1,5] (ANDRIESCU & MITROIU, 2004; DZHANOKMEN, 1987)  
**Biology:** primary parasitoid of Apionidae (Coleoptera). [1,5] (ANDRIESCU & MITROIU, 2004; DZHANOKMEN, 1987).  

**Genus Calliprymna Graham, 1966**

*Calliprymna bisetosa* Graham, 1966  
**Material examined:** Reserve “Plaiul Fagului”, Rădenii Vechi (District Ungheni): 1 ♀ collected 10.VIII. 2011, skirt of a forest; (Manic leg.).  
**Biology:** unknown. [4,5] (BOUCEK & RASPLUS, 1991; DZHANOKMEN, 1987).

Genus Pteromalus Swederus, 1795

Pteromalus papaveris Forster, 1841

Material examined: Reserve “Plaiul Fagului”, Rădenii Vechi (District Ungheni): 1♀ collected 16.VII. 2006, glade; (Manic leg.).


Pteromalus chlorogaster Thomson, 1878

Material examined: Reserve “Plaiul Fagului”, Rădenii Vechi (District Ungheni): 1♀ collected 18.VI. 2005, orchard; (Manic leg.).


CONCLUSIONS

After identifying that 9 species (Rhicnocoelia impar Walker, Merismus splendens Graham, Gastrancistrus acutus Walker, Gastrancistrus campressus Walker, Trichomalopsis laticeps Graham, Trichomalopsis rufinus Walker, Callipyrmna bistosota Graham, Pteromalus papaveris Forster, Pteromalus chlorogaster Thomson) and 3 genres (Rhicnocoelia Graham, Merismus Walker, Callpyrmna Graham) new for fauna of Republic of Moldova, number of known species and genres of fauna Natural Reserve Plaiul Fagului and adjacent areas increases from 109 to 118 species and respectively from 61 to 64 genres.

Thus our research contributes to a better acquaintance of diversity and area of spreading of the Pteromalidae in fauna of Republic of Moldova.


REFERENCES


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