

Short communication

The first report of three genera and fifteen species of Tephritidae (Diptera) from Iran

E. Gilasian^{1&*} and B. Merz²

1. Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection, P.O. Box 1454, Tehran 19395, Iran, 2. Muséum d'Histoire Naturelle, C.P. 6434, CH-1211 Genève, Switzerland, E-mail: bernhard.merz@mhn.ville-ge.ch

*Corresponding author, E-mail: gilasian@ppdri.ac.ir

چکیده

طی بررسی نمونه‌های موجود در موزه‌ی حشرات هایک میرزایانس، پانزده گونه مگس متعلق به نه جنس و شش قبیله از خانواده‌ی Tephritidae شناسایی گردید که همه‌ی گونه‌ها و سه جنس *Euleia* Walker، *Hypenidium* Loew و *Metasfenisca* Hendel برای اولین بار از ایران گزارش می‌شوند.

The Tephritidae (= Trypetidae, Trupaneidae, Euribiidae) is a large family of acalyptate Diptera with over 4300 species known worldwide. Most species are phytophagous and have prominently patterned wings (White, 1988). So they are economically important because of the damage they may cause in fruit plantations (Merz, 2001). Other species are important agents in biological control programs against weeds (White & Elson-Harris, 1992).

This family is recognized by the following characters: medium or small sized flies; vertical plate usually does not reach midpoint of frons and carries one or more orbital bristles; antennae with glabrous or plumose arista; wings usually with a pattern consisting of brown strips and spots, costal vein with two interruptions, one before humeral vein and one at place of ending of subcostal vein; abdomen in males with five and in females with six segments visible externally (Rikhter, 1989).

In a study on tephritid specimens in Hayk Mirzayans Insect Museum (HMIM), fifteen species belonging to nine genera were identified. All species and those genera marked with an asterisk are new records for Iran. The identified species and their localities are as follows:

Subfamily: Trypetinae

Tribe: Carpomyini

- *Rhagoletis flavigenualis* Hering

Material examined: Park-e Melli-e Golestan: Almeh, 1700 m., 25.VII.2001, (Gilasian & Ghayourfar).

Tribe: Trypetini

- *Euleia* heraclei* (Linnaeus)

Material examined: Khuzestan: Dezful, Safiabab, 80 m., 12.XI.1995, (Mirzayans & Badii); Lorestan: Mallavi, 610 m., 5.V.1994, (Sarafrazi & Hashemi).

Subfamily: Tephritinae

Tribe: Myopitini

- *Urophora aprica* (Fallen)

Material examined: Park-e Melli-e Golestan: Almel, 1590 m., 6.V.1999, (Mofidi, Barari & Manzari).

- *Urophora melanocera* (Hering)

Material examined: Esfahan: Semirom, Siwar, 2150 m., 9.VIII.1978, (Pazuki & Borumand); Tehran: Evin, 12.VIII.1974, light trap.

- *Urophora Phaeocera* (Hering)

Material examined: Chaharmahal & Bakhtiari: Farsan, 2400 m., 16.VIII.1976, (Borumand & Pazuki); Tehran: Evin, 24.Vi.1973, light trap.

- *Urophora tenuior* Hendel

Material examined: Khorasan-e Razavi: Sarakhs, 21.V.1943, (Ayatollahi).

Tribe: Noetini

- *Hypenidium* roborowskii* (Becker)

Material examined: Tehran: Evin, 23.VIII.1974, light trap.

Tribe: Terellini

- *Orellia falcata* (Scopoli)

Material examined: Azarbaijan-e Sharghi: Sabalan, Gotur-Su, 2300 m., 28.VI.1985, (Mirzayans & Pazuki).

- *Orellia stictica* (Gmelin)

Material examined: Park-e Melli-e Golestan: Sulgerd, 1100 m., 4.IX.2000, (Gilasian & Ghayourfar).

- *Terellia nigripalpis* Hendel

Material examined: Markazi: Ashtian, Ahu, 2000 m., 29.VII.1997, (Barari & Mofidi).

Tribe: Tephritini

- *Goniurellia longicauda* Freidberg

Material examined: Esfahan: Semirom, Siwar, 2150 m., 9.VIII.1978, (Pāzuki & Borumand); Fars: Firouzabad, Muk, 1800 m., 8.V.1985, (Mirzayans & Hashemi); Ilam: Ghallajeh, 1810 m., 18.VIII.1996, (Parchami, Barari & Vazric Nazari); Kerman: Baft, Ghanat-e Marwan, 2800 m., 22.V.1977, (Safavi, Pazuki & Abai).

- *Metasfenisca* negeviana* (Freidberg)

Material examined: Hormozgan: 20 Km. E. Senderk, 300 m., 11.V.1977, (Safavi & Pazuki).

- *Tephritis bardanae* (Schrank)

Material examined: Tehran: Damāvand, 2070 m., 14.VII.1976, (Lavallee).

- *Tephritis maccus* Hering

Material examined: Tehran: Evin, 23.VIII.1973, light trap.

- *Tephritis urelliosomima* Korneyev & Dirlbek

Material examined: Fars: Bamu, 1700 m., 24.IX.1996, (Parchami, Moghaddam & Barari); Tehran: Evin, 16.V.1996, light trap.

References

- Merz, B.** (2001) Faunistics of the Tephritidae (Diptera) of the Iberian Peninsula and the Balears. *Bulletin de la Societe Entomologique Suisse* 74, 91-98.
- Rikhter, V. A.** (1989) Family Tephritidae. pp. 212-276 in Bei-Beinko, G. Y. (Ed.). *Keys to the insects of the European part of the USSR*. Vol. 5, 1502 pp. Academy of Science.

White, I. M. (1988) *Tephritid flies: handbooks for the identification of British insects*. Vol. 10, part 5a, 134 pp. Royal Entomological Society of London.

White, I. M. & Elson-Harris, M. M. (1992) *Fruit flies of economic significance: their identification and bionomics*. 601 pp. CAB international.

Received: 17 January 2006

Accepted: 1 August 2006