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Eriophyoidea (Acari: Trombidiformes) of the Lorestan Province and first record of *Aceria querci* (Garnam, 1883) outside of the USA

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The superfamily Eriophyoidea is one of the main taxa of plant feeder mites found on different host plants globally. Eriophyoid mites cause significant loss in crop production (Lindquist and Oldfield 1996); they may cause serious damage and malformation in host plants (Druciarek *et al*. 2014; de Lillo *et al*. 2018). Despite the importance of these mites as pests, knowledge of their distribution in Lorestan Province is largely insufficient.

To study the fauna of eriophyoid mites of different regions of Lorestan Province, host plants were collected during 2016–2018. Eriophyoid mites were recovered from the plant samples by means of a modified washing method developed by Monfreda *et al.* (2007). The mites were directly slide mounted in Hoyer's medium (Walter and Krantz 2009) without any previous clarification.

In this study, twenty two species from twelve genera and two families were collected and identified. Among them, 11 species were recorded for the first time from Lorestan Province and *Aceria querci* (Garman, 1883) was recorded for the first time outside the USA. Host plant names are in accordance with *"The Plant List on-line database"* (2013). All specimens are deposited in the Acarological Collection, Department of Plant Protection, Faculty of Agriculture of Lorestan and Azarbaijan Shahid Madani Universities, Iran.

The list of the collected species is reported below.

Family Eriophyidae Nalepa
Subfamily Cecidophyinae Keifer
Tribe Colomerini Newkirk & Keifer

Colomerus vitis (Pagenstecher, 1857)

Material examined – A large number of females and males were collected on leaves of grapevine (*Vitis vinifera* L.) (Vitaceaea) causing the leaf undersurface erinea. Twenty-five (25) females and seven males, Kamalvand village, Khorramabad, 2 July 2017; 28 females and eleven males, Khayan

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village, Borujerd city, 14 August 2018; 36 females and 12 males, Kheyrabad Khorramabad, 10 August 2018; Lorestan Province, Iran.

Remarks – Despite the widespread distribution of this mite species in Iran (Hajizadeh *et al*. 2002; Khanjani and Haddad Irani-Nejad 2006; Ramazani *et al*. 2006; Adeli *et al*. 2013; Javadi Khederi and Khanjani 2014), this is the first record of this species from Lorestan Province.

Subfamily Eriophyinae Nalepa
Tribe Eriophyini Nalepa

Eriophyes pyri (Pagenstecher, 1857)

Material examined – A large number of females and males were collected on leaves of pear trees (*Pyrus communis* L.: Rosaceae). Twenty-eight (28) females and nine males, Shurab district, Khorramabad, 9 August 2017; 20 females and five males, Khayan village, Borujerd County, 11 July 2018; 30 females and two males, Goldasht village, Borujerd County, 6 August 2018; 38 females and 22 males, Kheyrabad Khorramabad, 4 July 2018; Aleshtar city, 17 September, 2017; Lorestan Province, Iran.

Remarks – This species has been reported from different regions of Iran (Khanjani and Haddad Irani-Nejad 2006; Babaei *et al*. 2010; Lotfollahi *et al*. 2014b). This species was previously reported from Lorestan Province (Delfan *et al*. 2014).

Tribe Aceriini Amrine & Stancy

Aceria granati (Canestrini & Massalongo, 1894)

Material examined – This mite was collected on leaves of pomegranate trees (*Punica granatum* L.) (Lythraceae). The activity of this mite species lead to roll the edge of pomegranate leaves. 16 females and two males, Sarenjeh-ye Zivdar village, Poldokhtar County, 19 July 2017; 16 females and nine males, Tange-siab, Kuhdasht city, 15 July 2017; six females and one male, Sepid Dasht, 11 September 2017; 12 females and four males, Bisheh Waterfall, 6 July 2018; 34 females and 10 males, Bizhanvand village, Dore Chegeni city, 19 September 2018; Lorestan Province, Iran.

Remarks – Previous to our study, this species has been reported from Guilan (Hajizadeh *et al*. 2002) and Fars (Doryanizadeh *et al*. 2013) Provinces of Iran. This is a new record of this species from Lorestan Province.

Aceria oleae (Nalepa, 1900)

Material examined – This species was collected on leaves of olive trees (*Olea europaea* L.) (Oleaceae). Eight females and two males, Vashian village, Poldokhtar County, 18 July 2017; 16 females and seven males, Faculty of Agriculture, Lorestan University, 13 July 2018; Lorestan Province, Iran.

Remarks – Sepasgozarian (1973) for the first time reported this species from Iran. Later Hajizadeh and Hosseini (2004b) reported this species from Guilan Province and Doryanizadeh *et al*. (2013) reported this species from Fars Province. This is a new record of this species from Lorestan Province.

Aceria chenopodia Xue, Sadeghi & Hong, 2009

Material examined – This species was collected as vagrant on leaves of pigweed, *Chenopodium album* L. **(**Amaranthaceae). 11 females and four males, Aligudarz County, 2 July 2018; six females, Borujerd County, 12 August 2018; 10 females and two males Sarabe Doreh, 3 September 2017; Lorestan Province, Iran.

Remarks – This species was reported from Razavi Khorasan Province, Iran for the first time (Xue *et al*. 2009). Also, Lotfollahi *et al*. (2017) reported this species from East Azarbaijan, Iran. This is a new record of this species from Lorestan Province.

Aceria querci (Garman, 1883)

Distribution – USA (Garman 1883).

Material examined – Twenty-seven (27) females and five males collected from the leaves on Persian oak trees, *Quercus brantii* Lindl. (Fagaceae), Faculty of Agriculture, Lorestan University, 14 June 2018; Lorestan Province, Iran. This mite caused brown erinea on the underside surface of host plant leaves.

Remarks – Until now, *A. querci* was only reported from the USA on bur oak (*Quercus macrocarpa* Michx.) (Garman 1883; Briones and McDaniel, 1976). The characteristics and habitus of the Iranian specimens are completely in consistent with what Briones and McDaniel (1976) reported.

Aceria angustifoliae Denizhan, Monfreda, de Lillo & Çobanoğlu, 2008

Material examined – This species was collected on leaves of Russian olive, *Elaeagnus angustifolia* L. (Elaeagnaceae). This mite caused deformation on leaves especially near to the median veins. Thirty-eight (38) females and six males, Houzian dam, Aligudarz County, 13 September 2018; 22 females and 10 males, Kamalvand village, Khorramabad, 6 September 2018; Lorestan Province, Iran.

Remarks – Previous to our study, this species was reported from Birjand County, Southern Khorasan of Iran (Honarmand *et al*. 2019). This is a new record of this species from Lorestan Province.

Aceria tristriata (Nalepa, 1890)

Material examined – This species was collected on leaves of walnut trees, *Juglans regia* L. (Juglandaceae). This mite caused galls on walnut leaves especially near to the median veins. We collected large numbers of this species in Khorramabad, Aleshtar, Borujerd and Nourabad County, Lorestan Province, Iran.

Remarks – This species is widely distributed and has been reported from western regions of Iran (Khanjani and Haddad Irani-Nejad 2006). This species was previously reported from Lorestan Province (Delfan *et al*. 2014: Hayatolgheyb 2016).

Aceria cf. *tosichella* Keifer, 1969

Material examined – This species was collected as vagrant on leaves of *Setaria viridis* (L.) Beauv (Poaceae). Eight females and one male, Sabzevar Veysian, 26 August 2018; Lorestan Province, Iran.

Remarks – This species has been reported on *Setaria viridis* (L.) Beauv. (Poaceae) from Razavi Khorasan Province (Xue *et al*. 2011), also was reported from West Azarbaijan, Province (Mehri-Heyran *et al*. 2020). This species was previously reported from Lorestan Province occasionally on white mulberry, *Morus alba* L. (Moraceae) (Hayatolgheyb 2016).

Subfamily Phyllocoptinae Nalepa
Tribe Anthocoptini Amrine & Stasny

Tegolophus glycyglabri Lotfollahi, Hayatolgheyb & Jafari, 2017

Material examined – This species was collected as vagrant on leaves of liquorice, *Glycyrrhiza glabra* L. (Leguminosae). Twenty-three (23) females and five males, Faculty of Agriculture, Lorestan University, 11 July 2018; seven females and three males, Sabzevar Veysian, 2 Agust 2018; four females, Sepid Dasht, 12 September 2017; three females, Doroud and eight females and one male, Aligudarz County, 14 September 2018; Lorestan Province, Iran.

Remarks – This species was previously reported from Lorestan Province (Hayatolgheyb *et al*. 2017) of Iran.

Tegolophus hassani (Keifer, 1959)

Material examined – This species was collected on leaves of olive trees, *Olea europaea* L. (Oleaceae), especially on the lower part of the canopy. The activity of this species had led to deformation of olive leaves. Fifteen (15) females and two males, Faculty of Agriculture, Lorestan University, 13 July 2018; Lorestan Province, Iran.

Remarks – Prior to our study, this species has been reported Guilan (Hajizadeh and Hosseini 2004b) and Fars (Doryanizadeh *et al*. 2013) Provinces of Iran. This is a new record of this species from Lorestan Province.

Tegolophus califraxini (Keifer, 1936)

Material examined – This species was collected as vagrant on leaves of ash, *Fraxinus excelsior* L. (Oleaceae). Twelve (12) females and seven males, Faculty of Agriculture, Lorestan University, 2 September 2018; 20 females and three males, Aligudarz County, 14 September 2017; Lorestan Province, Iran.

Remarks – Prior to our study, this species has been reported East Azarbijan (Lotfollahi *et al*. 2014c) Province of Iran. This is a new record of this species from Lorestan Province.

Anthocoptes salicis (Nalepa, 1894)

Material examined – This species was collected with high density on leaves of *Salix* sp. (Salicaceae). The activity of this species had led to formation of reddish galls on leaves. 29 females and eight males, Darband Azna, Lorestan University, 9 August 2018; Lorestan Province, Iran.

Remarks – This species has been reported on *Salix babylonica* L. (Salicaceae) from Zanjan Province (Tarasi and Taghadosi 2005) and also reported on *Salix alba* L. (Salicaceae) from East Azarbaijan Province (Lotfollahi *et al*. 2014c), Iran. This is a new record of this species from Lorestan Province.

Calepitrimerus baileyi Keifer, 1938

Material examined – This species was collected as vagrant on leaves of apple trees, *Malus domestica* Borkh. (Rosaceae). The activity of this species in high densities leads to light rust or browning of the leaves. Twenty-eight (28) females and 13 males, Chaghalvandi, Khorramabad, 11 August 2017; six females and five males, Goldash Borujerd, 28 July 2018; 17 females and three males, Aleshtar and Nourabad, 12 September 2018; Lorestan Province, Iran.

Remarks – Prior to our study, this species has been reported from Hamadan (Malek-Mohammadi *et al*. 2002), West Azarbaijan (Lotfollahi *et al*. 2014b; Mehri-Heyran *et al*. 2020), and Guilan (Hajizadeh and Hosseini 2004a) Provinces of Iran. This species was previously reported from Lorestan Province (Hayatolgheyb 2016).

Notallus pestehae Lotfollahi, de Lillo & Haddad, 2014

Material examined – This species was collected as vagrant on leaves of pistachio tree, *Pistacia vera* L. (Anacardiaceae). Seventeen (17) females and five males, Faculty of Agriculture, Lorestan University, 9 August 2018; Lorestan Province, Iran.

Remarks – This species was reported from East Azarbaijan Province, Iran for the first time (Lotfollahi *et al*. 2014a). This is the first record of this species from Lorestan Province.

Notallus nerii Keifer, 1975

Material examined – This species was collected on leaves of oleander, *Nerium oleander* L. (Apocynaceae). Thirty-eight (38) females and 21 males, Khorramabad, 15 September 2018; 22 females and nine males, Faculty of Agriculture, Lorestan University, 8 August 2017; Lorestan Province, Iran.

Remarks – This species has been reported from Khuzestan Province, Iran (Ramazani *et al*. 2006). This species was previously reported from Lorestan Province (Delfan *et al*. 2014).

Aculus lorestaniensis Lotfollahi, Hayatolgheyb & Jafari, 2017

Material examined – This species was collected as vagrant on leaves of liquorice, *Glycyrrhiza glabra* L. (Fabaceae). Fourteen (14) females and four males, Faculty of Agriculture, Lorestan University, 11 July 2018; six females and four males, Sabzevar Veysian, 2 Agust 2018; Lorestan Province, Iran.

Remarks. This species was previously reported from Lorestan Province (Lotfollahi *et al*. 2017).

Aculus fockeui (Nalepa & Trouessart, 1891)

Material examined – This species was collected as vagrant on leaves of almond, *Prunus amygdalus* L. (Rosaceae). Six females and five males, Aligudarz County, 12 September 2018; seven females and two males, Sabzevar Veysian, 2 Agust 2018, Lorestan Province, Iran.

Remarks – This species has been reported from East Azarbaijan (Lotfollahi *et al*. 2014b) and Miandoab, West Azarbaijan, Iran (Mehri-Heyran *et al*. 2020). This species was previously reported from Lorestan Province (Delfan *et al*. 2014).

Aculops lycopersici Massee, 1937

Material examined – This species was collected as vagrant on leaves of tomato, *Solanum lycopersicum* L. (Solanaceae). High population density of this mite leads to brown rust on leaves. Nineteen (19) females and eight males, Doroud, 12 September 2018; 22 females and six males, Aligudarz County, 12 September 2018; Lorestan Province, Iran.

Remarks – This species is widely distributed and has been reported from different regions of Iran (Khanjani and Haddad Irani-Nejad 2006). This species was previously reported from Lorestan Province (Delfan *et al*. 2014).

Family Diptilomiopdiae Keifer
Subfamily Rhyncaphytoptinae Roivainen

Rhyncaphytoptus ficifoliae Keifer, 1940

Material examined – This species was collected with high population density as vagrant on underside surface of leaves of fig trees, *Ficus carica* L. (Moraceae). Twenty-two (22) females and 11 males, Faculty of Agriculture, Lorestan University, 18 September 2017; 18 females and nine males, Jolge Khalaj, Poldokhtar County, 22 September 2017; 28 females and 10 males, Sepid Dasht, 21 September 2018; Lorestan Province, Iran.

Remarks – This species has been reported from Khuzestan (Ramazani *et al*. 2006) and Fars (Daneshnia and Akrami 2013) Provinces of Iran. This species was previously reported from Lorestan Province (Delfan *et al*. 2014).

Rhinophytoptus nemalobos Lotfollahi & de Lillo, 2014

Material examined – This species was collected as vagrant on leaves of sour cherry tree, *Prunus cerasus* L. (Rosaceae). Seven females and three males, Aligudarz County, 12 September 2018; Lorestan Province, Iran.

Remarks – This species has been reported for the first time from East Azarbaijan Province, Iran (Lotfollahi *et al*. 2014b), also was reported from West Azarbaijan Province (Mehri-Heyran *et al*. 2020). This is a new record of this species from Lorestan Province.

Diptacus gigantorhynchus (Nalepa, 1892)

Material examined – This species was collected as vagrant on leaves of sour cherry tree, *Prunus cerasus* L. (Rosaceae). Six females, Aligudarz County, 12 September 2018; Lorestan Province, Iran.

Remarks – This species has been reported from Razavi Khorasan (Sadeghi Namaghi 2010), Guilan (Hajizadeh and Hosseini 2004a) and West Azarbaijan (Mehri-Heyran *et al*. 2020) Provinces, Iran. This is a new record of this species from Lorestan Province.

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