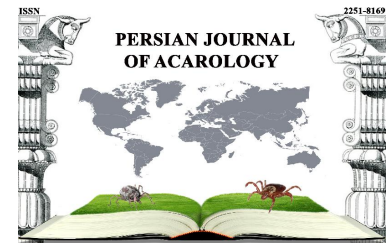




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## Correspondence

### First record of *Petrobia (Petrobia) pseudotetranychina* (Trombidiformes: Tetranychidae) in Asia, with two new host plants for Tetranychidae from Iran

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Genus *Petrobia* Murray, 1877 belongs to the family Tetranychidae, subfamily Bryobiinae Berlese and tribe Petrobiini Reck, 1952. *Petrobia* comprises three subgenera: *Mesotetranychus* Reck, 1948, *Petrobia* Murray, 1877 and *Tetranychina* Wainstein, 1960 (Mahdavi *et al.* 2018). By the year 2019, 80 species belonging to the family Tetranychidae have been recorded from Iran, among them four species including *P. brevipes* Reck & Bagdasarian, 1949; *P. hordei* Khanjani, Khanjani & Seeman, 2016; *P. latens* (Müller, 1776) and *P. norbakhshi* Khanjani, Khanjani & Seeman, 2016 belong to *Petrobia (Petrobia)* (Migeon and Dorkeld 2019). In this paper, we report the first record of *P. (P.) pseudotetranychina* Auger & Flechtmann, 2009 (Trombidiformes: Tetranychidae) from Asia collected on *Salsola* sp. (Amaranthaceae), which is also the second report of this species in the world. Moreover, this paper introduces two new host plants (*Capparis spinosa* Linnaeus and *Cydonia oblonga* Miller) for tetranychid mites from Iran. *Capparis spinosa* is also the first record for the world. To collect mite species, leaves and sheaths of *Salsola* sp. were collected in bags and taken to the laboratory. Mites were removed from infested plants by dipping-washing-filtering method (Boller 1984). This solution was filtered through a sieve (400 meshes) and then mites were washed with ethanol 70% into a Petri dish. They were mounted in Hoyer's medium. Specimens were examined using an Olympus BX 43 phase-contrast compound microscope.

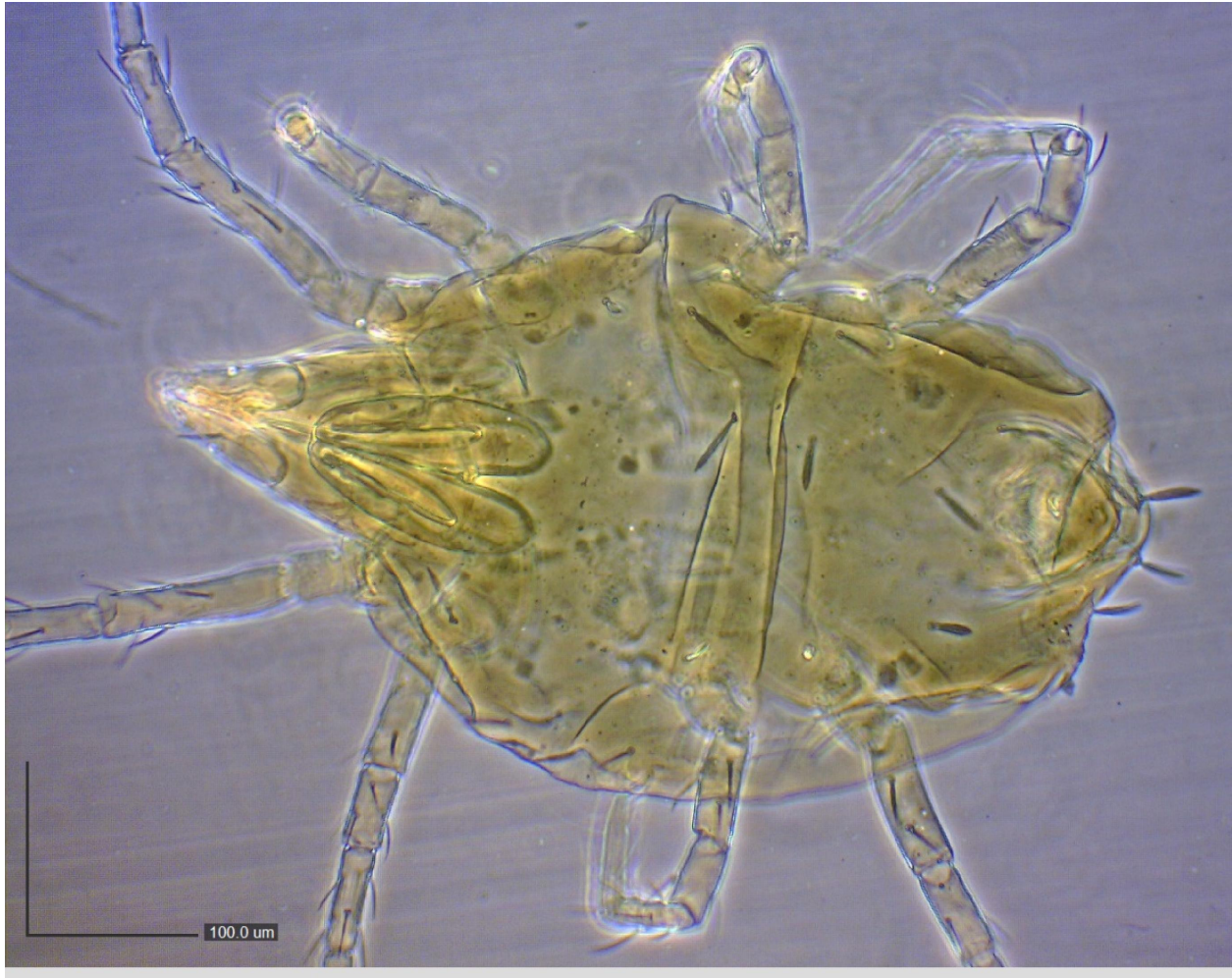
#### *Petrobia (Petrobia) pseudotetranychina* Auger & Flechtmann, 2009 (Fig. 1)

The first report of *Petrobia (Petrobia) pseudotetranychina* Auger & Flechtmann, 2009 (Fig. 1), was from *Atriplex* sp. in Tunisia. This species was collected from a new host plant, *Salsola* sp. (Amaranthaceae) in Iran, Ravar, Kerman Province, 31° 12' 59" N, 56° 48' 52" E, 1197 m a.s.l., 3 Nov. 2017. This is the second and the first report of this species from the world and Iran, respectively.

#### Distribution

South Tunisian oasis areas (Auger *et al.* 2009); Iran (this paper).

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**Figure 1.** *Petrobia (Petrobia) pseudotetranychina* (female) – Dorsal view of idiosoma.

#### *New host plants*

*Tetranychus truncatus* (Ehara, 1956) was collected on peppermint from Razavi Khorasan, Iran by Sadeghi-Namaghi (2009). In this paper, this species was collected from *Capparis spinosa* in Kerman province, 30° 54' 14" N, 56° 33' 36" E, 1855 m a.s.l., 3 Nov. 2017. This is the second and the first report of this host plant for tetranychid mites, in the world and Iran, respectively. The first report of *Capparis spinosa* Linnaeus (Capparaceae) as a host plant was for *Tetranychus gladioli* Livshits & Mitrofanov, 1980 (Mitrofanov *et al.* 1978).

*Oligonychus mangiferus* (Rahman & Sapra, 1940) was collected on broad leaf tree, white willow, silver poplar, black locust and mango from Razavi Khorasan, Iran by Arbabi *et al.* (2002) and Sheikholeslam-Zadeh and Sadeghi (2010). Here, this species was collected on *Cydonia oblonga* Miller (Rosaceae) from Shahrebabak, Kerman province, 30° 13' 03" N, 55° 03' 02" E, 1943 m a.s.l., 10 July 2017. This is the first report of this host plant for tetranychid mites, in the world.

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## REFERENCES

- Arbabi, M., Golmohammadzadeh-Khiaban, N. & Askari, M. (2002) Plant mite fauna of Sistan and Baluchestan and Hormozgan provinces. *Journal of Entomological Society of Iran*, 22(1): 1–17 (In Persian with English abstract).
- Auger, P., Chaaban, S.B., Grissa, K.L., Khoualdia, O. & Flechtmann, C.H. (2009) Five new species of Tetranychidae (Acarina, Prostigmata) from South Tunisian oasis areas. *Zootaxa*, 2232: 29–49.
- Boller, E. E. (1984) Eine einfache ausschwemm-methode zur erschellen erfassung von raumilben, trips und anderen kleinarthropoden im weinbau. *Schweiz zeitschrift für Obst- und Weinbau*, 120: 249–255.
- Ehara, S. (1956) Tetranychoid mites of mulberry in Japan. *Journal of the Faculty of Sciences, Hokkaido University, Series VI, Zoology*, 12: 499–510.
- Khanjani, M., Khanjani, M. & Seeman, O.D. (2016) Two new spider mite species of the genus *Petrobia* (*Petrobia*) (Acari: Tetranychidae) from Iran. *Systematic & Applied Acarology*, 21(11): 1473–1495.
- Mahdavi, S.M., Latifi, M. & Asadi, M. (2018) A new species of *Petrobia* (*Mesotetranychus*) (Acari: Tetranychidae) from *Ephedra* sp. (Ephedraceae) in Iran. *Systematic & Applied Acarology*, 23(6): 1148–1154.
- Migeon, A. & Dorked, F. (2019) Spider Mites Web: a comprehensive database for the Tetranychidae. Available from: <http://www.montpellier.inra.fr/CBGP/spmweb> (Accessed on 16 October 2017).
- Mitrofanov, V. I. & Strunkova, Z. I. (1978) A new genus and species of the family Tenuipalpidae (Trombidiformes). *Zoologicheskii Zhurnal*, 52: 1095–1099.
- Müller, O.F. (1776) *Zoologiae Danicae prodromus, seu animalium Daniae et Norvegiae indigenarum characteres, nomina, et synonyma imprimis popularium*, Havniae, 282 pp.
- Murray, A. (1877) *Economic Entomology, Aptera*. London, Chapman and Hall, 433 pp.
- Rahman, K.A. & Sapra, A.N. (1940) Mites of the family Tetranychidae from Lyallpur with descriptions of four new species. *Proceedings of the Indian Academy of Science*, 11: 17–196.
- Reck, G.F. (1952) Some fundamentals of the classification of the tetranychid mites. *Soobshcheniya Akademi Nauk Gruzinskoi SSR*, 13: 419–425.
- Reck, G.F. (1948) Fauna of spider mites (Tetranychidae, Acari) from Georgia. *Trudy Zoologicheskogo Instituta Akademii Nauk Gruz S.S.R.*, 8: 175–185.
- Reck, G.F. & Bagdasarian, A.T. (1949) Opisaniye novykh vidov i rodov *Petrobia* i Tetranychina (Tetranychidae, Acarina). *Dokl Akademii Nauk Armenia SSR Erevan*, 10: 189–102.
- Sadeghi-Namaghi, H. (2009) Tetranychoid mites (Acari: Tetranychoida) associated with forest trees and bushes in suburb parks in Mashhad, NE Iran. *Iranian Journal of Forest and Range Protection Research*, 7(1): 41–45 (In Persian with English abstract).
- Sheikholeslamzadeh, S. & Sadeghi, H. (2010) First records of four mite species (Acari: Tetranychidae) in Iran. *Applied Entomology and Phytopathology*, 78: 121–125.
- Wainstein, B.A. (1960) Tetranychoid mites of Kazakhstan (with revision of the family). *Trudy Nauchno-issledovatel'skogo instituta Zashchita Rastenii Kazakhskaja*, 5: 1–276.

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