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Article

A checklist of spider mites (Acari: Tetranychidae) of India

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ABSTRACT

The list of 135 reported spider mite species (family Tetranychidae) belonging to two subfamilies, six tribes and 20 genera, from various parts of India has been enlisted here. This paper is aimed at compiling the data from published records, which could be useful for future reference as well as research purposes. A list of scientific names of the Indian tetranychid mite species with their synonyms and their distribution are provided in this paper.

KEYWORDS: Bryobiinae; distribution; host; synonym; Tetranychinae.

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INTRODUCTION

The spider mites belong to the family Tetranychidae of the order Prostigmata. The Tetranychidae has worldwide distribution. Some 1200 species of spider mites belonging to over 70 genera are known in the world and more are yet to be discovered (Migeon and Dorkeld 2022), especially in the southern hemisphere. The family Tetranychidae consists of two subfamilies: Bryobiinae and Tetranychinae. The Bryobiinae includes the tribes, Bryobiini, Hystrichonychini, and Petrobiini and the subfamily Tetranychinae includes the tribes, Eurytetranychini, Tenuipalpoidini, and Tetranychini.

These phytophagous mites are polyphagous and feed on food crops, ornamental plants, medicinal plants, etc. This family tops the list of pests injurious to a wide variety of plants (Gupta 1985; Helle and Sabelis 1985; Meyer 1987; Zhang 2003). Spider mites have been identified as the most potential pests with polyphagous nature that exhibit rapid dispersion to exploit new feeding arenas, and damage agricultural as well as horticultural crops, thereby causing severe economic losses (Bolland *et al.* 1998). Apart from direct damage, some of the mite species are known to act as vectors of plant viral diseases causing more potential loss to growers of economically important crops. Potato Virus-Y by *Tetranychus urticae* Koch (Schulz 1963), Dolichos Enation Mosaic Virus by *Tetranychus ludeni* (Rajagopalan 1974), are some of the examples. They may be spread from plant to plant by being carried in air currents, by the movement of infested plants, or by contaminated tools or clothing. They can also crawl to nearby plants, especially when the infestation is severe. The earliest record of

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Tetranychus urticae (red spider mite) was made by Peal in 1868 on tea in Assam. Wood-Mason (1884) described this species as *Tetranychus bioculatus* Wainstein from Assam, as a plant mite of agricultural importance.

Several works related to the taxonomy of spider mites in India were done by ChannaBasavanna (1971), Prasad (1974), Gupta (1979, 1983, 1985). They listed out 21 species, 31 species, 55 species, 83 species and 82 species in 18 genera, respectively. In 1991 Gupta listed the occurrence of 100 species and 20 genera of tetranychid mites, in India, and 101 species belonging to two subfamilies, six tribes, and 19 genera was reported by Gupta and Gupta in 1994. Later, many research works and related articles were published on tetranychid mites in India. Srinivasa *et al.* (2021) listed out 130 spider mites in 19 genera in India. In this paper, an updated checklist of spider mites (Acari: Tetranychidae) of India is provided.

MATERIAL AND METHODS

This is purely a review study, based on the published literature on spider mites in India. The tetranychid mite species of various states in Indian territory are obtained by reviewing published research articles of different authors in reputed journals (Table 1). The data regarding the type species is obtained from the spider mite web. This checklist contains tetranychid species with their subfamilies and tribes listed in alphabetic order along with type data, synonyms, geographical distribution, etc. No data from published doctoral dissertations or unpublished papers are added here.

Table 1. Tetranychid mites found in India in the subfamily, tribe, and their respective genera with species list.

Subfamily	Tribe	Genus	Species
Bryobiinae Berlese	Bryobiini	<i>Bryobia</i> Koch	<i>B. eharai</i> Pritchard & Keifer
			<i>B. praetiosa</i> Koch
	Hystrichonychini	<i>Bryobiella</i> Tuttle & Baker	<i>B. rubrioculus</i> (Scheuten)
			<i>B. punjabensis</i> Prasad
		<i>Aplonobia</i> Womersley	<i>A. sphaeralceae</i> (Tuttle & Baker)
			<i>M. jobneri</i> Prasad
		<i>Mesobryobia</i> Wainstein	<i>M. terpoghossiani</i> (Bagdasarian)
			<i>N. (Neopetrobia) simlaensis</i> Prasad
	Petrobiini	<i>Neopetrobia</i> Wainstein	<i>P. abutiloni</i> Anwarullah
			<i>P. (Tetranychina) harti</i> (Ewing)
Tetranychinae Berlese	Eurytetranychini	<i>Aponychus</i> Rimando	<i>A. bambusae</i> Gupta & Gupta
			<i>A. corpusae</i> Rimando
			<i>A. mallotus</i> Ho
			<i>A. sarjui</i> Gupta
			<i>A. sulcatus</i> Chaudhri
			<i>A. kodaikanalensis</i> (Gupta)
			<i>E. africanus</i> (Tucker)
			<i>E. banksi</i> (McGregor)
			<i>E. bilobatus</i> Nassar & Ghai
			<i>E. bredini</i> Baker & Pritchard
	<i>Eutetranychus</i> Banks		<i>E. caricae</i> Nassar & Ghai
			<i>E. citri</i> Attiah
			<i>E. maximae</i> Nassar & Ghai
			<i>E. nagai</i> Nassar & Ghai
			<i>E. orientalis</i> (Klein)
			<i>E. pantopus</i> (Berlese)
			<i>E. phaseoli</i> Nassar & Ghai

Table 1. Continued.

Subfamily	Tribe	Genus	Species
Tetranychinae Berlese	Eurytetranychini Reck	<i>Stylophoronychus</i> Prasad	<i>S. baghensis</i> (Prasad) <i>S. lalii</i> Prasad <i>S. vannus</i> (Rimando) <i>S. bandipurensis</i> Mallik & Kumar
	Tenuipalpodini Pritchard & Baker	<i>Swarnanychus</i> Mallik & Kumar <i>Tenuipalponychus</i> ChannaBasavanna & Lakkundi <i>Mixonychus</i> (Bakerina) Chaudhri	<i>T. citri</i> ChannaBassavanna & Lakkundi <i>M. (Bakerina) aculus</i> Chaudhri <i>M. (Bakerina) orissaensis</i> Prasad <i>M. (Tylonicus) jayaraji</i> Karuppuchamy & Mohanasundaram. <i>E. broodryki</i> Meyer <i>E. communis</i> Gupta & Gupta <i>E. celtis</i> Ehara <i>E. fremonti</i> Tuttle & Baker <i>E. frosti</i> (McGregor) <i>E. hicoriae</i> (McGregor) <i>E. hirsti</i> Pritchard & Baker <i>E. hypogaeae</i> Karuppuchamy & Mohanasundaram <i>E. indicus</i> Gupta & Gupta <i>E. irregularis</i> Nassar & Ghai <i>E. kankitus</i> Ehara <i>E. ladakhensis</i> Gupta <i>E. limonae</i> Karuppuchamy & Mohanasundaram <i>E. mandensis</i> Manson <i>E. multidigituli</i> (Ewing) <i>E. nanningensis</i> Ma & Wang <i>E. neoperplexus</i> Estebanes & Baker <i>E. pamela</i> Manson <i>E. populi</i> (Koch) <i>E. ranikhetensis</i> Gupta & Gupta <i>E. rohila</i> Nassar & Ghai <i>E. sexmaculatus</i> Riley <i>E. suginamensis</i> (Yokoyama) <i>E. syzygii</i> Gupta & Gupta <i>E. thailandicus</i> Ehara & Wongsiri <i>E. truncates</i> Estebanes & Baker <i>E. uncatus</i> Garman <i>E. weldoni</i> (Ewing) <i>H. umfoloziensis</i> Meyer <i>O. bambusae</i> Karuppuchamy & Mohanasundaram <i>O. biharensis</i> (Hirst) <i>O. coffeae</i> (Neitner) <i>O. coniferarum</i> (McGregor) <i>O. duncombei</i> Meyer <i>O. grypus</i> Baker & Pritchard <i>O. indicus</i> (Hirst) <i>O. iseilemae</i> (Hirst) <i>O. mangiferus</i> (Rahman & Sapra) <i>O. manishi</i> Gupta <i>O. martensis</i> Meyer <i>O. neotylus</i> Zeity & Srinivasa <i>O. oryzae</i> (Hirst) <i>O. plegas</i> Baker & Pritchard
	Tetranychini Reck	<i>Eotetranychus</i> Oudemans	
		<i>Hellenychus</i> Gutierrez <i>Oligonychus</i> Berlese	

Table 1. Continued.

Subfamily	Tribe	Genus	Species
Tetranychinae Berlese	Tetranychini Reck	<i>Oligonychus</i> Berlese	<i>O. ponmanaiensis</i> Karuppuchamy & Mohanasundaram
			<i>O. punicae</i> (Hirst)
			<i>O. sacchari</i> (McGregor)
			<i>O. sapienticolus</i> Gupta
			<i>O. thelytokus</i> Gutierrez
			<i>O. tylus</i> Baker & Pritchard
		<i>Panonychus</i> Yokoyama	<i>O. vitis</i> Zaher & Shehata
			<i>P. citri</i> (McGregor)
			<i>P. elongatus</i> Manson
		<i>Schizotetranychus</i> Tragardh	<i>P. ulmi</i> (Koch)
			<i>S. andropogoni</i> Hirst
			<i>S. approximatus</i> Ehara
			<i>S. asparagi</i> (Oudemans)
			<i>S. baltazarai</i> Rimando
			<i>S. cajani</i> Gupta
			<i>S. Chiangmaiensis</i> Ehara & Wongsiri
			<i>S. fluvialis</i> McGregor
			<i>S. hindustanicus</i> (Hirst)
			<i>S. indicus</i> Gupta & Gupta
			<i>S. kochummeni</i> Ehara & Tho
			<i>S. krungthepensis</i> Auger & Naing
			<i>S. laevidorsatus</i> Ehara & Tho
			<i>S. lespedezae</i> Beglyarov & Mitrofanov
			<i>S. masoni</i> Gupta
			<i>S. recki</i> Ehara
			<i>S. reticulatus</i> Baker & Pritchard
			<i>S. schizopus</i> (Zacher)
			<i>S. spiculus</i> Baker & Pritchard
			<i>S. spiraefolia</i> Garman
			<i>S. tephrosiae</i> Gutierrez
			<i>S. undulates</i> (Beer & Lang)
		<i>Stigmaeopsis</i> Banks	<i>S. longus</i> Saito
			<i>S. meghalayensis</i> (Gupta & Gupta)
		<i>Tetranychus</i> Dufour	<i>T. afrindicus</i> Nassar & Ghai
			<i>T. angolensis</i> Meyer
			<i>T. bambusae</i> Wang & Ma
			<i>T. bellottii</i> Flechtmann
			<i>T. fijiensis</i> Hirst
			<i>T. hirsutus</i> Zeity & Srinivasa
			<i>T. hypogaeae</i> Gupta
			<i>T. kanzawai</i> Kishida
			<i>T. lombardini</i> Baker & Pritchard
			<i>T. ludeni</i> Zacher
			<i>T. macfarlanei</i> Baker & Pritchard
			<i>T. marianae</i> McGregor
			<i>T. neocaledonicus</i> Andre
			<i>T. gloveri</i> Banks
			<i>T. papayae</i> Nassar & Ghai
			<i>T. puschelii</i> Meyer
			<i>T. sayedi</i> Baker & Pritchard
			<i>T. taiwanicus</i> Ehara
			<i>T. truncatus</i> Ehara
			<i>T. turkestan</i> (Ugarov & Nikolski)
			<i>T. udaipurensis</i> Gupta & Gupta
			<i>T. urticae</i> Koch
			<i>T. zaheri</i> Nassar & Ghai

RESULTS

Family Tetranychidae **Donnadieu, 1975**

Subfamily Bryobiinae **Berlese**

Tribe Bryobiini **Berlese**

Genus *Bryobia* **Koch**

1. *Bryobia eharai* **Pritchard & Keifer, 1958**

Bryobia eharai in: Pritchard and Keifer (1958): 503–506; Menon and Ghai (1968): 88–89; Bindra and Sing (1970): 17–24.

Synonyms

Bryobia aequa Kishida, 1954; Ehara (1959).

Bryobia aqua Kishida, 1954.

Type host – Chrysanthemum species.

Type locality – Japan and Pakistan.

Distribution – Delhi, Gujarat, Himachal Pradesh, Jammu Kashmir, Karnataka, Maharashtra, Meghalaya, Punjab, Uttar Pradesh and West Bengal. **Outside India** – China, Japan and Pakistan.

Host – *Chrysanthemum* sp.

2. *Bryobia praetiosa* **Koch, 1836**

Bryobia praetiosa in: Koch (1836); Menon and Ghai (1968): 88–89; Gupta (1992): 61–211.

Synonyms

Bryobia speciosa Koch, 1838; Berlese (1888).

Bryobia pratensis Garman, 1885.

Bryobia humeralis Halbert, 1923.

Bryobia pseudopraetiosa Wainstein, 1956a.

Bryobia latitans Livshits & Mitrofanov, 1966.

Type host – Poaceae.

Type locality – Germany.

Distribution – Assam, Delhi, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Punjab, Uttar Pradesh and West Bengal. **Outside India** – Argentina, Australia, Austria, Belgium, Bolivia, Brazil, Canada, China, Colombia, Costa Rica, Cyprus, Denmark, Egypt, Finland, France, Georgia, Germany, Greece, Greenland, Hungary, Iran, Iraq, Ireland, Israel, Italy, Japan, Kazakhstan, Kenya, Korea, Mexico, Morocco, Netherlands, New Zealand, Norway, Pakistan, Palestinian, Paraguay, Peru, Poland, Portugal, Romania, Saudi Arabia, Serbia, South Africa, Spain, Sweden, Switzerland, Taiwan, Territories, Türkiye, United Kingdom, United States, Uruguay and Yaman.

Hosts – *Prunus communis* and *Pyrus communis*.

3. *Bryobia rubrioculus* (**Scheuten, 1857**)

Sannio rubrioculus Scheuten, 1857.

Bryobia rubrioculus in: Scheuten (1857): 104–114; Eyndhoven (1956): 45–46; Gupta and Gupta (1978): 87–91.

Synonyms

Bryobia bioculus Amerlind, 1862.

Acarus pyri Boisduval, 1867.

Bryobia goriensis Reck, 1947.

Bryobia redikorzevi Reck, 1947.

Bryobia arborea Morgan & Anderson, 1957.

Type hosts – *Malvus sylvestris* and *Prunus* sp.

Type locality – Germany.

Distribution – Madhya Pradesh, Himachal Pradesh and Kashmir valley. **Outside India** – Afganistan, Algeria, Argentina, Armenia, Australia, Azerbaijan, Belgium, Brazil, Bulgaria, Canada, Chile, Colombia, Czechoslovakia, Denmark, Finland, France, Georgia, Germany, Greece, Hungary, Iran, Iraq, Ireland, Italy, Japan, Kazhakhstan, Korea, Lebanon, Lithuania, Mexico, Moldova, Morocco, Mozambique, Nepal, Netherlands, New Zealand, Norway, Pakistan, Poland, Portugal, Romania, Russia, Saudi Arabia, Serbia, South Africa, Spain, Switzerland, Syria, Tunisia, Türkiye, Ukraine, United Kingdom, Uruguay, USA, Yemen, Serbia, and Montenegro.

Hosts – *Acer negundo*, *Acer pseudoplatanus*, *Ambrosia artemisiifolia*, *Artemisia vulgaris*, *Berberis aquifolium*, *Betula pendula*, *Betula pubescens*, *Carpinus betulus*, *Cerasus avium*, *Cerasus cerasus*, *Cerasus serrula*, *Cerasus vulgaris*, *Chaenomeles japonica*, *Citrus reticulata*, *Conyza canadensis*, *Corylus avellane*, *Corylus columna*, *Corylus maxima*, *Cotoneaster horizontalis*, *Cotoneaster melanocarpus*, *Crataegus laevigata*, *Cydonia oblonga*, *Diervilla* sp., *Eriobotrya japonica*, *Ficus carica*, *Ficus* sp., *Fragaria* sp., *Fragaria vesca*, *Fraxinus excelsior*, *Juglans regia*, *Juniperus* sp., *Lonicera* sp., *Lonicera tatarica*, *Lonicera xylosteum*, *Malus domestica*, *Malus floribunda*, *Malus pumila*, *Malus* sp., *Malus sylvestris*, *Malus purpurea*, *Rhus* sp., *Ribes rubrum*, *Rosa* sp., *Rubus* sp., *Salix* sp., *Sarcobatus vermiculatus*, *Syringa vulgaris*, *Thuja occidentalis*, *Tilia platyphyllos*, *Tilia* sp., etc.

Genus *Bryobiella* Tuttle & Baker

4. *Bryobiella punjabensis* Prasad, 1975

Bryobiella punjabensis Prasad, 1975c.

Type host – unknown.

Type locality – India.

Distribution – Punjab.

Host – House sparrow nest.

Tribe Hystrihonychini Pritchard & Baker

Genus *Aplonobia* Womersley

5. *Aplonobia sphaeralceae* (Tuttle & Baker, 1968)

Aplonobia sphaeralceae in: Tuttle and Baker (1968): 143; Sadana and Chhabra (1980):104–109; Baker and Tuttle (1994): 82.

Georgiobia sphaeralceae Tuttle & Baker, 1968.

Type hosts – *Ambrosia deltoidea* and *Sphaeralcea ambigua*.

Type locality – United States.

Distribution – Punjab and West Bengal. **Outside India** – USA.

Hosts – *Sphaerolcea ambigua*, *Ambrosia deltoidei* and *Ambrosia dumosa*.

Genus *Mesobryobia* Wainstein

6. *Mesobryobia jobneri* Prasad

Mesobryobia jobneri Prasad, 1975c.

Type host – *Pennisetum purpureum*.

Type locality – India.

Distribution – Rajasthan.

Host – *Pennisetum purpureum*.

7. *Mesobryobia terpoghossiani* (Bagdasarian, 1959)

Petrobia terpoghossiani Bagdasarian, 1959.

Monoceronychus terpoghossiani (Bagdasarian, 1959); Wainstein (1960); Menon and Ghai (1968).

Type hosts – *Dactylis glomerata* and *Elymus repens*.

Type locality – Armenia.

Distribution – Delhi and Rajasthan. **Outside India** – Armenia, Kazakhstan and Ukraine.

Hosts – Poaceae.

Genus *Neopetrobia* Wainstein

8. *Neopetrobia* (*Neopetrobia*) *simlaensis* Prasad, 1975

Neopetrobia simlaensis Prasad, 1975c.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Himachal Pradesh and Jammu & Kashmir.

Hosts – *Bambusa* sp. and Poaceae sp.

Genus *Porcupinychus* Anwarullah

9. *Porcupinychus abutiloni* Anwarullah, 1966

Porcupinychus abutiloni in: Anwarullah (1966): 71–75; Prasad (1975d): 18–25; Gupta and Gupta (1994): 1–196.

Type host – *Abutilon indicum*.

Type locality – Pakistan.

Distribution – Gujarat, Punjab and West Bengal.

Hosts – *Sida* sp.

Outside India – Pakistan.

Tribe Petrobiini Reck Genus *Petrobia* Murray

10. *Petrobia* (*Petrobia*) *latens* (Müller, 1776)

Acarus latens Müller, 1776.

Petrobia latens in: Oudemans (1915): 1–78.

Petrobia (*Petrobia*) *latens* (Müller) in: Wainstein (1960): 214–226; Bindra and Kittur (1961): 71.

Synonyms

Tetranychus anauniensis Canestrini, 1889.

Petrobia cepae Sayed, 1946.

Tetranobia decepta Banks, 1917.

Petrobia erevanica Reck & Bagdasarian, 1949.

Trombidium lapidum Hammer, 1804; Hermann (1804).

Petrobia lapidum (Hammer, 1804); Pritchard and Baker (1955).

Tetranychus longipes Banks, 1912.

Acarus petrarum Fourcroy, 1785.

Acarus praegnans Schrank, 1781.

Tetranychopsis simplex Trägårdh, 1904.

Tetranychina tritici Ewing, 1921.

Type host – Unknown.

Type locality – Denmark.

Distribution – Bihar, Delhi, Haryana, Jammu & Kashmir, Karnataka, Madhya Pradesh, Punjab, Rajasthan and Uttar Pradesh. **Outside India** – Algeria, Armenia, Azerbaijan, Argentina, Australia, Chile, China, Denmark, Egypt, France, Georgia, Germany, Hungary, Iran, Ireland, Israel, Italy, Japan, Kazakhstan, Korea, Mexico, Netherlands, New Zealand, Pakistan, Poland, Saudi Arabia, South Africa, Spain, Syria, Türkiye, Ukraine, United Kingdom, United States, Yemen and Zimbabwe.

Hosts – *Cajanus cajan*, *Chenopodium album*, *Citrus* sp., *Convolvulus arvensis*, *Cynodon dactylon*, *Fumaria indica*, *Hordeum vulgare*, *Liliaceae* sp., *Trifolium* sp., *Triticum aestivum*, *Vicia hirsute* and *Zea mays*.

11. *Petrobia (Tetranychina) harti* (Ewing, 1909)

Neophyllobius harti Ewing, 1909.

Petrobia harti (Ewing, 1909); Wainstein (1960); Channabasavanna and Banu (1972).

Synonyms

Tetranychina agerati Sayed, 1946.

Tenuicrus errabundus Womersley, 1940.

Tetranychina macdonoughi McGregor, 1917.

Neobryobia spectabilis Reck, 1941.

Tetranychina spectabilis (Reck, 1941); Pritchard & Baker (1955).

Tetranychina tuberculata Kishida, 1921.

Type host – Unknown.

Type locality – United States.

Distribution – Assam, Delhi, Jammu & Kashmir, Karnataka, Punjab and West Bengal. **Outside India** – Australia, Brazil, Colombia, Costa Rica, Egypt, El Salvador, Fiji, France, Georgia, Greece, Hungary, Iran, Israel, Italy, Japan, Kenya, Korea, Madagascar, Malawi, Mauritania, Mauritius, Mexico, Mozambique, Portugal, South Africa, Spain, Syria, Taiwan, Tunisia, USA and Vanuatu.

Hosts – *Averrhoa carambola*, *Oxalis corniculata*, *O. pilosa*, *Saccharum officinarum*, *S. spontaneum* and *Viola* sp.

Subfamily Tetranychinae Berlese

Tribe Eurytetranychini Reck

Genus *Aponychus* Rimando

12. *Aponychus bambusae* Gupta & Gupta, 1990

Aponychus bambusae Gupta & Gupta, 1990.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Arunachal Pradesh, West Bengal, Eastern Himalayan region.

Hosts – *Bambusa bambos*, *Saccharum officinarum*.

13. *Aponychus corpuzae* Rimando, 1966

Aponychus corpuzae in: Rimando 5–113; Gupta (1976: 327–351; 1985: 520).

Type hosts – *Bambusa vulgaris* and *Schizostachyum lima*.

Type locality – Philippines.

Distribution – Andaman Nicobar Islands, Assam, Karnataka, Meghalaya, Orissa, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – China, Indonesia, Italy, Japan, Korea, Malaysia, Philippines, Slovenia, Taiwan and Thailand.

Hosts – Bamboo species, *Oryza sativa*, *Phyllostachys bambusoides*, *Passiflora edulis*, *Saccharum spontaneum*, *Sasa borealis*, *S. senanensis*, *Schizostachyum lima*, *Syzygium aqueum*, *Thyrsostachys siamensis* and *Vietnamosasa ciliate*.

14. *Aponychus mallotus* Ho, 2003

Aponychus mallotus in: Ho (2003); Zeity *et al.* (2016a).

Type host – *Mallotus paniculatus*.

Type locality – Taiwan.

Distribution – Bihar and Karnataka. **Outside India** – Taiwan.

Host – *Murraya paniculatus*.

15. *Aponychus sarjui* Gupta, 1980

Aponychus sarjui Gupta, 1980.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Andaman Nicobar Islands.

Hosts – *Bambusa* sp., *Bambusa arundinaceae*.

16. *Aponychus sulcatus* Chaudhri, 1972

Aponychus sulcatus Chaudhri, 1972. Sadana & Chhabra, 1980.

Type hosts – *Arundo donax* and *Boerhavia diffusa*.

Type locality – Pakistan.

Distribution – Punjab.

Host – *Carica papaya*.

17. *Aponychus kodaikanalensis* (Gupta, 1984)

Paraponychus kodaikanalensis Gupta, 1984.

Aponychus kodaikanalensis (Gupta, 1984).

Type host – *Bambusa*.

Type locality – India.

Distribution – Tamil Nadu.

Host – *Bambusa aurandinacea*.

Genus *Eutetranychus* Banks

18. *Eutetranychus africanus* (Tucker, 1926)

Anychus africanus Tucker, 1926.

Eutetranychus africanus (Tucker, 1926); Manson (1963): 352; Prasad (1974): 144

Synonym

Eutetranychus sambiranensis Gutierrez & Helle, 1971.

Type hosts – *Citrus limon*, *Citrus xaurantium* and *Plumeria*.

Type locality – South Africa.

Distribution – Assam, Delhi, Himachal Pradesh, Karnataka, Madhya Pradesh and West Bengal.

Outside India – Comoros, Egypt, France, French Polynesia, Iran, Japan, Kenya, Madagascar, Mauritius, Myanmar, Mozambique, Papua New Guinea, South Africa, Taiwan and Vanuatu.

Hosts – *Acecia confuse*, *Artocarpus altilis*, *A. heterophyllum*, *A. integer*, *Bauhinia acuminata*, *Bauhinia* sp., *Carica papaya*, *Cascabela thevetia*, *Cassia fistula*, *Ceiba speciosa*, *Citrus aurantium*, *C. hystrix*, *C. limon*, *C. paradisi*, *C. reticulata*, *C. sinensis*, *Citrus* sp., *C. trifoliata*, *Harrisonia abyssinica*, *Codiaeum variegatum*, *Cordia* sp., *Cosmos sulphureus*, *Cryptostegia madagascariensis*, *Dalbergia sissoo*, *Eriobotrya japonica*, *Erythrina cristagalli*, *Erythrina fusca*, *Erythrina* sp., *E. speciosa*, *E. variegata*, *Eucalyptus globulus*, *Euphorbia pulcherrima*, *Ficus carica*, *F. Mauritica*, *F. microcarpa*, *F. septica*, *Gardenia jasminoides*, *Gossypium hirsutum*, *Gossypium* sp., *Grewia lavanalisensis*, *Hevea brasiliensis*, *Ipomoea batatas*, *Jatropha integerrima*, *Litsea chinensis*, *L. minuta*, *Malus domestica*, *Manihot esculenta*, *Manihot* sp., *Melicope triphylla*, *Morus alba*, *Murraya koenigii*, *M. paniculata*, *Neyraudia* sp., *Pachira aquatic*, *Plumeria alba*, *Plumeria rubra*, *Plumeria* sp., *Prunus domestica*, *Prunus persica*, *Psidium guajava*, *Pterospermum semisagittifolium*, *Pueraria montana*, *Ricinus communis*, *Rosa* sp., *Senna sulfurea*, *Solanum* sp., *Tecoma stans*, *Tectona grandis*, *Trichosanthes laceribractea*, *Vitis labrusca*, *Vitis* sp., *Zea mays* and *Zizyphus mauritiana*.

19. *Eutetranychus banksi* (McGregor, 1914)

Tetranychus banksi McGregor, 1914

Synonym

Eutetranychus clarki (McGregor, 1935).

Neotetranychus (*Eutetranychus*) *banksi* McGregor, 1914.

Anychus banksi McGregor, 1914.

Eutetranychus banksi (McGregor, 1914); Yadav *et al.* (2021).

Type hosts – *Mucuna pruriens* and *Ricinus communis*.

Type locality – United States.

Distribution – Uttar Pradesh. **Outside India**– Argentina, Australia, Brazil, Colombia, Costa Rica, Cuba, Dominican Republic, Egypt, El Salvador, Guadeloupe (France), Guatemala, Honduras, Iran, Martinique, Mexico, Mozambique, Nicaragua, Panama, Paraguay, Peru, Portugal, Spain, United states, Uruguay and Venezuela.

Hosts – *Artocarpus altilis*, castor bean, *Citrus* sp., *Codiaeum variegatum*, *Phaseolus limensis*, *Carica papaya* and *Plumeria acuminata*.

20. *Eutetranychus bilobatus* Nassar & Ghai, 1981

Eutetranychus bilobatus Nassar & Ghai, 1981: 343–345.

Type host – *Zizyphus* sp.

Type locality – India.

Distribution – Delhi.

Host – *Zizyphus* sp.

21. *Eutetranychus bredini* Baker & Pritchard, 1960

Eutetranychus bredini in: Baker and Pritchard (1960): 467; Sadana and Gupta (1983): 1–6.

Type host – *Phoenix dactylifera*.

Type locality – Rwanda.

Distribution – Assam. **Outside India** – Rwanda.

Host – *Solanum melongena*.

22. *Eutetranychus caricae* Nassar & Ghai, 1981

Eutetranychus caricae Nassar & Ghai, 1981: 347.

Type host – *Ficus carica*.

Type locality – India.

Distribution – Delhi.

Host – *Ficus carica*.

23. *Eutetranychus citri* Attiah, 1967

Eutetranychus citri in: Attiah (1967a): 11–16; Nassar and Ghai (1981): 333–396.

Type host – *Citrus limon*.

Type locality – Egypt.

Distribution – Delhi. **Outside India** – Egypt.

Hosts – *Gossypium* sp. and *Citrus* sp.

24. *Eutetranychus maximae* Nassar & Ghai, 1981

Eutetranychus maximae Nassar & Ghai, 1981: 339.

Type host – *Cucurbita maxima*.

Type locality – India.

Distribution – Delhi and West Bengal.

Hosts – *Cucurbita maxima*, *Albizia lebbek* and *Eriobotrya japonica*.

25. *Eutetranychus nagai* Nassar & Ghai, 1981

Eutetranychus nagai Nassar & Ghai, 1981: 347–349.

Type host – *Eriobotrya japonica*.

Type locality – India.

Distribution – Delhi.

26. *Eutetranychus orientalis* (Klein, 1936)

Anychus orientalis Klein, 1936.

Synonyms

Anychus ricini Rahman & Sapra, 1940.

Eutetranychus aneckei Meyer, 1974; Nassar and Ghai (1981).

Type host – *Citrus* sp.

Type locality – Iran and Israel.

Distribution – Assam, Jammu & Kashmir, Delhi, Maharashtra, Punjab, West Bengal, Gujarat, Meghalaya, Haryana, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Kerala, Tamil Nadu, Karnataka, Himachal Pradesh, Rajasthan, Orissa and Andaman Nicobar. **Outside India** – Afghanistan, Australia, Cape Verde, China, Cyprus, Egypt, Greece, India, Indonesia, Iran, Iraq, Israel, Ivory Coast, Japan, Kenya, Kuwait, Lebanon, Malawi, Malaysia, Mali, Mauritania, Niger, Nigeria, Pakistan,

Palestinian Territories, Philippines, Saudi Arabia, Senegal, Spain, Swaziland, Syria, Taiwan, Thailand, Tunisia, Türkiye, Vietnam and Yemen.

Hosts – *Acacia modesta*, *A. nilotica*, *Albizia harveyi*, *Al. lebbeck*, *Al. procera*, *Ananas comosus*, *Annona squamosa*, *Bambusa ventricosa*, *Bauhinia purpurea*, *B. variegata*, *Callistemon lanceolatus*, *Calotropis gigantea*, *C. procera*, *Cannabis sativa*, *Cassia fistula*, *Ca. fruticosa*, *Ca. holosericea*, *Ca. occidentalis*, *Ca. siamea*, *Citrus* sp., *Citrus aurantium*, *Ci. grandis*, *Ci. jambhiri*, *Ci. karna*, *Ci. limon*, *Ci. paradisi*, *Ci. reticulata*, *Ci. sinensis*, *Cocos nucifera*, *Cucumis melo*, *Cucurbita maxima*, *Cu. moschata*, *Cu. pepo*, *Durio malaccensis*, *D. zibethinus*, *Ficus burkei*, *F. carica*, *F. macrophylla*, *F. palmata*, *F. religiosa*, *F. retusa*, *Grewia asiatica*, *G. mollis*, *G. tenax*, *G. villosa*, *Hedera japonica*, *Hevea brasiliensis*, *Ipomoea batatas*, *Lantana camara*, *Malus domestica*, *Manihot esculenta*, *Morus alba*, *M. nigra*, *Nerium indicum*, *N. oleander*, *Passiflora* sp., *Persea americana*, *Phoenix dactylifera*, *P. dealbata*, *Plumeria acutifolia*, *P. alba*, *P. indica*, *Prunus domestica*, *P. dulcis*, *P. persica*, *Psidium guajava*, *Pyrus communis*, *P. pyrifolia*, *Ricinus communis*, *Rosa* sp., *Saccharum officinarum*, *Solanum melongena*, *S. nigrum*, *Terminalia catappa*, *Trema orientalis* and *Zea mays*.

27. *Eutetranychus pantopus* (Berlese, 1910)

Tetranychus pantopus Berlese, 1910: 242.

Eutetranychus pantopus in: Baker and Pritchard (1960): 455–574; Meyer (1974): 1–292; Anonymous (1989): 1–184.

Type host – *Ficus* sp.

Type locality – Australia.

Distribution – Karnataka.

Hosts – *Albizia lebbeck*, *Azadirachta indica*, *Citrus* sp., *Ficus* sp. and *Ricinus communis*.

Outside India – Australia.

28. *Eutetranychus phaseoli* Nassar & Ghai, 1981

Eutetranychus phaseoli Nassar & Ghai, 1981: 341–343.

Type host – *Phaseolus vulgaris*.

Type locality – India.

Distribution – Delhi and West Bengal.

Host – *Phaseolus vulgaris*.

Genus *Stylophoronychus* Prasad

29. *Stylophoronychus baghensis* (Prasad, 1975)

Aponychus (*Stylophoronychus*) *baghensis* Prasad, 1975a: 2–4.

Stylophoronychus baghensis Prasad, 1975a; Zhang *et al.* (2000): 40.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Bihar, Karnataka and Meghalaya. **Outside India** – China.

Hosts – *Bambusa bambos*, *B. vulgaris* and *Bambusa* sp.

30. *Stylophoronychus lalii* Prasad, 1975

Aponychus (*Stylophoronychus*) *lalii* Prasad, 1975b: 8–10.

Stylophoronychus lalii Prasad, 1975b; Zhang *et al.* (2000).

Type host – *Bambusa bambos*.

Type locality – India.

Distribution – Bihar.

31. *Stylophoronychus vannus* (Rimando, 1968)

Aponychus vannus Rimando, 1968; Rimando and Corpuz-Raros (1996): 12.

Stylophoronychus vannus (Rimando, 1968) in: Meyer (1987): 1–175; Zhang *et al.* (2000): 9–17.

Sinotetranychus vannus (Rimando, 1968) in: Bolland *et al.* (1998): 392.

Type host – *Bambusa* sp.

Type locality – Philippines.

Distribution – Arunachal Pradesh, Kerala, Karnataka and West Bengal. **Outside India** – Indonesia, Malaysia, Philippines and Thailand.

Hosts – *Elephantopus* sp., *Melanolepis multiglandulosa*, *Bambusa* sp., *Bambusa blumeana*, *Bambusa tuldoidea*, *Bambusa vulgaris*, *Gigantochloa levis*, *Gigantochloa ligulata* and *Thyrsostachys siamensis*.

Tribe Tenuipalpodini Pritchard & Baker

Genus *Swarnanychus* Mallik & Kumar

32. *Swarnanychus bandipurensis* Mallik & Kumar, 1998

Swarnanychus bandipurensis Mallik & Kumar, 1998.

Type host – *Grewia hirsuta*.

Type locality – India.

Distribution – Karnataka and Tamil Nadu.

Host – *Grewia hirsuta*.

Genus *Tenuipalponychus* ChannaBasavanna & Lakkundi

33. *Tenuipalponychus citri* ChannaBassavanna & Lakkundi, 1977

Tenuipalponychus citri ChannaBassavanna & Lakkundi, 1977: 22–23.

Type host – *Citrus sinensis*.

Type locality – India.

Distribution – Karnataka.

Host – Citrus.

Genus *Mixonychus* (*Bakerina*) Chaudhri

34. *Mixonychus* (*Bakerina*) *aculus* Chaudhri, 1971

Bakerina aculus in: Chaudhri (1971): 195–202; Sadana *et al.* (1981): 325–327.

Type host – *Salvadora oleoides*.

Type locality – Pakistan.

Distribution – Punjab and West Bengal. **Outside India** – Pakistan.

Host – *Thuja orientalis*.

35. *Mixonychus* (*Bakerina*) *orissaensis* Prasad, 1975

Bakerina orissaensis Prasad, 1975d.

Type host – *Artocarpus heterophyllus*.

Type locality – India.

Distribution – Orissa.

Hosts – *Allium* sp., *Artocarpus heterophyllus* and *A. integer*.

36. *Mixonychus (Tylonychus) jayaraji* Karuppuchamy & Mohanasundaram, 1987

Mixonychus (Tylonychus) jayaraji in: Karuppuchamy and Mohanasundaram (1987): 89; Bolland *et al.* (1998): 87.

Tylonychus jayaraji Karuppuchamy & Mohanasundaram, 1987.

Type host – *Tamarix* sp.

Type locality – India.

Distribution – Tamil Nadu.

Host – *Tamarix* sp.

Tribe Tetranychini Reck Genus *Eotetranychus* Oudemans

37. *Eotetranychus broodryki* Meyer, 1974

Eotetranychus broodryki in: Meyer (1974): 201; Das and Naik (1977): 6; Gupta (1985): 1–196.

Type host – unknown.

Type locality – Zimbabwe.

Distribution – Orissa and Arunachal Pradesh. **Outside India** – Zimbabwe.

Host – *Cajanus cajan*.

38. *Eotetranychus communis* Gupta & Gupta, 1994

Eotetranychus communis Gupta & Gupta, 1994: 60.

Type host – *Pyrus communis*.

Type locality – India.

Distribution – Rajasthan and Uttar Pradesh.

Host – *Pyrus communis*.

39. *Eotetranychus celtis* Ehara, 1965

Eotetranychus celtis Ehara, 1965.

Eotetranychus rajouriensis Nassar & Ghai, 1981.

Type host – *Celtis sinensis*.

Type locality – Japan.

Distribution – Delhi and Karnataka. **Outside India** – China, Japan and Thailand.

Hosts – *Ziziphus mauritiana*, *Z. oenoplia*, *Z. rugosa* and *Ziziphus* sp.

40. *Eotetranychus fremonti* Tuttle & Baker, 1964

Eotetranychus fremonti in: Tuttle and Baker (1964): 1–41; Gupta (1980): 113.

Type host – *Populus fremontii*.

Type locality – United States.

Distribution – Andaman Nicobar, Himachal Pradesh and West Bengal. **Outside India** – Mexico and USA.

Hosts – *Ficus carica*, *Ficus* sp. and *Morus alba*.

41. *Eotetranychus frosti* (McGregor, 1952)

Tetranychus frosti McGregor, 1952.

Eotetranychus frosti (McGregor) in: Pritchard and Baker (1955): 472; Gupta and Gupta (1976): 6–7.

Type host – *Rosa* sp.

Type locality – United States.

Distribution – Chhattisgarh, Gujarat, Himachal Pradesh, Jammu & Kashmir and Madhya Pradesh.

Outside India – Iran and USA.

Hosts – *Citrus* sp. and *Malus domestica*.

42. *Eotetranychus hicoriae* (McGregor, 1950)

Tetranychus hicoriae McGregor, 1950.

Eotetranychus hicoriae (McGregor) in: Pritchard and Baker (1955): 472; Mallikarjunappa (1987): 4–5.

Type host – *Carya illinoensis*.

Type locality – United State.

Distribution – Karnataka and West Bengal. **Outside India** – China, Korea, Saudi Arabia and USA.

Hosts – *Psidium guajava*.

43. *Eotetranychus hirsti* Pritchard & Baker, 1955

Tetranychus fici Hirst, 1926.

Eotetranychus hirsti in: Pritchard & Baker (1955): 472; Nassar and Ghai (1981): 333–396; Gupta and Gupta (1994): 1–196.

Type host – *Ficus carica*.

Type locality – India and Pakistan.

Distribution – Andhra Pradesh, Bihar, Karnataka, Delhi, Meghalaya, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – Cyprus, Iran, Israel, Pakistan and Syria.

Hosts – *Bauhinia* sp., *Ficus* sp., *F. cunea*, *F. racemosa*, *F. religiosa*, *F. semicordata* and *Sterculia urens*.

44. *Eotetranychus hypogaeae* Karuppuchamy & Mohanasundaram, 1988

Eotetranychus hypogaeae Karuppuchamy & Mohanasundaram, 1988: 395.

Type host – *Arachis hypogaea*.

Type locality – India.

Distribution – Tamil Nadu.

45. *Eotetranychus indicus* Gupta & Gupta, 1990

Eotetranychus indicus Gupta & Gupta, 1990: 20.

Type host – *Pyrus communis*.

Type locality – India.

Distribution – Arunachal Pradesh and Uttar Pradesh.

46. *Eotetranychus irregularensis* Nassar & Ghai, 1981

Eotetranychus irregularensis Nassar & Ghai, 1981: 357.

Type host – *Ficus carica* and *Ziziphus jujuba*.

Type locality – India.

Distribution – Delhi.

Hosts – *Ficus carica* and *Ziziphus jujuba*.

47. *Eotetranychus kankitus* Ehara, 1963

Eotetranychus kankitus in: Ehara (1955): 178–182; Manson (1963): 353.

Type host – *Citrus* sp.

Type locality – Japan.

Distribution – Assam, Meghalaya and Uttar Pradesh. **Outside India** – China, Nepal and Japan.

Hosts – *Citrus reticulata*, *Prunus armeniaca*, *Pyrus communis*, *Rosa chinensis* and *Rosa* sp.

48. *Eotetranychus ladakhensis* Gupta, 1981

Eotetranychus ladakhensis Gupta, 1981: 236.

Type host – Unknown.

Type locality – India.

Distribution – Assam, Himachal Pradesh and Jammu & Kashmir.

Host – *Citrus* sp.

49. *Eotetranychus limonae* Karuppuchamy & Mohanasundaram, 1988

Eotetranychus limonae Karuppuchamy & Mohanasundaram, 1988: 397.

Type host – *Citrus limon*.

Type locality – India.

Distribution – Tamil Nadu.

Hosts – *Citrus limon*.

50. *Eotetranychus mandensis* Manson, 1963

Eotetranychus mandensis Manson, 1963: 358–360.

Type host – *Citrus* sp.

Type locality – India.

Distribution – Karnataka.

Hosts – *Ziziphus jujuba*.

51. *Eotetranychus multidigituli* (Ewing, 1917)

Tetranychus multidigituli Ewing, 1917.

Eotetranychus multidigituli (Ewing, 1917). Gupta & Gupta, 1976.

Platytetranychus multidigituli Ewing, 1917.

Type host – *Gleditsia triacanthos*.

Type locality – United States.

Distribution – Gujarat. **Outside India** – USA.

Hosts – *Solanum melongena*.

52. *Eotetranychus nanningensis* Ma & Wang, 1981

Eotetranychus nanningensis in: Ma and Wang (1981): 337–341; Zeity *et al.* (2016a): 119–128.

Eotetranychus guajavae Gupta & Gupta, 1994.

Type host – *Psidium guajava*.

Type locality – China.

Distribution – Karnataka and West Bengal. **Outside India** – China and Hainan.

Host – *Psidium guajava*.

53. *Eotetranychus neoperplexus* Estebanes & Baker, 1968

Eotetranychus neoperplexus in: Estebanes and Baker (1968): 61–133; Sadana and Chhabra (1980): 104–109.

Type host – *Cryptocarya* sp.

Type locality – Mexico.

Distribution – Punjab. **Outside India** – Mexico and USA.

Hosts – *Bauhinia variegata*.

54. *Eotetranychus pamela* Manson, 1963

Eotetranychus pamela in: Manson (1963): 353; Gupta (1985): 76.

Type host – *Citrus* sp.

Type locality – India.

Distribution – Assam, Arunachal Pradesh, Himachal Pradesh and Tamil Nadu.

55. *Eotetranychus populi* (Koch, 1838)

Tetranychus populi Koch, 1838.

Eotetranychus populi (Koch, 1838). Rather, 1983: 26.

Type host – *Populus* sp.

Type locality – Germany.

Distribution – Jammu & Kashmir. **Outside India** – Armenia, Azerbaijan, China, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Kazakhstan, Korea, Netherland, Poland, Russia, Tajikistan, Türkiye, Ukraine, United Kingdom, USA, Uzbekistan, Serbia, and Montenegro.

Hosts – *Betula papyrifera*, *Robinia pseudoacacia*, *Hamamelis virginiana*, *Fraxinus* sp., *Syringa vulgaris*, *Elymus smithii*, *Prunus persica*, *Populus* sp., *Populus alba*, *Populus balsamifera*, *Populus deltoids*, *Populus fremontii*, *Populus gracilis*, *Populus nigra*, *Populus tremula*, *Populus x berolinensis*, *Populus x Canadensis*, *Populus x candicans*, *Populus x canescens*, *Salix* sp., *Salix alba*, *Salix babylonica*, *Salix discolor*, *Salix interior*; *Salix pierotii*; *Salix rosmarinifolia*, *Salix viminalis* and *Salix x fragilis*.

56. *Eotetranychus ranikhetensis* Gupta & Gupta, 1994

Eotetranychus ranikhetensis Gupta & Gupta, 1994: 80.

Type locality – India.

Distribution – Eastern himalayan region and Uttar Pradesh.

Host – Unknown.

57. *Eotetranychus rohila* Nassar & Ghai, 1981

Eotetranychus rohilae Nassar & Ghai, 1981: 355–357.

Type host – *Morus* sp.

Type locality – India.

Distribution – Delhi.

Host – *Morus* sp.

58. *Eotetranychus sexmaculatus* (Riley, 1890)

Tetranychus sexamaculatus Riley, 1890.

Eotetranychus sexmaculatus in: Pritchard and Baker (1955): 472; Tuttle and Baker (1964): 1–41; Gupta and Gupta (1977): 27–29; Gupta (1985): 77–78.

Type host – *Citrus* sp.

Type locality – United States.

Distribution – Assam, Gujarat, Karnataka, Meghalaya and Uttar Pradesh. **Outside India** – Australia, China, Iraq, Japan, Korea, New Zealand, Peru, Taiwan and USA.

Hosts – *Fragaria ananassa* and *Prunus persica*.

59. *Eotetranychus suginamensis* (Yokoyama, 1932)

Tetranychus suginamensis Yokoyama, 1932.

Eotetranychus suginamensis (Yokoyama) in: Pritchard and Baker (1955): 472; Nassar and Ghai (1981): 333–396.

Synonym

Tetranychus mori Rahman & Sapra, 1940.

Type host – *Morus alba*.

Type locality – Pakistan.

Distribution – Delhi, Punjab and West Bengal. **Outside India** – China, Japan, Pakistan and Taiwan.

Hosts – *Quercus serrata*, *Broussonetia papyrifera*, *Morus* sp., *Morus alba*, *Morus indica*, *Nyctanthes arbor-tristis* and *Casuarina tomentosa*.

60. *Eotetranychus syzygii* Gupta & Gupta, 1978

Eotetranychus syzygii Gupta & Gupta, 1978: 88.

Type host – *Syzygium cumini*.

Type locality – India.

Distribution – Madhya Pradesh.

Host – *Syzygium cumini*.

61. *Eotetranychus thailandicus* Ehara & Wongsiri, 1975

Eotetranychus thailandicus in: Ehara and Wongsiri (1975): 149–185; Zeity *et al.* (2016a): 119–128.

Type host – *Ficus* sp.

Type locality – Thailand. **Outside India** – Thailand.

Distribution – Karnataka.

Hosts – *Trema orientalis*.

62. *Eotetranychus truncates* Estebanes & Baker, 1968

Eotetranychus truncates in: Estebanes and Baker (1968): 61–133; Gupta and Dhooria (1972): 824–825.

Type host – *Helicteres guazumifolia*.

Type locality – Mexico.

Distribution – West Bengal and Punjab. **Outside India** – Mexico.

Hosts – *Vitis vinifera*.

63. *Eotetranychus uncatus* Garman, 1952

Eotetranychus uncatus in: Garman (1952): 263; Pritchard and Baker (1952): 263; Gupta (1985): 80; Gupta (1992): 61–211; Gupta and Gupta (1994): 1–196.

Synonym

Schizotetranychus exiguus Wainstein, 1956b.

Type host – *Malus domestica*.

Type locality – United States.

Distribution – Uttar Pradesh and West Bengal. **Outside India** – Canada, China, France, Iran, Japan, Kazakhstan, Mexico, Netherland, Praguay, Poland and USA.

Hosts – *Alnus* sp., *Alnus glutinosa*, *Alnus incana*, *Betula* sp., *Betula ermanii*, *Betula maximowicziana*, *Betula pendula*, *Betula pubescens*, *Carpinus caroliniana*, *Ostrya virginiana*, *Bauhinia variegata*, *Quercus dentata*, *Quercus palustris*, *Quercus petraea*, *Quercus robur*, *Juglans ailantifolia*, *Juglans regia*, *Tilia Americana*, *Tilia cordata*, *Tilia maximowicziana*, *Crataegus monogyna*, *Malus* sp., *Malus domestica*, *Prunus avium*, *Prunus cerasifera*, *Prunus cerasus*, *Prunus domestica*, *Prunus persica*, *Pyrus* sp., *Acer campestre*, *Acer negundo*, *Acer platanoides*, *Acer saccharum*, *Aesculus hippocastanum*, *Camellia sinensis*, *Ulmus laciniata* and *Vitis* sp.

64. *Eotetranychus weldoni* (Ewing, 1913)

Tetranychus weldoni Ewing, 1913.

Eotetranychus weldoni (Ewing) in: Pritchard and Baker (1955): 472; Rather (1983): 25–26; Gupta and Gupta (1994): 1–196.

Synonym

Tetranychus californicus McGregor, 1928.

Type host – *Populus fremontii*.

Type locality – United States.

Distribution – Jammu and Kashmir. **Outside India** – Iran, Serbia and USA

Hosts – *Malus domestica*, *Spiraea* sp. and *Populus fremontii*.

Genus *Hellenychus* Gutierrez

65. *Hellenychus umfoloziensis* Meyer, 1974

Hellenychus umfoloziensis in: Meyer (1974): 1–292; Karuppuchamy and Mohanasundaram (1988): 395–401.

Type host – *Panicum deustum*.

Type locality – South Africa.

Distribution – Tamil Nadu. **Outside India** – South Africa.

Hosts – *Rosa* sp.

Genus *Oligonychus* Berlese

66. *Oligonychus bambusae* Karuppuchamy & Mohanasundaram, 1988

Oligonychus bambusae Karuppuchamy & Mohanasundaram, 1988: 399.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Tamil Nadu and Uttar Pradesh.

67. *Oligonychus biharensis* (Hirst, 1925)

Paratetranychus biharensis Hirst, 1925.

Oligonychus biharensis (Hirst) in: Pritchard and Baker (1955): 472; Nassar and Ghai (1981): 333–396; Gupta and Gupta (1994): 1–196.

Type host – *Rosa* sp.

Type locality – India.

Distribution – Andaman Nicobar, Bihar, Delhi, Gujarat, Karnataka, Kerala, Tamil Nadu and West Bengal. **Outside India** – Antigua and Barbuda, Australia, Bangladesh, Brazil, China, France, Fiji, French Polynesia, Japan, Malaysia, Mauritius, Mexico, Papua New Guinea, Philippines, Samoa, Tiwan, Thailand, Tonga, South Africa and USA.

Hosts – *Acacia auriculiformis*, *Areca catechu*, *Cocos nucifera*, *Dodonia viscosa*, *Eriobotrya japonica*, *Ficus* sp., *Grivellia robusta*, *Manihot esculenta*, *Rosa indica*, *Shorea robusta*, *Solanum melongena* and *Theobroma cacao*.

68. *Oligonychus coffeae* (Nietner, 1861)

Acarus coffeae Nietner, 1861.

Oligonychus coffeae (Nietner) in: Pritchard and Baker (1955): 472; Das (1959): 265–274; Ghai (1964): 385–396; Gupta (1970: 98–99; 1985: 520); Meyer (1987): 1–175.

Synonyms

Paratetranychus bioculatus (Wood-Mason, 1884); Pritchard and Baker (1955).

Tetranychus bioculatus Wainstein, 1956a.

Oligonychus merwei Tucker, 1926.

Type host – *Coffea arabica*.

Type locality – Sri Lanka.

Distribution – Assam, Chhattisgarh, Delhi, Karnataka, Kerala, Himachal Pradesh, Madhya Pradesh, Meghalaya, Tamil Nadu and West Bengal.

Hosts – *Aristolochia* sp., *Camellia sinensis*, *Coffea arabica*, *Corchorus capsularis*, *C. olitorius*, *Croton* sp., *Citrus* sp., *Grevillea* sp., *Gossypium herbaceum*, *Litsea lacifolia*, *Mangifera indica*, *Melostoma malaliathricum*, *Moghanis macrophylla*, *Morus alba*, *Prunus persica*, *Ricinus communis*, *Syzgium cumini* (Blackberry) and *Urena lobata*.

69. *Oligonychus coniferarum* (McGregor, 1950)

Paratetranychus coniferarum McGregor, 1950.

Oligonychus coniferarum (McGregor, 1950) in: Zeity et al. (2016b): 416–430.

Type host – *Thuja occidentalis*.

Type locality – United States.

Distribution – Karnataka and Uttar Pradesh. **Outside India** – Australia, Honduras, Iran, Israel, Saudi Arabia, Syria, Türkiye, USA and Yemen.

Hosts – *Cupressus* sp. and *Thuja* sp.

70. *Oligonychus duncombei* Meyer, 1974

Oligonychus duncombei Meyer, 1974; Zeity et al. (2016b).

Type host – *Cynodon dactylon*.

Type locality – Zimbabwe.

Distribution – Karnataka. **Outside India** – Zimbabwe.

Hosts – *Poaceae* and *Cynodon dactylon*.

71. *Oligonychus grypus* Baker & Pritchard, 1960

Oligonychus (*Reckiella*) *grypus* Baker & Pritchard, 1960.

Type host – *Poaceae* sp. and *Saccharum officinarum*.

Type locality – Congo (RDC ex Zaire).

Distribution – Karnataka and Tamil Nadu. **Outside India** – Australia, Brazil, Cameroon, Congo, Cuba, Madagaskar, Malawi, Mozambique, Nigeria, Papua New Guinea, South Africa and Zimbabwe.

Hosts – *Sorghum bicolor*.

72. *Oligonychus indicus* (Hirst, 1923)

Paratetranychus indicus Hirst, 1923.

Oligonychus indicus (Hirst, 1923) in: Pritchard and Baker (1955): 472.

Type host – *Sorghum bicolor* and *Sorghum* sp.

Type locality – India and Pakistan.

Distribution – Andra Pradesh, Bihar, Delhi, Haryana, Karnataka, Madhya Pradesh, Meghalaya, Orissa, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – China, Kenya and Pakistan.

Hosts – *Areca catechu*, *Cocos nucifera*, *Cynodon dactylon*, *Dactyloctenium aegyptium*, *Dichanthum annulatum*, *Lusine egypticum*, *Musa sapientum*, *Oryza sativa*, *Panicum distachyum*, *P. javanicum*, *Poaceae* species, *Saccharum aurandinaceum*, *S. bicolor*, *S. helepenes*, *Sorghum* sp., *S. vulgare*, *Urochloa panicoides* and *zea mays*.

73. *Oligonychus iseilemae* (Hirst, 1924)

Paratetranychus iseilemae Hirst, 1924: 524.

Oligonychus iseilemae (Hirst, 1924) in: Pritchard and Baker (1955): 472.

Type host – *Iseilema laxum*.

Type locality – India.

Distribution – Andaman Nicobar, Andra Pradesh, Chhattisgarh, Madhya Pradesh and Tamil Nadu.

Hosts – *Cajanus cajan*, *Cocos nucifera*, *Iseilema Lxum* and *Poaceae* sp.

74. *Oligonychus mangiferus* (Rahman & Sapra, 1940)

Paratetranychus mangiferus Rahman & Sapra, 1940.

Oligonychus mangiferus (Rahman & Sapra, 1940) in: Pritchard and Baker (1955): 472.

Synonyms

Paratetranychus insularis McGregor, 1950.

Paratetranychus terminalis Sayed, 1946.

Oligonychus terminalis (Sayed, 1946). Zaher *et al.* 1984.

Type host – *Mangifera indica*.

Type locality – Pakistan.

Distribution – Bihar, Chhattisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Orissa, Punjab, Uttar Pradesh and West Bengal. **Outside India** –

Australia, Brazil, Chile, China, Egypt, El Salvador, France, Iran, Israel, Mauritius, Mozambique, Pakistan, Peru, South Africa, Taiwan, Thailand, USA and Yemen.

Hosts – *Acalypha wilkesiana*, *Arecaceae* sp., *Artocarpus integrifolia*, *Cassia fistula*, *Dimocarpus longan*, *Ficus carica*, *Ficus* sp., *Gardenia florida*, *Gardenia jasminoides*, *Lagerstroemia indica*, *L. thorelli*, *Litchi chinensis*, *Mangifera indica*, *Melia azadirachta*, *Musa paradisiaca*, *Pinus longifolia*, *Pinus* sp., *Prunus persica*, *Psidium guajava*, *Pyrus communis*, *Ricinus communis*, *Rosa cymosa*, *Rosa indica*, *Syzigium cumini* and *Vitis vinifera*.

75. *Oligonychus manishi* Gupta, 1979

Oligonychus manishi Gupta, 1979.

Type host – *Oryza sativa*.

Type locality – India.

Distribution – Andaman Nicobar.

76. *Oligonychus martensis* Meyer, 1974

Oligonychus martensis in: Meyer (1974): 263; Mondal and Gupta (2016): 108–111.

Type host – *Zea mays*.

Type locality – Zimbabwe.

Distribution – West Bengal.

Hosts – *Ficus carica* and *Aegle marmelos*.

77. *Oligonychus neotylus* Zeity & Srinivasa, 2016

Oligonychus neotylus in: Zeity and Srinivasa (2016): 417; Zeity *et al.* (2016b): 416–430.

Type host – *Pennisetum purpureum* and *Zea mays*.

Type locality – India.

Distribution – Karnataka.

78. *Oligonychus oryzae* (Hirst, 1926)

Paratetranychus oryzae Hirst, 1926.

Oligotetranychus oryzae (Hirst, 1926) in: Pritchard and Baker, 1955: 472.

Type host – *Oryza sativa*.

Type locality – India.

Distribution – Andaman Nicobar, Karnataka, Kerala, Orissa, Punjab, Tamil Nadu and West Bengal.

Outside India – Papua New Guinea, Thailand and Vietnam.

Hosts – *Bambusa* sp., *Bambusa vulgaris*, *Cynodon dactylon*, *Hordeum vulgare*, *Musa paradisiaca*, *Musa sapientum*, *Oryza sativa*, *Poacea* sp., *Setaria* sp., *Setaria verticillata* and *Zea mays*.

79. *Oligonychus plegas* Baker & Pritchard, 1960

Oligonychus plegas in: Baker and Pritchard (1960): 455–574; Srinivasa *et al.* (2021): 103.

Type host – *Cocos nucifera*.

Type locality – Mauritius.

Distribution – Karnataka. **Outside India** – Mauritius, Fiji, France, Papua New Guinea and Vanuatu.

Hosts – *Cocos nucifera*, *Carica papaya*, *Musa* sp., *Brachiaria mutica*, *Oryza sativa*, *Panicum maximum*, *Saccharum* sp. and *Zea mays*.

80. *Oligonychus ponmanaiensis* Karuppuchamy & Mohanasundaram, 1987

Oligonychus ponmanaiensis Karuppuchamy & Mohanasundaram, 1987: 91.

Type host – *Bauhinia* sp. and *Hevea brasiliensis*.

Type locality – India.

Distribution – Tamil Nadu.

81. *Oligonychus punicae* (Hirst, 1926)

Paratetranychus punicae Hirst, 1926.

Oligotetranychus punicae (Hirst, 1926) in: Pritchard and Baker (1955): 472.

Synonyms

Paratetranychus coiti McGregor, 1941.

Oligonychus viridis (Banks) Beer & Lang, 1958. Zaher *et al.* (1982).

Type host – *Punica granatum* and *Vitis vinifera*.

Type locality – India

Distribution– Andra Pradesh, Bihar, Delhi, Haryana, Karnataka, Meghalaya, Orissa, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal. **Outside India** – Australia, Brazil, Chile, Peru, China, Colombia, Costa Rica, Cuba, El Salvador, Egypt, France, Guatemala, Honduras, Iran, Mexico, Nicaragua, Panama, Peru, Saudi Arabia, USA and Venezuela.

Hosts – *Andropogon sorghum*, *Areca catechu*, *Cocos nucifera*, *Cynodon dactylon*, *Dichanthum annulatum*, *Eucalyptus* sp., *Flagaria* sp., *Lusine egypticum*, *Musa sapientum*, *Oryza sativa*, *Panicum distachyum*, *P. javanicum*, *Persea Americana*, *Saccharum arundinaceum*, *S. munja*, *S. officinarum* and *Sorghum vulgare*.

82. *Oligonychus sacchari* (McGregor, 1942)

Paratetranychus sacchari McGregor, 1942.

Oligonychus sacchari (McGregor) in: Gupta (1976): 327–351.

Type host – *Saccharum officinarum*.

Type locality – Puerto Rico (USA).

Distribution – Assam, Gujarat, Madhya Pradesh, Orissa and West Bengal. **Outside India** – Brazil, Cuba, Fiji, France, French, Iran, Mozambique, Netherlands Antilles, Polynesia, Thailand, USA, Vanuatu and Venezuela.

Hosts – *Bambusa aurandinacea*, *Bambusa bambos*, *Bambusa* sp. and *Saccharum officinarum*

83. *Oligonychus sapienticolus* Gupta, 1976

Oligonychus sapienticolus Gupta, 1976.

Type host – *Musa paradisiaca*.

Type locality – India.

Distribution – West Bengal.

84. *Oligonychus thelytokus* Gutierrez, 1977

Oligonychus thelytokus in: Gutierrez (1977): 65–72; Majeed *et al.* (2022): 888–896.

Type host – *Azalea* sp., *Bauhinia* sp., *Calophyllum inophyllum*, *Cleidion* sp., *Combretum indicum*, *Cotoneaster* sp., *Cryptocarya* sp., *Delonix regia*, *Dysoxylum* sp., *Flemingia strobilifera*, *Gossypium hirsutum*, *Ichnocarpus frutescens*, *Litchi chinensis*, *Mangifera*

indica, *Manihot esculenta*, *Persea americana*, *Piper nigrum*, *Plumeria alba*, *Punica granatum*, *Rosa* sp., *Syzygium cumini*, *Terminalia catappa* and *Veitchia* sp.

Type locality – Comoros, Madagascar, New Caledonia (France), Reunion (France) and Seychelles.

Distribution – Karnataka. **Outside India** – Comoros, Congo, France, French, Polynesia, Indonesia, Ivory Coast, Japan, Madagascar, Papua New Guinea and Seychelles.

Hosts – *Caloncoba welwitschii*, *Mangifera indica*, *Alstonia scholaris*, *Pachycarpus lineolatus*, *Plumeria alba*, *Acanthophoenix* sp., *Veitchia* sp., *Calophyllum inophyllum*, *Combretum indicum*, *Terminalia catappa*, *Azalea* sp., *Cleidion* sp., *Manihot esculenta*, *Bauhinia* sp., *Delonix regia*, *Flemingia* sp., *Cryptocarya* sp., *Persea Americana*, *Lagerstroemia indica*, *Punica granatum*, *Gossypium hirsutum*, *Dysoxylum* sp., *Syzygium cumini*, *Syzygium jambos*, *Bridelia ferruginea*, *Piper nigrum*, *Cotoneaster* sp., *Eriobotrya japonica*, *Fragaria x ananassa*, *Rosa* sp., *Coffea* sp., *Coffea congensis*, *Citrus* sp. and *Litchi chinensis*.

85. *Oligonychus tylus* Baker & Pritchard, 1960

Oligonychus tylus Baker & Pritchard, 1960: 525.

Type host – *Panicum maximum*.

Type locality – Mauritius.

Distribution – Gujarat, Karnataka, Maharashtra and Tamil Nadu. **Outside India** – Mauritius, Israel and Soudia Arabia.

Hosts – *Areca catechu*, *Brachiaria mutica*, *Eleusine coracana*, *Musa sapientum*, *Oryza sativa*, *Setaria italic* and *Zea mays*.

86. *Oligonychus vitis* Zaher & Shehata, 1965

Oligonychus vitis in: Zaher and Shehata (1965): 67–69; Nassar and Ghai (1981): 333–396.

Type host – *Vitis vinifera*.

Type locality – Egypt.

Distribution – Delhi and Karnataka. **Outside India** – Chile, Egypt, France, Madagascar and South Africa.

Hosts – *Mangifera indica*, *Acanthophoenix* sp., *Lauraceae* sp., *Persea americana*, *Lawsonia inermis*, *Eucalyptus* sp., *Heteropyxis natalensis*, *Cotoneaster* sp., *Pyracantha* sp., *Rosa* sp. and *Vitis vinifera*.

Genus *Panonychus* Yokoyama

87. *Panonychus citri* (McGregor, 1916)

Tetranychus citri McGregor, 1916: 286.

Metatetranychus citri in: Pritchard and Baker (1955): 472; Gupta (1970): 98–99.

Panonychus citri in: Ehara (1956); Bindra (1966).

Synonyms

Paratetranychus mytilaspidis (Banks, 1900) in: Pritchard and Baker (1955): 472.

Type host – *Citrus* sp.

Type locality – United States.

Distribution – Andaman Nicobar, Assam, Himachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Punjab, Tripura, Uttar Pradesh and West Bengal. **Outside India** – Argentina, Australia, Bermuda, Brazil, Bulgaria, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cuba, Dominican Republic, Finland, France, Georgia, Greece, Honduras, Hungary, Indonesia, Iran, Israel, Italy, Ivory Coast, Japan, Korea, Lebanon, Libya, Malaysia, Mexico, Morocco, Mozambique, Nepal, Netherlands, New Zealand, Pakistan, Panama, Papua New Guinea, Peru, Philippines, Portugal,

Russia, Serbia, South Africa, Spain, Sri Lanka, Switzerland, Syria, Taiwan, Thailand, Tunisia, Türkiye, USA, United Kingdom, Venezuela, Vietnam, Yemen and Yugoslavia.

Hosts – *Artocarpus integrifolia*, *Carica papaya*, *Chrysanthemum coronarium*, *Citrus aurantium*, *Citrus* sp., *Cracillia bracteata*, *Malus domestica*, *Morus alba*, *Musa sapientum* and *Prunus persica*.

88. *Panonychus elongatus* Manson, 1963

Panonychus elongatus in: Manson (1963): 51–364; Zeity *et al.* (2016a): 119–128.

Type host – *Citrus* sp.

Type locality – Myanmar (Burma) and Thailand.

Distribution – Sikkim. **Outside India** – Australia, China, Myanmar, Papua New Guinea, Taiwan and Thailand.

Host – *Rosa* sp.

89. *Panonychus ulmi* (Koch, 1836)

Tetranychus ulmi Koch, 1836.

Oligonychus ulmi in: Hirst (1920): 49–60.

Metatetranychus ulmi in: Pritchard and Baker (1955): 472.

Panonychus ulmi in: Wainstein (1960): 214–226; Meyer (1974): 1–292; Prasad (1975d): 18–25.

Synonyms

Oligonychus alni Oudemans, 1929.

Metatetranychus alni (Oudemans, 1929) in: Pritchard and Baker (1955): 472.

Metatetranychus alboguttatus (Zacher, 1913) in: Pritchard and Baker (1955): 472.

Metatetranychus canestrinii Oudemans, 1939.

Oligonychus muscorum Oudemans, 1929.

Tetranychus pilosus Canestrini & Fanzago, 1876.

Metatetranychus pilosus (Canestrini & Fanzago, 1876) in: Reck (1950): 117–134.

Paratetranychus pilosus alboguttatus Zacher, 1913.

Oligonychus potentillae Oudemans, 1929.

Metatetranychus potentillae (Oudemans, 1929) in: Pritchard and Baker (1955): 472.

Type host – *Ulmus* sp.

Type locality – Germany.

Distribution – Jammu Kashmir, Himachal Pradesh, Meghalaya, Uttar Pradesh and West Bengal.

Outside India – Algeria, Argentina, Armenia, Australia, Austria, Azerbaijan, Belarus, Belgium, Bermuda, Brazil, Bulgaria, Canada, Chile, China, Costa Rica, Czech Republic, Czechoslovakia, Denmark, Egypt, Finland, France, Georgia, Germany, Greece, Hungary, Iran, Ireland, Israel, Italy, Japan, Kazakhstan, Korea, Latvia, Lebanon, Libya, Lithuania, Moldova, Morocco, Netherlands, New Zealand, Norway, Palestinian Territories, Poland, Portugal, Romania, Russia, Serbia, South Africa, Spain, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Tunisia, Türkiye, Ukraine, United Kingdom, United states, Uruguay, Uzbekistan, Venezuela, Vietnam, Serbia, and Montenegro.

Hosts – *Artocarpus integrifolia*, *Chrysanthemum coronarium*, *Ficus carica*, *Hibiscus* sp., *Juglans* sp., *Lycopersicum esculentum*, *Morus alba*, *Prunus armeniaca*, *P. communis*, *P. domestica*, *P. persica*, *Rosa indica* and *Triticum aestivum*.

Genus *Schizotetranychus* Tragardh

90. *Schizotetranychus andropogoni* Hirst, 1926

Tetranychus (*Schizotetranychus*) *andropogoni* Hirst, 1926.

Schizotetranychus andropogoni in: Pritchard and Baker (1955): 472; Gupta and Gupta (1994): 1–196.

Type host – *Dichanthium annulatum*.

Type locality – India.

Distribution – Bihar, Chhattisgarh, Delhi, Gujarat, Haryana, Karnataka, Kerala, Madhya Pradesh, Orissa, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – Mexico, Pakistan and Thailand.

Hosts – *Cajanus cajan*, *Cajanus indicus*, *Cyrtococcum* sp., *Chloris incomplata*, *Dichanthium annulatum*, *Oryza sativa*, *Saccharum officinarum*, *S. spontaneum* and *Zinnia* sp.

91. *Schizotetranychus approximatus* Ehara, 1988

Schizotetranychus approximatus in: Ehara and Tho (1988): 1–24; Srinivasa *et al.* (2021): 379–383.

Type host – *Bambusa vulgaris*.

Type locality – Malaysia.

Distribution – Karnataka. **Outside India** – Malaysia and Thailand.

Hosts – *Bambusa* sp. and *Thyrsostachys siamensis*.

92. *Schizotetranychus asparagi* (Oudemans, 1928)

Epitetranychus asparagi Oudemans, 1928: 288.

Schizotetranychus asparagi (Oudemans, 1928) in: Oudemans (1931a): 289–293.

Schizotetranychus asparagi (Oudemans, 1928) in: Zeity *et al.* (2016a): 119–128.

Synonyms

Divarinychus floridensis McGregor, 1930.

Schizotetranychus floridensis (McGregor, 1930)

Type host – *Asparagus aethiopicus*.

Type locality – Netherlands.

Distribution – Karnataka. **Outside India** – Australia, Germany, Israel, Malawi, Morocco, Netherlands, Portugal, South Africa, USA and Zimbabwe.

Hosts – *Asparagus* sp., *Asparagus aethiopicus*, *Asparagus africanus*, *Asparagus capensis*, *Asparagus larinicus*, *Asparagus officinalis*, *Asparagus*, *Asparagus suaveolens*, *Asparagus virgatus*, *Ananas* sp., *Acacia* sp. and *Acacia karroo*.

93. *Schizotetranychus baltazarai* Rimando, 1962

Schizotetranychus baltazarai in: Rimando (1962): 535–544; Manson (1963): 351–364.

Type locality – Philippines.

Distribution – Assam, Karnataka, Madhya Pradesh, Punjab, Tamil Nadu and West Bengal. **Outside India** – China, Indonesia, Myanmar, Papua New Guinea, Philippines, Taiwan and Thailand.

Hosts – *Azadirachta indica*, *Citrus japonica*, *C. maxima*, *C. medica*, *C. sinensis*, *Citrus* sp. and *Murraya koenigii*.

94. *Schizotetranychus cajani* Gupta, 1976

Schizotetranychus cajani Gupta, 1976

Type host – *Cajanus cajan*.

Type locality – India.

Distribution – Andhra Pradesh, Bihar, Gujarat, Punjab and West Bengal.

95. *Schizotetranychus chiangmaiensis* Ehara & Wongsiri, 1975

Schizotetranychus chiangmaiensis in: Ehara and Wongsiri (1975): 149–185; Zeity *et al.* (2016a): 119–128.

Type host – *Calotropis gigantea*.

Type locality – Thailand.

Distribution – Karnataka. **Outside India** – Thailand.

Hosts – *Calotropis* sp., *Calotropis gigantea*, *Wrightia arborea*, *Wrightia tinctoria* and *Flueggea leucopyrus*.

96. *Schizotetranychus fluvialis* McGregor, 1928

Schizotetranychus fluvialis in: McGregor (1928): 11–15; Gupta (1976): 327–351.

Type host – *Sporobolus rigens*.

Type locality – United States.

Distribution – Kerala, Punjab and Tamil Nadu. **Outside India** – USA.

Hosts – *Cajanus cajan*, *Aristida adscensionis* and *Sporobolus rigens*.

97. *Schizotetranychus hindustanicus* (Hirst, 1924)

Tetranychus (*Schizotetranychus*) *hindustanicus* Hirst, 1924: 525.

Schizotetranychus hindustanicus (Hirst, 1924) in: Pritchard and Baker (1955): 472.

Type host – *Citrus* sp.

Type locality – India.

Distribution – Kerala, Madhya Pradesh, Tamil Nadu and West Bengal. **Outside India** – Brazil, Iran and Venezuela.

Hosts – *Acacia* sp., *Citrus* sp., *Melia azedarach* and *Sorghum bicolor*.

98. *Schizotetranychus indicus* Gupta & Gupta, 1994

Schizotetranychus indicus Gupta & Gupta, 1994: 92.

Type host – *Bambusa* sp.

Type locality – India.

Distribution – Meghalaya.

Host – *Bambusa* sp.

99. *Schizotetranychus kochummeni* Ehara, 1988

Schizotetranychus kochummeni in: Ehara and Tho (1988): 1–24; Zeity *et al.* (2016a): 119–128.

Type host – *Bambusa* sp.

Type locality – Malaysia.

Distribution – Karnataka. **Outside India** – Malaysia.

Host – *Bambusa* sp.

100. *Schizotetranychus krungthepensis* Auger & Naing, 2014

Schizotetranychus krungthepensis in: Auger and Naing (2014): 257–275; Mahesh *et al.* (2021): 1–8.

Type host – *Saccharum officinarum*.

Type locality – Thailand.

Distribution – Andhra Pradesh, Gujarat, Karnataka, Kerala, Punjab, Tamil Nadu and West Bengal.

Outside India – Malaysia.

Host – *Saccharum officinarum*.

101. *Schizotetranychus laevidorsatus* Ehara, 1988

Schizotetranychus laevidorsatus in: Ehara and Tho (1988): 1–24; Zeity *et al.* (2016a): 119–128.

Type host – *Bambusa* sp. and *Gigantochloa levis*.

Type locality – Malaysia.

Distribution – Karnataka and Kerala. **Outside India** – Malaysia and Thailand.

Hosts – *Bambusa* sp., *Bambusa vulgaris*, *Gigantochloa* sp. and *Gigantochloa levis*.

102. *Schizotetranychus lespedezae* Beglyarov & Mitrofanov, 1973

Schizotetranychus lespedezae in: Beglyarov and Mitrofanov (1973): 16–22; Zeity *et al.* (2016a): 119–128.

Type locality – Russia (Eastern).

Distribution – Karnataka and Tamil Nadu.

Hosts – *Bauhinia* sp., *Cajanus cajan*, *Gliricidia* sp. and *Pongamia* sp.

Outside India – China, Japan, Korea, Russia and Taiwan.

103. *Schizotetranychus masoni* Gupta, 1980

Schizotetranychus masoni Gupta, 1980: 113.

Type host – *Oryza sativa*.

Type locality – India.

Distribution – Andaman Nicobar and Arunachal Pradesh.

104. *Schizotetranychus recki* Ehara, 1957

Schizotetranychus recki in: Ehara (1957): 5–23; Vibija and Ramani (2021): 343–352.

Type host – *Sasa senanensis*.

Type locality – Japan.

Distribution – Kerala. **Outside India** – Japan.

Hosts – *Bambusa* sp.

105. *Schizotetranychus reticulatus* Baker & Pritchard, 1960

Schizotetranychus reticulatus in: Baker and Pritchard (1960): 455–574; Zeity *et al.* (2016a): 119–128.

Synonym

Rigiotetranychus reticulatus (Baker & Pritchard, 1960) in: Tseng (1990).

Type host – *Grewia* sp.

Type locality – Congo (RDC ex Zaire).

Distribution – Karnataka. **Outside India** – Comoros, Congo and Madagascar.

Hosts – *Grewia* sp., *Grewia andramparo*, *Grewia botryantha*, *Grewia bracteata*, *Grewia lavanalensis* and *Grewia triflora*.

106. *Schizotetranychus schizopus* (Zacher, 1913)

Tetranychus schizopus Zacher, 1913 : 40.

Schizotetranychus schizopus (Zacher, 1913) in: Vibija and Ramani (2021): 343–352.

Type host – *Salix* sp.

Type locality – Germany.

Distribution – Kerala.

Hosts – *Bambusa* sp.

Outside India – Armenia, Azerbaijan, China, Georgia, Germany, Hungary, Iran, Italy, Japan, Netherlands, Poland, Russia, Switzerland, Ukraine and United Kingdom.

107. *Schizotetranychus spiculus* Baker & Pritchard, 1960

Schizotetranychus spiculus in: Baker and Pritchard (1960): 455–574; Karuppuchamy and Mohanasundaram (1987): 89–94.

Type host – *Citrus* sp.

Type locality – Kenya.

Distribution – Tamil Nadu. **Outside India** – Kenya.

Hosts – *Murraya koenigii*.

108. *Schizotetranychus spireafolia* Garman, 1940

Schizotetranychus spireafolia in: Garman (1940): 67–88; Gupta and Dhooria (1974): 69.

Type host – *Spiraea latifolia*.

Type locality – United States.

Distribution – Andhra Pradesh, Bihar, Gujarat, Punjab and West Bengal. **Outside India** – China, Poland and USA.

Hosts – *Saccharum officinarum*.

109. *Schizotetranychus tephrosiae* Gutierrez, 1968

Schizotetranychus tephrosiae in: Gutierrez (1968): 3–28; Nassar and Ghai (1981): 333–396.

Type host – *Tephrosia striata*.

Type locality – Madagascar.

Distribution – Delhi. **Outside India** – Madagascar and South Africa.

Hosts – *Eriobatrya japonica*.

110. *Schizotetranychus undulates* (Beer & Lang, 1958)

Neotetranychus undulatus Beer & Lang, 1958: 1239.

Schizotetranychus undulatus (Beer & Lang) in: Tuttle and Baker (1976): 1–102; Sadana *et al.* (1981): 325–327.

Type host – *Beaucarnea stricta*.

Type locality – Mexico.

Distribution – Punjab.

Hosts – *Acacia Arabica* and *Jasminum grandiflorum*.

Outside India – Mexico.

Genus *Stigmaeopsis* Banks

111. *Stigmaeopsis longus* Saito, 1990

Schizotetranychus longus Saito, 1990: 392.

Stigmaeopsis longus in: Saito (1990): 389–396; Vibija and Ramani (2021): 343–352.

Type host – *Sasa senanensis* and *Sasa* sp.

Type locality – Japan.

Distribution – Kerala. **Outside India** – Japan and United States.

Hosts – *Bambusa* sp.

112. *Stigmaeopsis meghalayensis* (Gupta & Gupta, 1994)

Schizotetranychus meghalayensis Gupta & Gupta, 1994: 96.

Stigmaeopsis meghalayensis (Gupta & Gupta) in: Flechtmann (2012): 87–95.

Type host – *Bambusa vulgaris*.

Type locality – India.

Distribution – Meghalaya.

Genus *Tetranychus* Dufour

113. *Tetranychus afrindicus* Nassar & Ghai, 1981

Tetranychus afrindicus Nassar & Ghai, 1981: 367.

Type host – *Phaseolus* sp.

Type locality – India.

Distribution – Delhi.

114. *Tetranychus angolensis* Meyer, 1974

Tetranychus angolensis in: Meyer (1974): 1–292; Nassar and Ghai (1981): 333–396.

Type host – *Elaeis guineensis*.

Type locality – Angola.

Distribution – Delhi. **Outside India** – Angola.

Hosts – *Elaeis guineensis*, *Cucurbita* sp. and *Cucurbita maxima*.

115. *Tetranychus bambusae* Wang & Ma, 1981

Tetranychus bambusae in: Wang and Ma (1981): 337–341; Zeity *et al.* (2016b): 416–430.

Type host – *Bambusa* sp.

Type locality – China (Oriental) and Hainan (China).

Distribution – Karnataka. **Outside India** – Bangladesh, China and Japan.

Hosts – *Bambusa bambos* and *Bambusa* sp.

116. *Tetranychus bellottii* Flechtmann, 1981

Tetranychus bellottii Flechtmann, 1981: 84.

Type host – *Manihot* sp.

Type locality – India.

Distribution – Kerala.

117. *Tetranychus fijiensis* Hirst, 1924

Tetranychus fijiensis Hirst, 1924: 523.

Type host – *Cocos nucifera*.

Type locality – Fiji.

Distribution – Andaman Nicobar Island, Assam, Karnataka, Kerala, West Bengal and Tamil Nadu.

Outside India – Australia, China, France, Fiji, Kiribati, Marshall Islands, Malaysia, Micronesia, Federated States, Papua New Guinea, Philippines, Seychelles, Taiwan, Thailand and USA.

Hosts – *Arachis hypogaea*, *Areca catechu*, *Carica papaya*, *Citrus aurantium*, *Cocos nucifera*, *Elettaria cardomomum*, *Ficus recemosa*, *Holoptelea integrifolia*, *Mangifera indica*, *Morus indica*, *Ricinus communis* and *Zea mays*.

118. *Tetranychus gloveri* Banks, 1900

Tetranychus gloveri Banks, 1900: 76.

Tetranychus okinawanus Ehara, 1995; Zeity *et al.* (2016b).

Type host – *Ipomoea batatas*, *Phaseolus vulgaris*, *Pueraria montana* and *Solanum nigrum*.

Type locality – Nansei-shoto (Japan).

Distribution – Kerala and Karnataka. **Outside India** – Japan and Taiwan.

Hosts – *Abelmoschus esculentus*, *Alocasia* sp., *Althaea nudiflora*, *Amaranthus viridis*, *Arachis hypogaea*, *Asclepias curassavica*, *Andropogon* sp., *Bauhinia* sp., *Canavalia* sp., *Centella asiatica*, *Citrullus lanatus*, *Crepidiastrum lanceolatum*, *Crotalaria juncea*, *Cucumis melo*, *C. sativus*, *Cynara cardunculus*, *Daucus carota*, *Eichhornia crassipes*, *Glycine max*, *Hibiscus mutabilis*, *H. rosasinensis*, *Ipomoea biflora*, *Ipomoea cairica*, *Ipomoea grandifolia*, *Lablab purpureus*, *Medicago lupulina*, *Melanthera biflora*, *Melochia corchorifolia*, *Miscanthus* sp., *Morus alba*, *Perilla frutescens*, *Peucedanum japonicum*, *Phaseolus vulgaris*, *Phyllanthus amarus*, *Piper retrofractum*, *Sambucus chinensis*, *Setaria* sp., *Solanum americanum*, *Solanum lycopersicum*, *Solanum melongena*, *Solanum nigrum*, *Sonchus* sp., *Tagetes* sp., *Thunbergia alata*, *Vigna angularis*, *Vigna marina*, *Vigna radiata*, *Vigna unguiculata* and *Zea mays*.

119. *Tetranychus hirsutus* Zeity & Srinivasa, 2016

Tetranychus hirsutus in: Zeity and Srinivasa (2016): 421; Zeity *et al.* (2016b): 416–430.

Type host – *Gymnema sylvestre*.

Type locality – India.

Distribution – Karnataka.

120. *Tetranychus hypogaeae* Gupta, 1976

Tetranychus hypogaeae Gupta, 1976: 347.

Type host – *Arachis hypogaea*.

Type locality – India.

Distribution – West Bengal.

Hosts – *Arachis hypogaea*, *Chrysanthemum* sp. and *Helianthus annuus*.

121. *Tetranychus kanzawai* Kishida, 1927

Tetranychus kanzawai in: Kishida (1927): 105–107; Gupta and Gupta (1994): 1–196.

Synonyms

Tetranychus hydrangeae Pritchard & Baker, 1955.

Tetranychus japonicus Hotta, 1928.

Type host – *Morus alba*.

Type locality – Japan. **Outside India** – Australia, China, Colombia, Congo, Greece, Indonesia, Iran, Ivory Coast, Japan, Korea, Malaysia, Mexico, Netherlands, Papua New Guinea, Philippines, Singapore, South Africa, Taiwan, Thailand, United States and Vietnam.

Distribution – Delhi and Karnataka.

Hosts – *Prunus armeniaca* and *Prunus persica*.

122. *Tetranychus lombardinii* Baker & Pritchard, 1960

Tetranychus lombardinii Baker & Pritchard, 1960: 551.

Type host – *Gossypium* sp. and *Spinacia oleracea*.

Type locality – Kenya, Mozambique and Zimbabwe.

Distribution – Assam and Karnataka. **Outside India** – Australia, Benin, Congo, France, Indonesia, Kenya, Madagascar, Malawi, Mozambique, Namibia, South Africa, Zambia and Zimbabwe.

Hosts – *Gossypium herbaceum*, *Indigofera intybus*, *Jasminum auriculatum*, *J. grandiflorum*, *J. multiflorum* and *J. sambac*.

123. *Tetranychus ludeni* Zacher, 1913

Tetranychus ludeni in: Zacher (1913): 37–41; Puttarudriah and Channabasavanna (1959): 530–539.

Synonyms

Septanychus deviatarsus McGregor, 1950.

Tetranychus deviatarsus McGregor, 1950; Pritchard and Baker (1955).

Tetranychus salviae Oudemans, 1931b.

Type host – *Cucurbita* sp. and *Salvia splendens*.

Type locality – Germany.

Distribution – Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Karnataka, Kerala, Maharashtra, Meghalaya, Orissa, Punjab, Tamil Nadu, Tripura, Uttar Pradesh and West Bengal.

Outside India – 53 different countries recorded from Afrotropical, Australasian, Nertic, Neotropical, Oriental and Palearctic zones.

Hosts – *Abelmoschus esculentus*, *Abutilon indicum*, *Cajanus cajan*, *Citrullus lanatus*, *Citrus* sp., *Coccinea indica*, *Convolvulus* sp., *Cosmos* sp., *Cucumis melo*, *Cucumis sativus*, *Cucurbita maxima*, *Dahlia* sp., *Dolichus biflorus*, *D. lablab*, *Glycine max*, *Gossypium herbaceum*, *G. hirsutum*, *Hibiscus rosasinensis*, *Jasminum sambac*, *Lablab niger* var *lignosus*, *L. niger* var *typicus*, *Lantana camara*, *Leucas aspera*, *Luffa acutangula*, *Lycopersicum esculentum*, *Ocimum sanctum*, *Parthenium hysterophorus*, *Ricinus communis*, *Sechium edule*, *Shorea robusta*, *Solanum melongena*, *Vigna radiata*, *V. sinensis*, *V. unguiculata* and *Zinnia* sp.

124. *Tetranychus macfarlanei* Baker & Pritchard, 1960

Tetranychus macfarlanei in: Baker and Pritchard (1960): 455–574; Bindra and Kittur (1961): 71.

Type host – *Abelmoschus esculentus*, *Cucumis sativus*, *Cucurbita* sp., *Hibiscus* sp. and *Phaseolus* sp.

Type locality – India, Mauritius.

Distribution – Andaman Nicobar Island, Chhattisgarh, Delhi, Gujarat, Karnataka, Kerala, Madhya Pradesh, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – Bangladesh, China, Madagascar, Malaysia, Mauritius, Philippines, Spain and Thailand.

Hosts – *Abelmoschus esculentus*, *Arachis hypogaea*, *Cajanus cajan*, *Calopogonium mucunoides*, *Chenopodium murale*, *Clerodendron inerme*, *Cocculus hirsutus*, *Crotalaria juncea*, *Cucumis sativus*, *Cucurbita maxima*, *C. pepo*, *Curcuma longa*, *Dahlia* sp., *Dolichus lablab*, *Glycine max*, *G. soja*, *Gossypium herbaceum*, *Ipomoea reptans*, *Lablab purpureus* var *lignosus*, *L. purpureus* var *typicus*, *Lagenaria vulgaris*, *Leucas* sp., *Leucas aspera*, *Luffa* sp., *Morus indica*, *Operlina turpethum*, *Phaseolus vulgaris*, *Sechium edule*, *Shorea robusta*, *Solanum melongena*, *Vigna mungo*, *V. radiata* and *V. unguiculata*.

125. *Tetranychus marianae* McGregor, 1950

Tetranychus marianae in: McGregor (1950): 257–420; Zeity *et al.* (2016b): 416–430.

Type host – *Argyreia* sp. and *Passiflora foetida*.

Type locality – Marianas Northern (USA).

Distribution – Karnataka and Kerala. **Outside India** – Argentina, Australia, Bahamas, Brazil, Colombia, Costa Rica, Cuba, Fiji, France, Honduras, Marshall Islands, Mexico, Morocco, Nicaragua, Papua New Guinea, Philippines, Samoa, Seychelles, Solomon Islands, Thailand, United States, Vanuatu and Vietnam.

Hosts – *Centrosema pubescens*.

126. *Tetranychus neocaledonicus* André, 1933

Eotetranychus neocaledonicus André, 1933: 302.

Tetranychus neocaledonicus Prasad, 1974; Nassar and Ghai (1981); Gupta and Gupta (1994).

Synonyms

Tetranychus cucurbitae Rahman & Sapra, 1940.

Tetranychus equatorius Khot & Patel, 1956.

Type host – *Gossypium* sp.

Type locality – Brazil and New Caledonia (France).

Distribution – Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Punjab, Rajasthan, Uttar Pradesh and West Bengal. **Outside India** – Worldwide.

Hosts – *Abelmoschus esculentus*, *Acalypha wilkesiana*, *Althea Rosea*, *Amaranthus viridis*, *Andropogon sorghum*, *Benincasa cerifera*, *Bidens pilosa*, *Brassica campestris*, *Brassica juncea*, *B. oleracea*, *Cajanus cajan*, *Carica papaya*, *Cassia tora*, *Chrysanthemum* sp., *Citrus limetta*, *Coriandrum sativum*, *Crotalaria juncea*, *Crossandra undulataefolia*, *Cucumis sativus*, *Cucurbita maxima*, *Cyperus* sp., *Dodonaea biflorus*, *Dodonaea viscosa*, *Elettaria cardamomum*, *Eragrostis* sp., *Eruca sativa*, *Euphorbia hirta*, *Ficus carica*, *Gladiolus* sp., *Glycine soja*, *Gossypium herbaceum*, *G. hirsutum*, *Holmskioldia sanguinea*, *Ipomoea* sp., *Jasminum* sp., *Mangifera indica*, *Manihot esculenta*, *Medicago sativa*, *Melia dubia*, *Morus alba*, *Morus indica*, *Oscimum santum*, *Ricinus communis*, *Rosa indica*, *Santhalam album*, *Solanum lycopersicum*, *Solanum melongena*, *Solanum tuberosum*, *Tagetes putula*, *Vigna sinensis*, *Vitis vinifera* and *Zea mays*.

127. *Tetranychus papayae* Nassar & Ghai, 1981

Tetranychus papayae Nassar & Ghai, 1981: 375.

Type host – *Carica papaya*.

Type locality – India.

Distribution – Delhi.

128. *Tetranychus puschelii* Meyer, 1974

Tetranychus puschelii in: Meyer (1974): 1–292; Sadana and Gupta (1983): 1–6; Gupta and Gupta (1994): 1–196; Zeity *et al.* (2017): 467–476.

Type host – *Cephalocroton mollis* and *Sida chrysantha*.

Type locality – South Africa.

Distribution – Assam, Karnataka, Kerala and West Bengal.

Hosts – *Capsicum annuum*, *Morus indica*, *Solanum melongena* and *Urena lobata*.

Outside India – South Africa.

129. *Tetranychus sayedi* Baker & Pritchard, 1960

Tetranychus sayedi in: Baker and Pritchard (1960): 455–574; Nassar and Ghai (1981): 333–396.

Type host – *Manihot esculenta*.

Type locality – Congo (RDC ex Zaire).

Distribution – Delhi and West Bengal.

Hosts – *Morus alba* and *Solanum melongena*.

130. *Tetranychus taiwanicus* Ehara, 1969

Tetranychus taiwanicus in: Ehara (1969): 95; Kowsika *et al.* (2018): 150–161.

Type host – *Pandanus odorifer*.

Type locality – Taiwan.

Distribution – Tamil Nadu. **Outside India** – China, Taiwan and Thailand.

Hosts – *Citrus reticulata* and *Citrus* sp.

131. *Tetranychus truncatus* Ehara, 1956

Tetranychus truncatus in: Ehara (1956): 499–510; Sreenivasa *et al.* (2012): 379–383.

Type host – *Morus alba*.

Type locality – Japan.

Distribution – Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala and West Bengal. **Outside India** – Bangladesh, China, Indonesia, Iran, Japan, Korea, Philippines, Taiwan, Thailand, USA and Vietnam.

Hosts – *Dahlia* sp., *Morus indica*, *Solanum melongena* and *Zea mays*.

132. *Tetranychus turkestanii* (Ugarov & Nikolski, 1937)

Tetranychus turkestanii in: Ugarov & Nikolskii (1937): 28; Sreenivasa *et al.* (2014): 61–62.

Type host – *Abutilon theophrasti*, *Acacia*, *Alchemilla vulgaris*, *Arctium lappa*, *Atriplex*, *Citrullus lanatus*, *Convolvulus arvensis*, *Cucumis melo*, *Cucumis sativus*, *Cucurbita* sp., *Cydonia oblonga*, *Datura stramonium*, *Gossypium* sp., *Humulus lupulus*, *Ipomoea*, *Malva*, *Medicago sativa*, *Mentha* sp., *Morus* sp., *Phaseolus vulgaris*, *Prunus avium*, *Prunus persica*, *Salix alba*, *Scirpus* sp., *Solanum* sp., *Solanum melongena*, *Trifolium* sp., *Ulmus* sp., *Vitis vinifera* and *Zea mays*.

Type locality – Uzbekistan.

Distribution – Jammu Kashmir, Karnataka and Maharashtra. **Outside India** – Azerbaijan, Bulgaria, China, Costa Rica, France, Greece, Hungary, Iran, Iraq, Israel, Kazakhstan, Kuwait, Mexico, Morocco, Netherlands, New Zealand, Pakistan, Poland, Portugal, Russia, Serbia, South Africa, Spain, Switzerland, Syria, Tajikistan, Serbia, and Montenegro.

Hosts – *Amaranthus albus*, *Amaranthus cruentus*, *Amaranthus albus*, *Amaranthus cruentus*, *Arracacia xanthorrhiza*, *Chaerophyllum aromaticum*, *Coriandrum sativum*, *Arracacia xanthorrhiza*, *Chaerophyllum aromaticum*, *Coriandrum sativum*, *Impatiens noli-tangere*, *Impatiens walleriana*, *Berberis thunbergii*, *Betula pubescens*, *Corylus avellana*, *Corylus colurna*, *Catalpa speciosa*, *Bixa Orellana*, *Alyssum* sp., *Brassica juncea*, *Brassica oleracea*, *Lepidium draba*, *Raphanus raphanistrum*, *Lobelia inflata*, *Cannabis* sp., *Humulus lupulus*, *Humulus scandens*, *Diervilla lonicera*, *Dianthus* sp., *Silene* sp., *Stellaria aquatic*, *Stellaria nemorum*, *Euonymus*

europaeus, *Fragaria ananassa*, *Malus domestica*, *Manihot esculenta*, *Manihot glaziovii*, *Vitis vinifera*, etc.

133. *Tetranychus udaipurensis* Gupta & Gupta, 1994

Tetranychus udaipurensis Gupta & Gupta, 1994: 137.

Type host – *Solanum melongena*.

Type locality – India.

Distribution – Himachal Pradesh, Karnataka, Kerala, Rajasthan and Tamil Nadu.

Hosts – *Asystasia gangetica*, *Diplocyclos palmatus* and Malvaceous weed.

134. *Tetranychus urticae* Koch, 1835

Tetranychus urticae Koch, 1835.

Synonyms

Tetranychus aduncus Flechtmann & Baker, 1967.

Tetranychus altheae von Hanstein, 1901.

Tetranychus arabicus Attiah, 1967b.

Tetranychus aratica Basu, 1963.

Tetranychus aspidistrae Oudemans, 1931c.

Tetranychus cinnabarinus (Boisduval, 1867) in: Auger *et al.* (2013): 383–415.

Tetranychus reetalius Basu, 1963.

Type host – *Glycine max* and *Urtica* sp.

Type locality – Germany and Madeira I. (Portugal).

Distribution – Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh and West Bengal. **Outside India** – Worldwide.

Hosts – More than 1160 hosts recorded worldwide.

135. *Tetranychus zaheri* Nassar & Ghai, 1981

Tetranychus zaheri Nassar & Ghai, 1981: 373.

Type host – *Phaseolus vulgaris*.

Type locality – India.

Distribution – Delhi and Karnataka.

DISCUSSION

The present study listed altogether 135 species of spider mites (Acari: Tetranychidae) from various localities of Indian territory which belong to 2 subfamilies and 6 tribes under 20 genera, viz., *Bryobia* Koch (3 species), *Bryobiella* Tuttle & Baker (1 species), *Aplonobia* Womersley (1 species), *Mesobryobia* Wainstein (2 species), *Neopetrobia* Wainstein (1 species), *Porcupinychus* Anwarullah (1 species), *Petrobia* Murray (2 species), *Aponychus* Rimando (6 species), *Eutetranychus* Banks (11 species), *Stylophoronychus* Prasad (3 species), *Swarnanychus* Mallik & Kumar (1 species), *Tenuipalponychus* ChannaBasavanna & Lakkundi (1 species), *Mixonychus* (*Bakerina*) Chaudhri (3 species), *Eotetranychus* Oudemans (28 species), *Hellenychus* Gutierrez (1 species), *Oligonychus* Berlese (21 species), *Panonychus* Yokoyama (3 species), *Schizotetranychus* Tragardh (21 species), *Stigmaeopsis* Banks (2 species), and *Tetranychus* Dufour (23 species).

Fifty-two of these species have their first description from India. The vast majority of spider mites that have been observed are associated with economically important crops. The most diverse

genus is *Eotetranychus* Oudemans, which has about 180 known species worldwide and 11 new species that are first reported from India. Followed by *Tetranychus* Dufour, which consists of 7 species that have been reported first time in India.

Tetranychus udaipurensis on *Lablas purpureus*, *Ricinus* sp., and *Moringa* sp.; *Oligonychus tylus* on *cocos nucifera* was first reported and *Schizotetranychus baltazari* on *citrus aurantiifolia*, *Murraya koenigii* and *Azadiracta indica*; *Schizotetranychus lespedezae* on *Bauhinia purpurea* and *Schizotetranychus krungthepensis* on *saccharum officinarum* were first found to be as new host association in India (Poojar *et al.* 2022). For the first time, *Tetranychus gloveri* was discovered in India on the ornamental plant, *Adenium obesum* in a nursery in the Thrissur district of Kerala (Zeity *et al.* 2016b). Later it was reported on cucumber (Bennur *et al.* 2015; Lenin *et al.* 2015; Lenin and Bhaskar 2016), papaya, ahgourd, brinjal, and cowpea (Arunima 2017). Recently, 8 host plants for *T. gloveri* have been recorded, such as rose, gerbera, adenium, balsam, marigold, chrysanthemum, orchid, and Cairo morning glory (Prakash *et al.* 2021). The records of *Tetranychus truncatus* and *Tetranychus turkestanii* were confirmed by Srinivasa *et al.* (2012) and Srinivasa *et al.* (2014), respectively using morphological characters as well as molecular data. The first report of *T. truncatus* in India was on Dahlia species in the Northwestern Himalayan states of Jammu and Kashmir and Himachal Pradesh (Rather 1983), and in Kerala, species was reported on vegetable crops in Kerala (Bennur *et al.* 2015). *Tetranychus marianae* was reported on *Centrocoma pubescence* in Karnataka, India, for the first time (Zeity *et al.* 2016b). Later, on rose from Vellanikkara was recorded; as the first occurrence of the species being documented from Kerala (Prakash *et al.* 2021).

The major pest *Oligonychus biharensis* is a native of India (Hirst 1925). Long-term feeding of *O. biharensis* causes the damaged leaves of the cassava plant *Manihot esculenta* L. to develop dark brown spots, crinkle, and eventually dry up and defoliate (Kaimal *et al.* 2011).

The genus *Aponychus*, often known as an oriental mite or African mite, is a significant pest on economically significant grasses like sugarcane and rice. The three species of *Aponychus*, viz., *A. expansus*, *A. lupus*, and *A. sulcatus* were initially described by Chaudhri (1972) from Pakistan. In India, *A. bambusae* is first reported by Gupta and Gupta (1990) from *Bambusa bambos*, *Saccharum officinarum*; *A. sarjui* Gupta, 1980 from *Bambusa* species; *A. kodaikanalensis* Gupta, 1984 from *Bambusa aurandinacea*.

In this review, 6 species of spider mites, viz. *Bryobiella punjabensis*, *Aplonobia sphaeralceae*, *Neopetrobia* (*Neopetrobia*) *simlaensis*, *Porcupinychus abutiloni*, *Swarnanychus bandipurensis*, *Tenuipalponychus citri* and *Hellenychus umfoloziensis* are only one species reported from their corresponding genera.

The spider mite web database of Migeon and Dorkeld listed out 18 species of *Myxonychus* from Asia, Africa, and Tasmania. *Mixonychus* (*Bakerina*) *orissaensis* Prasad, 1975a and *Mixonychus* (*Tylonicus*) *jayaraji* Karuppuchamy & Mohanasundaram, 1987 are two species that were described for the first time in India. A more extensive collection of spider mite samples from various parts of India may lead to the discovery of numerous additional species and provide a better understanding of the destruction it does to various host plants and it is largely required to enhance the current understanding of this fundamental taxon.

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فهرست کنه‌های تارتن (Acari: Tetranychidae) هند

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چکیده

فهرست ۱۳۵ گونه کنه تارتن گزارش شده (خانواده Tetranychidae) متعلق به ۲ دو زیر خانواده، ۶ شش قبیله و ۲۰ جنس، از مناطق مختلف هند در اینجا ثبت شده است. هدف این مقاله گردآوری داده‌ها از سوابق منتشر شده است که می‌تواند برای منابع بعدی و همچنین اهداف پژوهشی مفید باشد. در این مقاله فهرستی از نام‌های علمی گونه‌های کنه‌های تارتن هند به همراه مترادف‌ها و پراکندگی آن‌ها ارائه شده است.

واژگان کلیدی: Bryobiinae، پراکنش؛ میزبان؛ مترادف؛ Tetranychinae.

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