

# Acarology Bulletin

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A Newsletter of the **SYSTEMATIC AND APPLIED ACAROLOGY SOCIETY**

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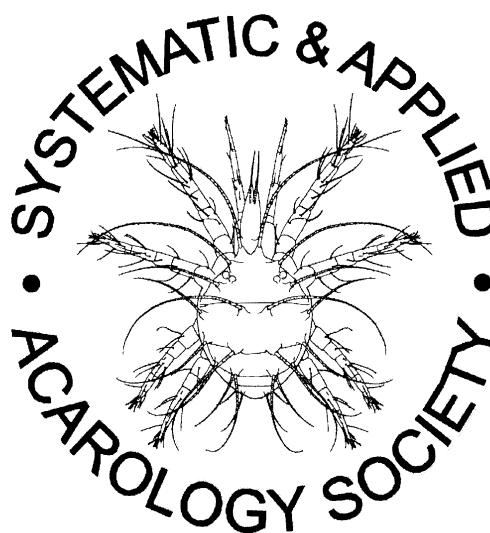
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## Acarological News

### ASA ANNUAL MEETING INFORMATION

The 2005 ASA annual meeting will be held on Sunday, November 6, 2005, as part of the Entomological Society of America annual meeting in Fort Lauderdale, Florida.

### CALL FOR PAPERS

#### JANUARY 24, 2005 DEADLINE

Angela James (USDA-APHIS) and David James will be moderating an afternoon symposium entitled "Current Advances in Acarology". You are invited to present your research in this session, but you should act soon since the deadline for submission is JANUARY 24, 2005. This is a great opportunity to promote your mite and tick research activities to other acarologists and entomologists, as well as to enjoy a little November sunshine and warmth.....

The Acarological Society of America also presents an award for the best paper presented by a student and a travel award to an outstanding graduate student to help with travel expenses. More details on these awards can be found at the ASA web site (<http://www.wm.edu/biology/mites/awards.htm>). Students do need to be members of the ASA to be eligible, so please join up! (it costs all of \$5 for annual student membership !! a membership form can be found at <http://www.wm.edu/biology/mites/join.html>).

Form more information, contact:

Dr David G. James

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Norm Fashing

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## Acarological organizations

### ARACHNOLOGY UNIT, SOUTH AFRICA

The ARACHNOLOGY UNIT (Biosystematics Division) is a leading research centre at ARC-PPRI on agriculturally and environmentally important Arachnida in Southern Africa. The groups they study include the Acari (mites) (except ticks and oribatid mites); Araneae (spiders); Pseudoscorpiones (false scorpions); Solifuges (sun spiders); Opiliones (harvestmen) and Amplypygi (whipspiders). Research on arachnids has been conducted at ARC-PPRI for more than 45 years resulting in an extensive database of information. They published more than 300 papers, including handbooks, manuals, scientific and popular articles.

#### National Collection of Arachnida (NCA) - Acari

The NCA-Acari is one of the largest mite collections in the Southern Hemisphere and compares well with other international collections. It comprises more than 120,000 slide-mounted specimens, and contains a wealth of information on mite diversity.

The mite collection in the NCA consists of two sections: general mite collection and the Zumpt collection. GENERAL MITE COLLECTION was established in 1959 and houses mainly slide-mounted specimens which consist of parasitic, plant feeding, predatory saprophagous and soil-living mites, with the emphasis on mites of economic importance. Of the 35,000 collection entries: 10,509 are type specimens, representing 998 species. The remainder of the collection houses representatives of 47 families, 200 genera and 1,200 species. ZUMPT COLLECTION contains 5,680 entries, representing about 15,500 specimens with: 1,267 type specimens, representing 300 species, and more than 4,500 non-type specimen entries, representing 42 families, 288 genera and 535 species. Collection manager: Lindie Steynberg (E-mail: rietls@plant2.agric.za).

<http://www.arc.agric.za/institutes/ppri/main/divisions/biosysdiv/arachnida.htm>

### U.S. NATIONAL MITE COLLECTION

Major early contributions: E.A. McGregor collection, plant-feeding mites of North America collected from 1912 to 1965; H.E. Ewing collection, Trombiculidae (chiggers); Water Mites-Newell Collection: ~2,000 vials, ~1,300 jars, and ~108,100 slides; Parasitic Mites-Yunker Collection: ~6,000 vials, ~12,900 slides; Plant-Feeding Mites-Keifer Collection (Eriophyidae) : ~450 vials, ~80 boxes of dry material, ~16,400 slides.

Baker Collection: ~10,600 slides. Soil Mites-Jacot Collection: ~4,200 slides. Bee Mites-Delfinado Collection: ~6,200 slides. Miscellaneous-Bartsch Collection: ~65 vials, ~20 type slides. Hull Collection: ~1,800 slides. Lukoschus Collection: ~500. Metz and

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Farrier Collection: ~1,900 slides. Rettenmeyer Collection: ~550 slides. Smiley Collection: ~21,400 slides.

The most recent inventory of the U.S. National Mite Collection found 1,0754 alcohol samples, 450 dry samples, and more than 332,000 slides housed at the Systematic Entomology Laboratory, Henry A. Wallace Agricultural Research Center, in Beltsville, MD. Additional material is under the supervision of collaborating institutions.

Tick Collection. This collection was acquired by F.C. Bishopp and was later combined with the collection of the Rocky Mountain Laboratory of the National Institutes of Health, Hamilton, MO. These collections are currently curated by L.A. Durden and J.E. Kierans at the Institute of Arthropodology and Parasitology, Georgia Southern University. Chigger Collection. The Trombiculidae collection is presently held by M.L. Goff at the Department of Entomology, University of Hawaii at Manoa. Phytoseiidae Collection. The predator mites of the family of Phytoseiidae have been studied extensively by H.A. Denmark. Currently, curation of this collection is supervised by W.C. Welbourn at the Florida Department of Agriculture, Division of Plant Industry, Gainesville, FL. The maintenance of the U.S. National Mite Collection is an on-going concern, and is currently overseen by Ronald Ochoa. Important new additions to the collection are being obtained from A. Fain, L'Institut Royal des Sciences Naturelles, Brussels; B. OConnor, University of Michigan Museum of Zoology, Ann Arbor; S. Mahunka, Hungarian Natural History Museum, Budapest; J.C. Moser, USDA Forest Service, Pineville, LA.

<http://www.sel.barc.usda.gov/acari/frames/hold.html>

## ACAROLOGY LABORATORY, OHIO STATE UNIVERSITY

With a teaching and research collection of more than 150,000 determined specimens and more than 1,000,000 undetermined specimens of ticks and mites, their acarology program is world renowned and functions as an international center for research on ticks and mites. The broad representation of specimens makes it the finest teaching collection of Acari in the world. They identify specimens submitted by state and federal agencies, researchers and the general public. They maintain a library of several thousand reprints. Their faculty and guest lecturers offer a three-week summer workshop, the longest running program of its kind. It provides advance students and practicing biologist from all over the world with the latest information on problems related to ticks and mites. They also work with scientists in apiculture to provide sound management techniques for controlling mites that infest bee colonies. Their acarologists use the tools of molecular biology to characterize genes associated with the secretion of tick salivary gland proteins. The Acarology Laboratory collaborates with the Ohio Department of

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Health on studies of vector-borne diseases, such as Lyme Disease, Rocky Mountain Spotted Fever, and a variety of other arthropod-related medical topics.

<http://www.biosci.ohio-state.edu/~acarolog/acar-hp.htm>

#### FLORIDA STATE COLLECTION OF ARTHROPODS (FSCA)

The Acari collection of FSCA was started in the early 1950's and is now one of the largest in North America with more than 116,700 microscope slides and over 1,000 vials. The Acari types in the Museum of Entomology (FSCA) number more than 1,338 specimens representing 413 nominal taxa in 18 families and 82 genera. This type material includes 158 holotypes, 1 neotype, 42 allotypes, and 326 paratypes. The family with the largest holdings is the Phytoseiidae with 132 holotypes, 42 allotypes and 223 paratypes. In addition to the slide collection, we maintain a collection of Berlese residues from Florida and other areas.

The Acari slide collection is strong in plant-associated mites, especially Tetranychidae, Tenuipalpidae, Tarsonemidae, Tydeidae and Phytoseiidae. Along with the Phytoseiidae, the FSCA has one of the best terrestrial Parasitengona (excluding chiggers) collections in the world. Collections from H.L. Cromroy, E.A. Cross, H.A. Denmark, K.E. Hyland, M.H. Muma, N. Wilson, J.P. Woodring, and C.E. Yunker make up part of the Acari collection.

The National Museum of Natural History, Smithsonian Institution (NMNH) Phytoseiidae type collection is on long term loan to the FSCA. The FSCA curates and processes loans for this important collection. The collection consists of 193 holotypes, 30 allotypes, 2 cotypes, 1 neotype and a syntype representing 253 species in 42 genera. Curator: W. C. (Cal) Welbourn

<http://www.fsca-dpi.org/Acari/AcariFrame.htm>

### **Acarologists**

Dr. Salih Dogan was called up to serve the Turkish Army for one year from December 2004.

New SAAS member, 2005

Dr. Georgios Broufas

Laboratory of Agricultural Entomology & Zoology

Department of Agricultural Development

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Democritus University

Greece

Email: gbroufos@agro.duth.gr

Research interest: Phytoseiidae, Tetranychidae (Biology, Ecology, Physiology and Control)

Dr. Taiji Imamura, Emeritus Professor of Ibaraki University, Japan, died on Dec. 28, 2004. He was 91 years old. He was an authority on water mite taxonomy.

Shozo Ehara

## Contents of journals

### Acarologia

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2003 (2005), Volume 43, Issue 1

- Geevarghese, G. & Kanojia, P.C. (2003) Impact of urbanization on the prevalence of tick fauna in Pune and its suburbs, Maharashtra State, India. **43**(1), 3
- Pereira, J.A., Torres, L., Espinha, I. & Ferragut, F. (2003) Contribution to the knowledge of phytoseiid mites associated with vineyards in the "Região Demarcada do Douro" (Porto Wine Region). **43**(1), 7
- Glida, H. & Bertrand, M. (2003) Two rare species of *Macrocheles* (groupe *glaber*). Consideration on the status of the *glaber* group (Acari: Macrochelidae). **43**(1), 15
- Bartsch, I. (2003) *Halacarus ctenopus* Gosse, 1855 (Acar, Halacaridae), Description of the neoty. **43**(1), 23
- Daniel, M. & Stekol'Nilov, A.A.. (2003) To the fauna of chigger mites (Acari: Trombiculidae) parasitize bats in Cuba. **43**(1), 29
- Zawal, A. (2003) Parasitism of water mite (*Hydrachnellae*) larvae of the genus *Eylais* on water beetles in Poland. **43**(1), 39
- Böttger, K. & Martin, P. (2003) On the morphology and parasitism of *Arrenurus globator* (O.F. Müller, 1776) (Hydrachnidia, Acari) - a water mite with an unusually extensive host spectrum. **43**(1), 49
- Greco, N.M. & Sánchez, N.E. (2003) Effects of previously damaged strawberry plants on *Tetranychus urticae* Koch (Acari: Tetranychidae). **43**(1), 59

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- Dimetry, N.Z., Amer, S.A.A. & El-Gengaihi, S. (2003) Toxocological evaluation and biological potency of petroleum ether extract of two plants and their isolates towards the two spotted spider mite "*Tetranychus urticae*" Koch. **43**(1), 67
- Domes, R. (2003) Five new species of Eriophyidae on *Aesculus hippocastanum* L. **43**(1), 75
- Domes, R. (2003) A new species of the genus *Diptacus*, family Diptilomiopidae (Acari: Eriophyoidea) on *Malus domestica* Borkh. **43**(1), 83
- Tixier, M.S., Kreiter, S., Allam, L., Ouahbi, A. & Hmimina, M. (2003) Phytoseiid and tetranychid mites (Acari: Mesostigmata, Prostigmata) of some Moroccan crops. **43**(1), 87
- Mironov, S.Y. & Fain, A. (2003) New feather mites of the family Ascouracaridae (Astigmata: Pterolichoidea) from some parrots and nightjars. **43**(1), 97
- Thind, B. & Dunn, J.A. (2003) Application of a rapid, sensitive flotation method for the determination of mites in disparate types of dust and debris samples. **43**(1), 111
- Badejo, M.A., Woass, S. & Beck, L. (2003) New Pterogastrine mites from Nigeria and Brazil. II. Protoribates. **43**(1), 119
- Grobler, L., Ozman, S.K. & Cobanoglu, S. (2003) The genera *Liacarus*, *Stenoxillus* and *Xenillus* (Oribatida: Gustavoidea) from Turkey. **43**(1), 131
- Alberti, G., Seniczak, A. & Seniczak, S. (2003) The digestive system and fat body of an early-derivative oribatid mites, *Archegozetes longisetosus* Aoki (Acari: Oribatida, Trhypochthoniidae). **43**(1), 149
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- Wohlthman, A. (2003) Harald Witte (1940–2003). **43**, 225
- Fernández-Calienes Valdés, A., Mendiola Martínez, J., Hernandex Alvares, H., Finlay Villalvilla, C.M. & Valdés Rodríguez, M. (2003) Cisteín proteinases in the *Boophilus microplus* ovary. **43**(3), 229
- Fernández-Calienes Valdés, A., Mendiola Martínez, J., Hernandex Alvares, H. & De La Vega, R. (2003) Cysteine and serine proteinases in the *Boophilus microplus* eggs. **43**(3), 239
- Marcangeli, J.L. (2003) Response of the honey bee *Apis mellifera* (Hymenoptera: Apidae) to the presence of the ectoparasite *Varroa destructor* (Mesostigdata: Varroidae). I. The hygienic behaviour. **43**(3), 249

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- Cédola, C.V. & Sánchez, N.E. (2003) Effect of Tomato pubescence on development, survival and fecundity of *Tetranychus urticae* Koch and *Neoseiulus californicus* (McGregor) [Acari: Tetranychidae, Phytoseiidae]. **43**(3), 255
- Bahadiroglu, C. & Avgin, S. (2003) Experimental infestation and seasonal variations in density of *Eriophyes vitis* Pgst. (Acarina: Eriophyidae) in Turkey. Consequences on earliest treatment. **43**(3), 261
- Domes, R. (2003) A new species of the genus *Nalepella* on Canada hemlock (*Tsuga Canadensis* (L.) Carr, Pinaceae). **43**(3), 267
- Navia, D. & Flechtmann, C.H.W. (2003) Mites (Acari) of the genus *Notostrix* Keifer (Eriophyidae): New records, description of six new species and key to the world species. **43**(3), 271
- Ueckermann, E.A. & Khanjani, M. (2003) Iranian Caligonellidae (Acari: Prostigmata), with two new species and re-description of *Molothrognathus fulgidus* Summers & Schlinger with a key to genera and species. **43**(3), 291
- Khanjani, M. & Ueckermann, E.A. (2003) Two new species of the genus *Raphignathus* Dugès (Acari: Raphignathidae) from Iran. **43**(3), 299
- Jorin-Novo, J., Acosta-Garcia, M.I. (2003) Morphometry and intrapopulational variability of *Tyrophagus putrescentiae* (Acari: Acaridae). **43**(3), 307
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- Perez-Eid, C. & Cabrita, J. (2003) La larve et la Nymphe de *Hyalomma* (*Hyalomma*) *lusitanicum* Koch, 1844 (Acari: Ixodida): description morphologique, Habitats, Hotes. **43**(4), 327
- Ragusa, S. (2003) Description of a new genus and of two new species of phytoseiid mites (Parasitiformes, Phytoseiidae), collected in Chile. **43**(4), 337
- Glida, H., Latifi, M., Bertrand, M. & Saboori, A. (2003) On three new *Macrocheles* from Iran, and discussion on the infrageneric systematic units. **43**(4), 345
- Mansoor-ul-Hasan, Bashir, F., Wakil, W. & Muhamad, Afzal. (2003) Two new species of false spider mites of the genus *Brevipalpus* Donnadieu (Acarina-Tenuipalpidae) from Punjab-Pakistan. **43**(4), 353
- Mansoor-ul-Hasan, Bashir, F. & Wakil, W. (2003) A new species of subgroup Eryophyoides (Tenuipalpus: Tenuipalpidae) from Punjab-Pakistan. **43**(4), 359
- Tuzovskij, P. (2003) Description of a new water mite species of the genus *Torrenticola* Piersig 1896 (Acariformes: Hydrachnidia: Torrenticolidae) from Russia. **43**(4), 363

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- Fujikawa, T. (2003) Thirteen new species from the Shirakami - Sanchi world Heritage Area (Acari: Oribatida). **43**(4), 369
- Søvik, G. (2003) Observations on ovoviviparity and mixed-parity mode in arctic populations of *Ameronothrus lineatus* (Acari, Oribatida). **43**(4), 393
- Fernandez, N.A. & Gleva, R. (2003) Contribution à la connaissance de la faune oribatologique de la Province de Cordoba, Argentine. III. *Plesiodamaeus tabuencai* n. sp. **43**(4), 399
- Zawal, A. (2003) Errata: Hosts of Eylais from Poland. **43**(4), 410
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### **Experimental and Applied Acarology**

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2005, Volume 35, Numbers 1–2

- Thind, B.B. (2004) A new versatile and robust mite trap for detection and monitoring of storage mites in the cereal and allied industries. **35**(1–2), 1–15.
- Wakefield, M.E. & Dunn, J.A. (2004) Effectiveness of the BT mite trap for detecting the storage mite pests, *Acarus siro*, *Lepidoglyphus destructor* and *Tyrophagus longior*. **35**(1–2), 17–28 .
- Noge, K., Mori, N., Tanaka, C. *et al.* (2004) Identification of astigmatid mites using the second internal transcribed spacer (ITS2) region and its application for phylogenetic study. **35**(1–2), 29–46.
- Raspotnig, G., Krisper, G. & Schuster, R. (2004) Ontogenetic changes in the chemistry and morphology of oil glands in *Hermannia convexa* (Acari: Oribatida). **35**(1–2), 47–58.
- Nishimura, S., Hinomoto, N. & Takafuji, A. (2004) Gene flow and spatio-temporal genetic variation among sympatric populations of *Tetranychus kanzawai* (Acari: Tetranychidae) occurring on different host plants, as estimated by microsatellite gene diversity. **35**(1–2), 59–71.
- Kroon, A., Veenendaal, R.L. & Egas, M. *et al.* (2004) Diapause incidence in the two-spotted spider mite increases due to predator presence, not due to selective predation. **35**(1–2), 73–81.
- Bernard, M.B., Horne, P.A. & Hoffmann, A.A. (2004) Eriophyoid mite damage in *Vitis vinifera* (grapevine) in Australia: *Calepitrimerus vitis* and *Colomerus vitis* (Acari:

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Eriophyidae) as the common cause of the widespread ‘Restricted Spring Growth’ syndrome. **35**(1–2), 83–109.

Michalska, K. (2004) Spermatophore deposition throughout the day by the plum rust mite, *Aculus fockeui*. **35**(1–2), 111–116

Davey, R.B., Miller, J.A., George, J.E. *et al.* (2004) Therapeutic and persistent efficacy of a single injection treatment of ivermectin and moxidectin against *Boophilus microplus* (Acari: Ixodidae) on infested cattle. **35**(1–2), 117–129.

Jensen, P.M. & Jespersen, J.B. (2004) Five decades of tick–man interaction in Denmark—an analysis. **35**(1–2), 131–146.

González-Acuña, D. & Guglielmone, A.A. (2004) Ticks (Acari: Ixodoidea: Argasidae, Ixodidae) of Chile. **35**(1–2), 147–163.

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Liana, M. (2004) First copulation increases longevity and fecundity of *Histiostoma feroniarum* (Acari: Astigmata: Acaridida) females. **35**(3), 173–181

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Ozman, S.K. & Goolsby, J.A. (2004) Biology and phenology of the eriophyid mite, *Floracarus perrepa*, on its native host in Australia, Old World climbing fern, *Lygodium microphyllum*. **35**(3), 197–213.

Martínez-Villar, E., Sáenz-De-Cabezón, F.J., Moreno-Grijalba, F. *et al.* (2004) Effects of azadirachtin on the two-spotted spider mite, *Tetranychus urticae* (Acari: Tetranychidae). **35**(3), 215–222.

Vargas, M., García-Varela, M., Lacleste, J.P. *et al.* (2004) Application of ITS-2 sequences as markers for identification and phylogenetic inference within the genus *Geomylichus* (Acari: Listrophoridae). **35**(3), 223–238.

Ochoa, R., Pettis, J.S., Erbe, E. *et al.* (2004) Observations on the honey bee tracheal mite *Acarapis woodi* (Acari: Tarsonemidae) using low-temperature scanning electron microscopy. **35**(3), 239–249.

Lewandowski, M. & Szafranek, P. (2004) Ectoparasitic mite *Hemipteroseius adleri* (Acari: Otopheidomenidae) on the red firebug *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae). **35**(3), 251–257.

Natala, A.J., Agyei, A.D., & Awumbíla, B. (2004) Susceptibility of *Amblyomma variegatum* ticks to acaricides in Ghana. **35**(3), 259–268.

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- Chant, D.A. & McMurtry, J.A. (2004) A review of the subfamily Amblyseiinae Muma (Acari: Phytoseiidae): Part IV. Tribe Amblyseiini Wainstein, Subtribe Arrenoseiina Chant and McMurtry. **30**(4), 291–312.
- Kurosa, K., Khaustov, A. & Husband, R.W. (2004) A new genus and three new species of Podapolipidae (Acari: Tarsonemina) parasitic on *Nicrophorus* and *Silpha* (Coleoptera: Silphidae) in Japan and Ukraine. **30**(4), 313–327.
- Husband, R.W. & Khaustov, A.A. (2004) A new species of *Eutarsopolipus* (Acari: Podapolipidae) from *Calathus* sp. (Coleoptera: Carabidae) from Ukraine. **30**(4), 329–333.
- Huang, K.-W. & Wang, C.-F. (2004) Eriophyoid mites of Taiwan: V. Description of four species of Tribe Tegenotini Hueysuen (Acari: Eriophyidae: Phyllocoptinae). **30**(4), 335–341.
- Kontschán, J. & Mahunka, S. (2004) *Caribothyirus barbatus* n. gen., n. sp., a new holothyrid mite (Acari: Neothyridae) from Dominican Republic. **30**(4), 343–346.
- Basha, A.E., Mahrous, M.E. & Mostafa, E.M. (2003) Descriptions of two new species of phytoseiid mites (Acari: Phytoseiidae) from Egypt. **30**(4), 347–350.
- Grobler, L., Bayram, S. & Çobanoğlu, S. (2004) Two new species and new records of oribatid mites from Turkey. **30**(4), 351–358.
- Fashing, N.J. (2004) Fine structure of the genital papillae of *Hormosianoetus mallotae* (Fashing) (Astigmata: Histiostomatidae), an obligatory inhabitant of water-filled treeholes. **30**(4), 359–367.
- Raspotnig, G., Krisper, G. & Schuster, R. (2004) Oil gland chemistry of *Trhypochthonius tectorum* (Acari: Oribatida) with reference to the phylogenetic significance of secretion profiles in the Trhypochthoniidae. **30**(4), 369–374
- Benoit, J.B., Yoder, J.A. & Zettler, L.W. (2004) *Scopulariopsis brevicaulis* (Deuteromycota) affords protection from secondary fungus infection in the American dog tick, *Dermacenter variabilis* (Acari: Ixodidae): Inference from competitive fungal interactions *in vitro*. **30**(4), 375–381.
- Norton, R.A. (2004) John B. Kethley (1942–2004)—A personal remembrance. **30**(4), 383–387.

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Ehara, S. (2004) A false spider mite *Dolichotetranychus zoysiae* sp. nov. (Acari: Tenuipalpidae) attacking lawngrass in Okinawa Island. **13**(2), 129.

Gotoh, T., Suwa, A. & Kitashima, Y. (2004) Development and oviposition of *Tetranychus pueraricola* Ehara and Gotoh (Acari: Tetranychidae) on various plants. **13**(2), 135.

De Moraes, G. J., Lopes, P. C. & Fernando, L. C. P. (2004) Phytoseiid mites (Acari: Phytoseiidae) of coconut growing areas in Sri Lanka, with descriptions of three new species. **13**(2), 141.

Bayartogtokh, B. (2004) Oribatid mites of the genus *Epidamaeus* (Acari: Oribatida: Damaeidae) from eastern Mongolia. **13**(2), 161.

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