

Acarology Bulletin

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

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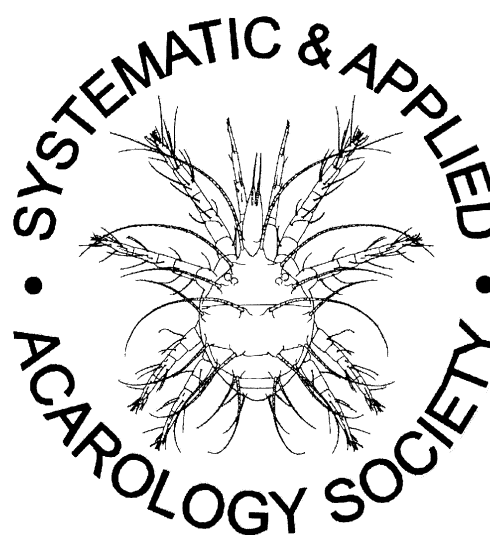
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Acarological News

THE 8TH NATIONAL CONFERENCE OF ACAROLOGY OF CHINA (NCAC)

The 8th NCAC was held from 28 to 29 November, 2005 as part of the Entomological Society of China annual meeting in Fuzhou, Fujian Province.

28 Nov 2005

8:30 Opening Ceremony

The First Acarological Contribution to China Award Ceremony. The following ten acarologists were awarded.

Chen, Xing Bao (BenBu Medical College, Benbu)

Jiang, Zai Jie (Beijing Normal University, Beijing)

Kuang, Hai Yuan (Nanjing Agricultural University, Nanjing)

Li, Long Shu (Southwest Agricultural University, Chongqing)

Liang, Lai Rong (Fudan University, Shanghai)

Meng, Yang Chun (Suzhou University, Suzhou)

Wang, Dun Qing (Fujan Medical University, Fuzhou)

Wang, Hui Fu (Institute of Zoology, Chinese Academy of Sciences)

Wen, Tin Huan (Fudan University, Shanghai)

Wu, Wei Nan (Institute of Entomology, Guangdong Provincial Academy of Sciences)

9:30 am The learning behaviour of mites. Jin, Dao-Chao, Guizhou University, Guiyang

10:00 am The relationship between *Wolbachia* and the evolution of *Tetranychus urticae* and *T. cinnabarinus* (Acari: Tetranychidae). Hong, Xiao-Yue, Nanjing Agricultural University, Nanjing

10:30 A primary study on the functional regulation of salivary glands and proteomics of *Haemaphysalis longicornis* Neumann (Acari: Ixodidae). Liu, Jing-Ze, Hebei Normal University, Shijiazhuang

11:00 The commercialization of beneficial natural enemies in China. Zhang, Yan-Xuan, Institute Plant Protection, Fujian Academy of Agricultural Science, Fuzhou

11:30 Spatial pattern analysis of parasitic gamasid mites (Acari: Mesostigmata) on *Rattus flavipectus*. Guo, Xian-Guo, Laboratory of Vector and Pathogen, Dali Medical College, Dali, Yunnan

14:00-17:00 Visiting tour to Fuzhou City and Universities.

29 Nov 2005

8:30 Study on resistance selection and relative fitness of *Tetranychus cinnabarinus* (Boiduval) (Acari: Tetranychidae). He, Lin, Plant Protection Department, Southwest Agricultural University, Chongqing

9:00 The breakthrough and the mystification of taxonomy. Fan, Qing-Hai, Plant Protection Department, Fujian Agricultural and Forestry University, Fuzhou

10:00 An investigation of *Rhizoglyphus* (Acari: Acaridae) and its hosts in Fujian. Su, Xiu-Xia, Plant Protection Department, Fujian Agricultural and Forestry University, Fuzhou

10:15 An investigation of mites in houses of Fujian Province. Wu, Zi-Yi, Plant Protection Department, Fujian Agricultural and Forestry University, Fuzhou

10:30 Dynamic interactions of pest and beneficial mites on tee plants. Ma, Xin-Hua, Plant Protection Department, Fujian Agricultural and Forestry University, Fuzhou

10:45 Population dynamic of pest mites on citrus plants in northwest Fujian. Gao, Ming-Qing, Plant Protection Department, Fujian Agricultural and Forestry University, Fuzhou

11:00 Five new records of Bdellidae (Acari: Prostigmata). Lin, Jian-Zhen, Institute Plant Protection, Fujian Academy of Agricultural Science, Fuzhou

11:15 Effects on mite community in citrus orchards of releasing *Neoseius cucumeris* (Acari: Phytosiidae). Ji, Jie, Institute Plant Protection, Fujian Academy of Agricultural Science, Fuzhou

11:30 Effects of fungicides on *Neoseius cucumeris* (Acari: Phytosiidae). Chen, Xia, Institute Plant Protection, Fujian Academy of Agricultural Science, Fuzhou

11:45 Dynamic and spatial pattern of *Tetranychus urticae* (Acari: Tetranychidae) in apple orchards. Yu, Li-Chen, Institute Plant Protection, Hebei Academy of Agricultural Science, Changli

12:00-2:00 Lunch

2:00 Effects of *Amblyseius hainanensis* (Acari: Phytosiidae) on *Brevipalpus obovatus* (Acari: Tenuipalpidae). Zheng, Da-Rui, Laboratory of Insect Ecology, South China Agricultural University, Guangzhou

2:15 Effects of an acaricide Yamamkexing on the larval *Copera ciliata* (Insecta: Odonata: Platycnemididae). Chang, Xiao-Li, Nanjing Agricultural University, Nanjing

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- 2:30 Geographical and genetic variation in *Tetranychus urticae* (Acari: Tetranychidae) in China. Xie, Lin, Nanjing Agricultural University, Nanjing
- 2: 45 Relationship between chemical components of plant hosts and the development of *Tetranychus urticae* (Acari: Tetranychidae). Li, Li, Nanjing Agricultural University, Nanjing
- 3:00 Influence of food on the threshold temperature and effective temperature of *Tyrophagus putrescentiae* (Acari: Acaridae). Liu, Tin, Guizhou University, Guiyang
- 3:15 Spatial pattern and sampling technique of *Tetranychus turkestani* (Acari: Tetranychidae) in cotton field. Zhang, Jian-Ping, Agricultural College, Shihezi University, Shihezi, Xinjiang
- 3:30 Application of the isozyme technique in taxonomy of Acaridae. Zou, Zhi Wen, College of Life Science , Nanchang U niversity , Nanchang
- 3:45 Break
- 4:00 Closing Ceremony

Dr. Qing-Hai Fan

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2006 ASA ANNUAL MEETING

Dear Acarologists,

The next meeting of the Acarological Society of America will be held (in conjunction with the Entomological Society of America) at Indianapolis, Indiana, USA on December 10, 2006.

Dr. Hans Klompen (Museum of Biological Diversity, Ohio State University) and I will be conducting the afternoon symposium entitled "Current Advances in Acarology 2006" and we want to invite you to present your mite and tick findings in this session. It will be an excellent opportunity to inform other colleagues and Entomologists about your work and research activities. Each presentation will be 12 minutes long with 3 minutes for questions. Indianapolis will be a nice place for sharing and interacting with mite and tick specialists of the central United States.

The Acarological Society of America also has several awards for students. There is an award for the best paper presented by a student, and a travel award to an outstanding student to help with travel expenses, please send your formal request by e-mail to Dr. Diane Sammataro (dsammataro@tucson.ars..ag.gov). More details on these awards can

be found at the ASA web site (<http://www.wm.edu/biology/mites/awards.htm>). Students need to be members of the ASA to be eligible, so please join up! It costs all of \$5 for an annual membership! (contact Dr. Norm Fashing at njfash@wm.edu) please pass on this information to your undergraduate and graduate students.

So please open that new 2006 notebook, mark December 10, and email us (klompen.1@osu.edu - rochoa@sel.barc.usda.gov) the title of your paper along with your mailing address, phone, fax, e-mail and affiliation. Remember that the number of presentations is limited, so reserve your space in this important symposium now!

The deadline for being part of this symposium is February 24 2006. So please contact us as soon as possible and mark your calendar for our mitey meeting in Indianapolis now before you forget.

Our best and Happy New Year

Dr. Hans Klompen

Ohio State University (E-mail: klompen.1@osu.edu)

Dr. Ronald Ochoa

USDA (E-mail: rochoa@sel.barc.usda.gov)

Contents of journals

Acarina

Volume 13, Number 1, 14 September 2005

Mironov, S.V. & Wauthy, G. (2005) A new species of the feather mite *Mouchetia* Gaud, 1961 (Astigmata, Pteronyssidae) from the greencap eremomela *Eremomela scotops* (Passeriformes: Sylviidae) and taxonomic notes to species of the genus. 13(1), 3–14 [in English].

Bochkov, A.V. & Klimov, P.B. (2005) Three new species of the predaceous Cheyletidae (Acari: Prostigmata) phoretic on insects. 13(1), 15–22 [in English].

Kolodochka, L.A. 2005. A new species of the genus *Kampimodromus* (Parasitiformes, Phytoseiidae). 13(1), 23–27 [in English].

Tuzovsky, P.V. (2005) A new water mite species of the genus *Tiphys* (Acariformes, Pionidae). 13(1), 29–34 [in English].

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- Khaustov, A.A. (2005) Three new species of mite family Pygmephoridae (Acari: Heterostigmata) associated with scarab beetles (Coleoptera: Scarabaeidae) from Ukraine. 13(1), 35–42 [in English].
- Khaustov, A.A. (2005) A new species of mites of the family Scutacaridae (Acari: Heterostigmata) associated with *Pasira mediterranea* (Heteroptera, Reduviidae) from Crimea. 13(1), 43–45 [in English].
- Shatrov, A.B. (2005) Description of mouthparts in adult mites of *Platytrombidium fasciatum* (C.L. Koch, 1836) (Acariformes: Microtrombidiidae) with a comparison of those of the larvae. 13(1), 47–74 [in English].
- Petrova-Nikitina, A.D., Antropova, A.B., Mokeeva, V.L., Chekunova, L.N., Bilanenko, E.N., Bulgakova, T.A. & Zheltikova T.M. (2005) To the study of biocenotic relationships between house dust mites (Acariformes: Pyroglyphidae) and mould fungi. 13(1), 75–84 [in English].
- Mikulova, N., Dusbabek, F. & Bouman, E.A.P. (2005) Mating activity and physiological age of females in population of *Ixodes ricinus* (L.) (Acari: Ixodidae). 13(1), 85–92 [in English].
- Alekseev, A.N., Dubinina, H.V., Chirov, P.A., Peterson, A.M. & Turtseva, M.A. (2005) Peculiarities of cadmium-tolerant populations of *Ixodes* ticks: specificity of their microbiocenoses, immunity and vector capacity. 13(1), 93–104 [in English].
- Shtanchaeva, U.Ya. (2005) A review of studies on oribatid mites (Acari, Oribatida) in the Caucasus. 13(1), 105–114 [in English].

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Volume 45, Number 1, January 2005

- Abdel-Shafy, S. (2005) Scanning electronic microscopy and comparative morphology of argasid larvae (Acari: Ixodida: Argasidae) infesting birds in Egypt. 45(1), 3–12.
- Lebdi-Grissa, K., Van Impe, G. & Lebrun, Ph. (2005) Biological parameters and demography of *Neoseiulus californicus* (Acari: Phytoseiidae) under different temperature conditions. 45(1), 13–22.
- El-Sawi, S.A. & Momen, F.M. (2005) Biology of some phytoseiid predators (Acari: Phytoseiidae) on eggs of *Phthorimae operculella* and *Spodoptera littoralis* (Lepidoptera: Gelechidae and Noctuidae). 45(1), 23–30.
- Wiles, P.R. & Chamberlain, G.H. (2005) Water mites (Acari: Hydrachnidia) from Peninsular Malaysia: descriptions of new species. 45(1), 31–41.

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- Tuzovskij, P. (2005) A new water mite species of the genus *Atractides* Koch (Acariforms, Hygrobatidae) from Russia. 45(1), 43–47.
- Beard, J.J & Walter, D.E. (2005) A new species of *Tukerella* (Prostigmata: Tetranychoidae: Tuckerellidae) from Australia with descriptions of all stages and a discussion of the tritonymphal stage. 45(1), 49–60.
- Domes, R. (2005) A new species of the genus *Calepitrimerus*, family Eriophyidae (Acari: Eriophyidea) on *Chamaecyparis obtusa* (Cupressaceae). 45(1), 61–65.
- Domes, R. (2005) Descriptions of three new species on Syskiyou spruce (*Picea breweriana*), Pinaceae. 45(1), 67–76.
- Frenkel, C. & Vargas, M. (2005) The immature stages and adults of *Geckobia keegani* (Acari: Pterygosomatidae), parasite of *Hemidactylus frenatus* (Gekkonidae) in Costa-Rica. 45(1), 77–83.
- Tagami, K. & Kuwahara, Y. (2005) Remarkable species of *Histiostoma* (Histiostomatidae, Astigmata) from Japan with a pair of newly identified ventral coxal organs and sexual dimorphism of chemicals components. 45(1), 85–98.
- (2005) A video on the mites form dung habitat (CD Rom) by A.M. Camerik: The Life cycle of *Pediculaster* (Acari: Siteropitidae) in cattle dung. 45(1), 99.
- (2005) 12th International Congress of Acarology. 45(1), 100.

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- Pernal, S.F., Baird, D.S., Birmingham, A.L., Higo, H.A., Slessor, K.N. & Winston, M.L. (2005) Semiochemicals Influencing the Host-finding Behaviour of *Varroa destructor*. 37(1–2), 1–26.
- Zannou, Ignace D., Hanna, Rachid, de MoRaes, Gilberto J. & Kreiter, Serge (2005) Cannibalism and Interspecific Predation in a Phytoseiid Predator Guild from Cassava Fields in Africa: Evidence from the Laboratory. 37(1–2), 27–42.
- Hatherly, Ian S., Bale, Jeffrey S. & Walters, Keith F.A. (2005) Intraguild Predation and Feeding Preferences in Three Species of Phytoseiid Mite Used for Biological Control. 37(1–2), 43–55.
- Greco, Nancy M., Sánchez, Norma E. & Liljeström, Gerardo G. (2005) *Neoseiulus californicus* (Acari: Phytoseiidae) as a Potential Control Agent of *Tetranychus urticae* (Acari: Tetranychidae): Effect of Pest/Predator Ratio on Pest Abundance on Strawberry. 37(1–2), 57–66.

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- Maeda, Taro (2005) Correlation between Olfactory Responses, Dispersal Tendencies, and Life-history Traits of the Predatory Mite *Neoseiulus womersleyi* (Acari: Phytoseiidae) of Eight Local Populations. 37(1–2), 67–82.
- Auger, Philippe, Bonafos, Romain, Kreiter, Serge & Delorme, Robert (2005) A Genetic Analysis of Mancozeb Resistance in *Typhlodromus pyri* (Acari: Phytoseiidae). 37(1–2), 83–91.
- van Leeuwen, T., Dermauw, W., Van De Veire, M. & Tirry, L. (2005) Systemic Use of Spinosad to Control the Two-spotted Spider Mite (Acari: Tetranychidae) on Tomatoes Grown in Rockwool. 37(1–2), 93–105.
- Chigira, Atsushi & Miura, Kazuki (2005) Detection of ‘*Candidatus Cardinium*’ Bacteria from the Haploid Host *Brevipalpus californicus* (Acari: Tenuipalpidae) and Effect on the Host. 37(1–2), 107–116.
- Alves, Sérgio, Tamai, Marco, Rossi, Luciana & Castiglioni, Enrique (2005) *Beauveria bassiana* Pathogenicity to the Citrus Rust Mite *Phyllocoptruta oleivora*. 37(1–2), 117–122.
- Siriwardena, P.H.A.P., Fernando, L.C.P. & Peiris, T.S.G. (2005) A New Method to Estimate the Population Size of Coconut Mite, *Aceria guerreronis*, on a Coconut. 37(1–2), 123–129.
- Dunn, J., Prickett, A. & Thind, B. (2005) Assessment of Monitoring Methods for Early Detection of Three Species of Storage Mite in Bulk Oilseed Rape. 37(1–2), 131–140.
- Traina, Oliver, Cafarchia, Claudia, Capelli, Gioia, Iacobellis, Nicola Sante & Otranto, Domenico (2005) In vitro Acaricidal Activity of Four Monoterpenes and Solvents Against *Otodectes cynotis* (Acari: Psoroptidae). 37(1–2), 141–146.
- González-acuña, Daniel, Venzal, José M., Keirans, James E., Robbins, Richard G., Ippi, Silvina & Guglielmone, Alberto A. (2005) New Host and Locality Records for the *Ixodes auritulus* (Acari: Ixodidae) Species Group, with a Review of Host Relationships and Distribution in the Neotropical Zoogeographic Region. 37(1–2), 147–156.

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- Villa, José & Danka, Robert (2005) Caste, Sex and Strain of Honey Bees (*Apis mellifera*) Affect Infestation with Tracheal Mites (*Acarapis woodi*)*. 37(3–4), 157–164.
- Pree, D., Whitty, K. & Driel, L. (2005) Baseline Susceptibility and Cross Resistances of Some New Acaricides in the European Red Mite, *Panonychus ulmi**. 37(3–4), 165–171.

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- Hosseini, Mojtaba, Hatami, Bijan, Saboori, Alireza, Allahyari, Hossein & Ashouri, Ahmad (2005) Predation by *Allothrombium pulvinum* on the spider mites *Tetranychus urticae* and *Amphitetranychus viennensis*: Predation Rate, Prey Preference and Functional Response. 37(3–4), 173–181.
- Li, Andrew, Davey, Ronald, Miller, Robert & George, John (2005) Mode of Inheritance of Amitraz Resistance in a Brazilian Strain of the Southern Cattle Tick, *Boophilus microplus* (Acari: Ixodidae)*. 7(3–4), 183–198.
- Sossai, Sidimar, Peconick, Ana, Sales-Junior, Policarpo, Marcelino, Francismar, Vargas, Marlene, Neves, Elisangela & Patarroyo, Joaquín (2005) Polymorphism of the bm86 Gene in South American Strains of the Cattle Tick *Boophilus microplus*. 37(3–4), 199–214.
- Mulenga, Albert & Azad, Abdu (2005) The Molecular and Biological Analysis of Ixodid Ticks Histamine Release Factors. 37(3–4), 215–229.
- Arruda, Walquíria, Lübeck, Irina, Schrank, Augusto & Vainstein, Marilene (2005) Morphological Alterations of *Metarhizium anisopliae* During Penetration of *Boophilus microplus* Ticks. 37(3–4), 231–244.
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- Chant, D.A. & McMurtry, J.A. (2005) A review of the subfamily Amblyseiinae Muma (Acari: Phytoseiidae): Part VI. The tribe Euseiini n. tribe, subtribes Typhlodromalina n. subtribe, Euseiina n. subtribe, and Ricoseiina n. subtribe. 31(3), 187–224.
- Momen, F. & Lundqvist, L. (2005) The genera *Metalorriya* and *Tydeus* (Acari: Prostigmata: Tydeidae), new and unrecorded species from south Sweden. 31(3), 225–236.
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- Husband, R.W. & Weatherby, C.A. (2005) Description of the male *Dorsipes auncinius* (Acari: Podapolipidae) from *Tefflus* sp. (Coleoptera: Carabidae) Kenya and comparison of adult and larval females of *Dorsipes auncinius* from Democratic Republic of the Congo and southern Kenya. 31(3), 245–348.
- Cook, D.R. (2005) A new subgenus and two new species of *Hygrobatopsis* (Acari: Hydrachnida, Hygrobatidae) from south Africa. 31(3), 249–254.
- Vidrine, M.F., Borsari, B. & Bastian-Stanford, M. (2005) A new subgenus (*Chambardicola*) and species of *Unionicola* (Acari: Hydrachnida: Unionicolidae) from freshwater mussels from the Central African Republic. 31(3), 255–258.
- Keirans, J.E. and Eckerlin, R.P. Description of the male and redescription of the female of *Ixodes (Ixodes) guatemalensis* and description of the male, nymph and larva of *Ixodes (Afrixodes) moreli* and redescription of the female (Acari: Ixodida: Ixodidae). 31(3), 259–268.
- Benoit, J.B., Yoder, J.A., Ark, J.T. & Rellinger, E.J. (2005) Growth response to squalene, a tick allomonal component, by fungi commonly associated with the American dog tick, *Dermacentor variabilis* (Say). 31(3), 269–275.
- Prischmann, D.A., James, D.G. & Snyder, W.E. (2005) Impact of management intensity on mites (Acari: Tetranychidae, Phytoseiidae) in southcentral Washington wine grapes. 31(3), 277–288.
- Prischmann, D.A. & James, D.G. (2005) New mite records (Acari: Eriophyidae, Tetranychidae) from grapevines in Oregon and Washington state. 31(3), 289–291.
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- Chant, D.A. & McMurtry, J.A. (2005) A review of the subfamily Amblyseiinae Muma (Acari: Phytoseiidae): Part VII. Typhlodromipsini n. tribe. 31(4), 315–340.
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- Husband, R.W., OConnor, B.M. & Ochoa, R. (2005) Two new species of *Orthopolipus* (Acari: Podapolipidae), parasites of Central American Tettigoniidae (Hexapoda: Orthoptera), with a rediagnosis of the genus. 31(4), 355–362.
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- Faraji, F. & Karg, W. (2005) Two new species of Ascidae from France and the Netherlands (Acari: Gamasina). 31(4), 375–378.
- Smith, I.M. & Cook, D.R. (2005) Systematics of stream-inhabiting species of *Limnochares* (Acari: Eylaoidea: Limnocharidae) in North America. 31(4), 379–385.
- Smith, I.M. & Cook, D.R. (2005) Description of a new species of *Neolimnochares* (Acari: Eylaoidea: Limnocharidae) from Eastern North America. 31(4), 387–392.
- Clarke, F.C. & Pretorius, E. (2005) A comparison of geometric morphometric analyses and cross-breeding as methods to determine relatedness in three *Amblyomma* species (Acari: Ixodidae). 31(4), 393–405.
- Muzaffar, S.B. & Jones, I.L. (2005) Population structure, distribution patterns and precopulatory mate-guarding in the feather mite *Alloptes Canestrini*, 1879 (Acari: Analgoidea: Alloptidae) on auks (Charadriiformes: Alcidae) at the Gannet Islands, Labrador, Canada. 31(4), 407–416.
- Benoit, J.B., Yoder, J.A., Ark, J.T. & Rellinger, E.J. (2005) Fungal fauna of *Ixodes scapularis* Say and *Rhipicephalus sanguineus* (Latreille) (Acari: Ixodida) with special reference to species-associated internal mycoflora. 31(4), 417–422.
- Prasad, V. (2005) Guide for authors: Revised instructions and simplified codes publication of papers in the International Journal of Acarology. 31(4), 423–428.
- Santos, C.D. (2005) Short note – Photoreactivation of ultraviolet-B damage in *Tyrophagus putrescentiae* (Acari: Acaridae) and *Tetranychus urticae* (Acari: Tetranychidae). 31(4), 429–431.
- Prischmann, D.A., James, D.G. & McMurtry, J.A. (2005) Occurrence of a predatory mite (Acari: Phytoseiidae) within willow galls caused by eriophyid mites. 31(4), 433–436.
- (2005) News. 31(4), 437–438.
- (2005) Index and advertisement. 31(4), 439–440.

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- Noge, K., M. Kato, T. Iguchi, N. Mori, R. Nishida and Y. Kuwahara (2005) Biosynthesis of Neral in *Carpoglyphus lactis* (Acari: Carpoglyphidae) and Detection of Its Key Enzyme, Geraniol Dehydrogenase, by Electrophoresis. 14(2), 75–81.
- Kuriki, G. (2005) Oribatid Mites from Several Mires in Northern Japan I. Two New Species of the Genus *Trhypochthoniellus* (Acari: Oribatida). 14(2), 83–92.
- Gotoh, T., T. Akizawa, M. Watanabe, A. Tsuchiya and S. Shimazaki (2005) Cold Hardiness of *Neoseiulus californicus* and *N. womersleyi* (Acari: Phytoseiidae). 14(2), 93–103.
- Okabe, K. and S. Makino (2005) Mite Faunas and Morphology of Acarinaria on Japanese and Taiwanese Large Carpenter Bees (Hymenoptera: Apidae). 14(2), 105–115.
- Karasawa, S., K. Gotoh, T. Sasaki and N. Hijii (2005) Wind-based Dispersal of Oribatid Mites (Acari: Oribatida) in A Subtropical Forest in Japan. 14(2), 117–122.
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