

REFERENCES

- [Aggarwal, 1998] Aggarwal, K., "Incidence of *Tropilaelaps clareae* on three *Apis* species in Hisar (India)," In: Needham GR, Page RE Jr, Delfinado-Baker M, Bowman CE (eds) Africanized honey bees and bee mites. Ellis Horwood, Chichester, pp. 396-403.
- [Akratanakul, 1975] Akratanakul, P., Burgett, M., "*Varroa jacobsoni*: A prospective pest of honeybees in many parts of the world," Bee World, 56, 1975, pp. 119-121.
- [Akratanakul, 1987] Akratanakul, P., "Honey bee diseases and enemies in Asia: a practical guild," FAO Agricultural services Bulletin, 68, 1987, pp. 1-51.
- [Anderson, 1994] Anderson, D.L., "Non-reproduction of *Varroa jacobsoni* in *Apis mellifera* colonies in Papua New Guinea and Indonesia," Apidologie, 25, 1994, pp. 412-421.
- [Anderson, 1996] Anderson, D.L., Sukarsih, D., "Changed *Varroa jacobsoni* reproduction in *Apis mellifera* colonies in Java," Apidologie, 27, 1996, pp. 461-466.
- [Anderson, 1998] Anderson, D.L., Fuchs, S., "Two genetically distinct populations of *Varroa jacobsoni* with contrasting reproductive abilities on *Apis mellifera*," J. Apic. Res., 37, 1998, 69-78.
- [Anderson, 2000] Anderson, D.L., "Variation in the parasitic bee mite *Varroa jacobsoni* Oud," Apidologie, 31, 2000, pp. 281-292.
- [Anderson, 2000] Anderson, D.L., Trueman, J.W.H., "*Varroa jacobsoni* (Acari: Varroidae) is more than one species," Exp. Appl. Acarol., 24, 2000, pp. 165-189.

- [Anderson, 2007] Anderson, D.L., Morgan, M.J., "Genetic and morphological variation of bee-parasitic *Tropilaelaps* mites (Acari: Laelapidae): new and re-defined species," *Exp. Appl. Acarol.*, 43, 2007, pp. 1-24.
- [Atwal, 1971] Atwal, A.S., Goyal, N.P., "Infestations of honeybee colonies with *Tropilaelaps*, and its control," *J. Apic. Res.* 10, 1971, pp. 137-142.
- [Benjamin, 2008] Benjamin, A., McCallum, B., *A world without bee*, Guardian Books, London, 2008, pp. 336.
- [Boot, 1997] Boot, W.J., Tan, N.Q., Dien, P.C., Huan, L.V., Dung, N.V., Long, L.T. and Beetsma. J., "Reproductive success of *Varroa jacobsoni* in brood of its original host, *Apis cerana*, in comparison to that of its new host, *A. mellifera* (Hymenoptera: Apidae)," *Bull. Entomol. Res.* 87, 1997, 119–126.
- [Buchwald, 2006] Buchwald, R., Breed, M.D., Greenberg, A.R, Otis, G., "Interspecific variation in beeswax as a biological construction materials" *J. Exp. Biol.*, 209, 2006, pp. 3984-3989.
- [Burgett, 1983] Burgett, D.M., Akratanakul, P., Morse, R., "*Tropilaelaps clareae*: A parasite of honey bees in Southeast Asia," *Bee World*, 64, 1983, pp. 25-28.
- [Burgett, 1985] Burgett, D.M., Akratanakul, P., "The little known honey bee brood mite," *Am. Bee J.*, 125, 1985, pp. 112-115.
- [Burgett, 1985] Burgett, D.M., Burikam, I., "The number of adult honey bees (Hymenoptera: Apidae) occupying a comb: a standard for estimating colony populations," *J. Econ. Entomol.*, 785, 1985, pp. 1154-1156.
- [Burgett, 1989] Burgett, D.M., Royce, L.A., Ibay, L., "Concurrence of the *Acarapis* species complex (Acari: *Tarsonemidae*) in a commercial honey-bee apiary in the Pacific Northwest," *Exp. Appl. Acarol.*, 7, 1989, pp. 251-255.
- [Burgett, 1990] Burgett, D.M., "Bakuti - a Nepalese culinary preparation of giant

- honey bee brood," Fd. Insects News., 3, 1990, pp. 1.
- [Burgett, 1990] Burgett, D.M., Kitprasert, C., "Evaluation of Apistan™ as a control for *Tropilaelaps clareae* (Acari: Laelapidae), an Asian honey bee brood mite parasite," Am. Bee. J., 130, 1990, 51-53.
- [Burgett, 1990] Burgett, D.M., Rossignol, P.A., Kitprasert, C., "A model of dispersion and regulation of the brood mite parasite, *Tropilaelaps clareae* by its giant honey bee host, *Apis dorsata*," Can. J. Zool., 68, 1990, pp. 1423-1427.
- [Carreck, 1998] Carreck, N.L., Williams, I.H., "The economic value of bees in the UK," Bee Wld., 79, 1998, pp. 115-123.
- [Camazine, 1986] Camazine, S., "Differential reproduction of the mite, *Varroa jacobsoni* (Mesostigmata: Varroidae), on Africanized and European honey bees (Hymenoptera: Apidae)," Annals of the Entomological Society of America, 79, 1986, pp. 801-803.
- [Chen, 2007] Chen, Y.P., Siede, R., *Honey bee viruses*, In: Advances in Virus Research, Academic Press, 70, 2007, PP.33-80.
- [Chen, 2008] Chen, Y., Evans, J.D., Smith, I.B., Pettis, J.S., "*Nosema ceranae* is a long-present and wide-spread microsporidian infection of the European honey bee (*Apis mellifera*) in the United States," J. Invert. Pathol. 97, 2008, pp. 186-188.
- [Crane, 1988] Crane, E., "Africanized bees, and mites parasitic on bees, inrelation to world beekeeping," In: Needham GR, Page RE Jr, Delfinado-Baker M, Bowman CE (eds) Africanized honey bees and bee mites. Ellis Horwood, Chichester, pp 1-9.
- [Crane, 1990] Crane, E., *Bees and beekeeping*, Comstock Publishing Associates, Ithaca, New York, 1990.
- [Dade, 1977] Dade, H.A., *Anatomy and dissection of the honey bee*, International bee research Association, 1977, pp. 158.

- [Dainat, 2009] Dainat, B., Ken, T., Berthoud, H., Neumann, P., "The ectoparasitic mite *Tropilaelaps mercedesae* (Acari, Laelapidae) as a vector of honey bee viruses," Insect Sociaux., 56, 2009, pp. 40-43.
- [de Guzman, 1996] de Guzman, L.I., Delfinado-Baker, M., "A new species of *Varroa* (Acari: Varroidae) associated with *Apis koschevnikovi* (Apidae: Hymenoptera) in Borneo," International Journal of Acarology, 22, 1996, pp. 23-27.
- [de Guzman, 1997] de Guzman, L.I., Rinderer, T.E., Stelzer, J.A., "DNA evidence of the origin of *Varroa jacobsoni* Oudemans in the Americas," Biochemical Genetics, 34, 1997, pp. 327-335.
- [de Guzman, 1998] de Guzman, L.I., Rinderer, T.E., Stelzer, J.A., Anderson, D, "Congruence of RAPD and mitochondrial DNA markers in assessing *Varroa jacobsoni* genotypes," J. Apic. Res., 37, 1998, pp. 49-51.
- [de Guzman, 1999] de Guzman, L.I., Rinderer, "Identification and comparison of Varroa species in festing honey bees," Apidologie, 30, 1999, pp. 85-95.
- [de Guzman, 2007] de Guzman, L.I., Rinderer, T.E., Frake, A.M., "Growth of *Varroa destructor* (Acari: Varroidae) populations in Russian honey bee (Hymenoptera: Apidae) colonies," Ann. Entomol. Soc. Am., 100, 2007, pp. 187-195.
- [de Guzman, 2008] de Guzman, L.I., Rinderer, T.E., Frake, A.M., "Comparative reproduction of *Varroa destructor* in different types of Russian and Italian honey bee combs," Exp. Appl. Acarol., 44, 2008, pp. 227-238.
- [De Jong, 1982] De Jong, D., De Jong, P.H., Goncalves, L.S., "Weight loss and other damage to developing worker honey bees from infestation with *Varroa jacobsoni*," J. Apic. Res., 21, 1982, pp. 165-167.
- [De Jong, 1983] De Jong, D., De Jong, P.H., "Longevity of Africanized honey bees (Hymenoptera: Apidae) infested by *Varroa jacobsoni*," J. Econ.

- Entomol., 76, 1983, pp. 766-768.
- [De Jong, 1988] De Jong, D., "Varroa jacobsoni does reproduce in worker cells of *Apis cerana* in South Korea," Apidologie, 19, 1988, pp. 241-244.
- [De Jong, 1997] De Jong, D., Soares, A.E.E., "An isolated population of Italian bees that has survived *Varroa jacobsoni* Oud. infestation without treatment for over 12 years," Am. Bee J., 137, 1997, pp. 742-747.
- [De Jong, 1997] De Jong, D., "Mites: *Varroa* and other parasites of brood," In: Morse RM, Flottum PK (eds) Honey bee pests, predators, and diseases, 3rd edition. Root, Medina, Ohio, 1997, pp. 281-327.
- [de la Rúa, 2000] de la Rúa, P., Simon, U.E., Tilde, A.C., Moritz, R.F.A., Fuchs, S., "MtDNA variation in *Apis cerana* populations from the Philippines," Heredity, 84, 2000, 124-130.
- [Delfinado, 1961] Delfinado, M., Baker, E.W., "Tropilaelaps, a new genus of mite from the Philippines (Laelapidae s. lat.)," Fieldiana Zool., 44, 1961, pp. 53-56.
- [Delfinado, 1963] Delfinado, M., "Mites of the honey bee in South-east Asia," J. Apic. Res., 2, 1963, pp. 113-114.
- [Delfinado-Baker, 1982] Delfinado-Baker, M., "New records for *Tropilaelaps clareae* from colonies of *Apis cerana indica*," Am. Bee J., 122, 1982, pp. 382.
- [Delfinado-Baker, 1987] Delfinado-Baker, M., Aggarwal K., 1987. Infestation of *Tropilaelaps clareae* and *Varroa jacobsoni* in *Apis mellifera ligustica* colonies in Papua New Guinea," Am. Bee J., 127, 1987, PP. 443.
- [Delfinado, 1988] Delfinado-Baker, M., "Variability and biotypes of *Varroa jacobsoni* Oudemans," Am. Bee J., 128, 1988, PP. 567-568.
- [Delfinado-Baker, 1989] Delfinado-Baker, M., Baker, E.W., Phoon, A.C.G., "Mites (Acari) associated with bees (Apidae) in Asia, with description of a new species," Am. Bee J., 129, 1989, pp. 609-610, 612-613.

- [Delfinado-Baker, 1989] Delfinado-Baker, M., Houck, M.A., "Geographical variation in *Varroa jacobsoni* (Acari, Varroidae): Application of multivariate morphometric techniques," Apidologie, 20, 1989, pp. 345-358.
- [Dietemann, 2013] Dietemann, V., Nazzi, F., Martin, S.J., Anderson, D.L., Locke, B., Delaplane, K.S., Wauquiez, Q., Tannahill, C., Frey, E., Ziegelmann, B., Rosenkranz, P., Ellis, J.D., "Standard methods for *Varroa* research," J. Apic Res., 2013, DOI: 10.3896/IBRA.1.52.1.09.
- [Dietz, 1988] Dietz, A., Herman, H.R., "Biology, detection and control of *Varroa jacobsoni*: A parasitic mite on honey bee," Lei-Act Publ, Comerce, GA.
- [Duay, 2002] Duay, P., De Jong, D., Engerls, W., "Decreased flight performance and sperm production in drones of the honey bee (*Apis mellifera*) slightly infested by *Varroa destructor* mites during pupal development," Genetics and Molecular Research, 1, 2002, pp. 227-232.
- [Duay, 2003] Duay, P., De Jong, D., Engerls, W., "Weight loss in drone pupa (*Apis mellifera*) multiply infested by *Varroa destructor* mites," Apidologie, 34, 2003, pp. 61-65.
- [Ellis, 2005] Ellis, J.D., Munn, P.A., "The worldwide health status of honey bees," Bee World, 84, 2005, pp. 88-101.
- [Eugaras, 1995] Eugaras, M., Marcangeli, J., Oppedisano, M., Fernandez, N., "Mortality and reproduction of *Varroa jacobsoni* in resistant colonies of honey bees (*Apis mellifera*) in Argentina," Bee Science, 3, 1995, 174-478.
- [Fajardo, 2004] Fajardo, A.C.Jr, Cervancia, C.R., "The growth of the Philippine bee industry," Buzz Philippines, 4, 2004, pp. 3-17.
- [Forsgren, 2009] Forsgren, E., De Miranda, J., Isaksson, M., Wei, S., Fries, I., "Deformed Wing Virus associated with *Tropilaelaps mercedesae*

- infesting European honey bees (*Apis mellifera*),” Exp. Appl. Acarol., 47, 2009, pp. 87-97.
- [Fuchs, 1990] Fuchs, S., “Preference for drone brood cells by *Varroa jacobsoni* Oud in colonies of *Apis mellifera carnica*,” Apidologie, 21, 1990, pp. 193-199.
- [Fuchs, 1998] Fuchs, S., Moritz, R.F.A., “Evolution of extreme polyandry in the honey bee,” Behav. Ecol. Sociobiol., 9, 1998, pp. 269-275.
- [Fries, 2003] Fries, I., Hansen, H., Imdorf, A., Rosenkranz, P., “Swarming in honey bees (*Apis mellifera*) and *Varroa destructor* population development in Sweden,” Apidologies, 34, 2003, pp., 389-398.
- [Garrido, 2003] Garrido, C., Rosenkranz, P., “The reproductive program of female *Varroa destructor* mites is triggered by its host *Apis mellifera*,” Exp. Appl. Acarol., 31, 2003, PP. 269-273.
- [Genersch, 2010] Genersch, E., “Honey bee pathology: current threats to honey bees and beekeeping,” Appl. Microbiol. Biotechnol., 87, 2010, pp. 87-97.
- [Griffiths, 1988] Griffiths, D., “Functional morphology of the mouthparts of *Varroa jacobsoni* and *Tropilaelaps clareae* as a basis for the interpretation of their life-styles,” In: Needham GR, Page RE, Delfinado-Baker M, Bowman CE (eds) Africanized honey bees and bee mites, NY, 1988, pp. 479-486.
- [Gunther, 1951] Gunther, C.E.M., “A mite from a beehive on Singapore Island (Acarina: Laelapidae),” Proc. Linnean Soc., 76, 1951, pp. 155.
- [Harbo, 1999] Harbo, J.R., Harris, J.W., “Selecting honey bees for resistance to *Varroa jacobsoni*,” Apidologie, 30, 1999, pp. 183-196.
- [Harbo, 2009] Harbo, J.R., Harris, J.W., “Responses to *Varroa* by honey bees with different levels of *Varroa* Sensitive Hygiene,” J. Apic. Res., 48, 2009, pp. 156-161.

- [Harris, 2001] Harris, J.W., Harbo, J.R., "Natural & suppressed reproduction of *Varroa destructor*," Bee Cult., 2001, pp. 34-38.
- [Henderson, 1991] Henderson, C.E., "Variability in the size of emerging drones and of drone and worker eggs in honey bee (*Apis mellifera* L.) colonies," J. Apic. Res., 31, 1991, pp. 114-118.
- [Hepburn, 2001] Hepburn, H.R., Smith, D.R., Radloff, S.E., Otis, G.W., "Infraspecific categories of *Apis cerana*: Morphometric, allozymal and mtDNA diversity, Apidologie, 32, pp. 3-23.
- [Human, 2013] Human, H., Brodschneider, R., Dietemann, V., Dively, G., Ellis, J., Forsgren, E., Fries, I., Hatjina, F., Hu, F.L., Jaffé, R., Köhler, A., Pirk, C.W.W., Rose, R., Strauss, U., Tanner, G.; Van Der Steen, J.J.M., Vejsnaes, F., Williams, G.R., Zheng, H.Q., "Miscellaneous standard methods for *Apis mellifera* research," J. Apic. Res., DOI: <http://dx.doi.org/10.3896/IBRA.1.52.4.10>.
- [Issa, 1984] Issa, M.R.C., Gonçalves, L., "Study on the preference of the acarid *Varroa jacobsoni* for drones of Africanized honey bees," In: Engels W (ed) Advances in invertebrate reproduction , Elsevier, Amsterdam, NY, Oxford, 3th, pp. 598.
- [Kapil, 1987] Kapil, R.P., Aggarwal, K., "Some observations on the concurrent parasitization of *Apis florea* by *Tropilaelaps clareae* and *Euvarroa sinhai*," Exp. Appl. Acarol., 3, 1987, pp. 267-269.
- [Kapil, 1989] Kapil, R.P., Aggarwal, K., "Observations on reproduction and seasonal population trends of *Euvarroa sinhai* (Mesostigmata: Varroidae) in India," In: Channabasavanna GP, Viraktamath CA (eds) Progress in acarology, Oxford and IBH, New Delhi, 1989, pp. 277-281.
- [Kavinseksan 2003] Kavinseksan, B., Wongsiri, S., de Guzman, L.I., Rinderer, T.E, "Absence of *Tropilaelaps* infestation from recent swarms of *Apis*

- dorsata* in Thailand,” J. Apic. Res., 42, 2003, pp. 49-50.
- [Kavinseksan, 2004] Kavinseksan, B., “Defense mechanism of *Apis dorsata* Fabricius and ARS primorsky honey bee *Apis mellifera* Linnaeus to the bee mite *Tropilaelaps clareae* Delfinado and Baker,” Ph.D. thesis, Chulalongkorn University, Thailand, 2004.
- [Khongphinitbunjong, 2013] Khongphinitbunjong, K., de Guzman, L.I., Buwangpong, N., Rinderer, T.E., Chantawannakul, P., “Observations on the removal response of brood inoculated with *Tropilaelaps mercedesae* (Mesostigmata: Laelapidae) and the mite’s reproductive success in *Apis mellifera* colonies,” Exp. Appl. Acarol., 2013, DOI: 10.1007/s10493-013-9728-0.
- [Kirrane, 2011] Kirrane, M.J., de Guzman, L.I., Rinderer, T.E., Frake, A.M., Wagnitz, J., Whelan, P.M., “Asynchronous development of honey bee host and *Varroa destructor* (Mesostigmata: Varroidae) influences reproductive potential of mites,” J. Econ. Entomol., 104, 2011, pp. 1146-1152.
- [Klein, 2007] Klein, A.M., Vaissiere, B.E., Cane, J.H., Steffan-Dewenter, I., Cunningham, S.A., Kremen, C., Tscharntke, T., “Importance of pollinators in changing landscapes for world crops,” Proceeding of Royal Society Biological Science London., 274, 2007, pp. 303-313.
- [Koeniger, 1980] Koeniger, N., Koeniger, G., “Observations and experiments on migration and dance communication of *Apis dorsata* in Sri Lanka,” J. Apic. Res., 29, 1980, pp. 21-34.
- [Koeniger, 1981] Koeniger, N., Koeniger, G., Wijayagunesekera, H.N.P., “Observations on the adaptation of *Varroa jacobsoni* to its natural host *Apis cerana* in Sri Lanka,” Apidologie, 12, 1981, pp. 37-40.
- [Koeniger, 1983] Koeniger, N., Koeniger, G., Delfinado-Baker, M., “Observations on

- mites of the Asian honeybee species (*Apis cerana*, *Apis dorsata*, *Apis florea*)," Apidologie, 14, 1983, pp. 197-204.
- [Koeniger, 1987] Koeniger, N., Koeniger, G., Delfinado-Baker, M., "The Asian honey bee (*Apis cerana*) and its mite *Varroa jacobsoni*," Imkerfreund, 42, 1987, pp. 303-306.
- [Koeniger, 1998] Koeniger, N., Musaffar, N., "Lifespan of the parasitic honey bee mite, *Tropilaelaps clareae*, on *Apis cerana*, *dorsata* and *mellifera*," J. Apic. Res., 27, 1998, pp. 207-212.
- [Kraus, 1995] Kraus, B., Hunt, G., "Differentiation of Varroa jacobsoni Oud. populations by random amplification of polymorphic DNA (RAPD), " Apidologie, 26, 1995, pp. 283-290.
- [Laigo, 1968] Laigo, F.M., Morse, R.A., "The mite *Tropilaelaps clareae* in *Apis dorsata* colonies in the Philippines," Bee Wld. 49, 1906, pp. 116-118.
- [Lee, 2005] Lee, M.L., Park, Y.M., Lee, M.Y., Kim, Y.S., Kim, H.K., "Density distribution of parasitic mites, *Varroa destructor* Anderson and Trueman and *Tropilaelaps clareae* Delfinado and Baker on honey bee pupae (*Apis mellifera* L.) in autumn season in Korea," Korean Journal Apiculture, 20, 2005, pp. 103-108.
- [Mangum, 2003] Mangum, W.A., "Bee adventures in Bangladesh," Am. Bee. J., 143, 2003, pp. 210-212.
- [Matheson, 1993] Matheson, A., "World bee health report," Bee World, 74, 1993, pp. 176-212.
- [Moretto, 1991] Moretto, G., Toncalves, L.S., De Jong, D.D., Bichuette, M.X., "The effects of climate and bee race on *Varroa jacobsoni* Oud. in several districts of Lombardy (Italy)," Apidologies, 26, 1991, pp. 67-72.
- [Moritz, 1984] Moritz, R.F.A., Haenel, H., "Restricted development of the parasitic mite *Varroa jacobsoni* Oud. in the Cape honey bee *Apis mellifera*

- capensis*,” Esch. Zeitschrift für Angewandte Entomologie97, 1984, pp. 91-95.
- [Morse, 1969] Morse, R.A., Laigo, F.M., “*Apis dorsata* in the Philippines,” Philippine Association of Entomologists, 1969.
- [Morse, 1990] Morse, R.A., “Species of *Apis*. In: Morse, R.A., Nowogrodzki, R. (2nd ed.),” *Honey Bee Pests, Predators and Diseases*. Cornell University Press., New York, US, 1990, pp. 363-370.
- [Navajas, 2010] Navajas, M., Anderson, D.L., de Guzman, L.I., Huang, Z.Y., Clement, J., Zhou, T., Conte, Y.L., “New Asian types of *Varroa destructor*: a potential new threat for world apiculture,” Apidologie, 41, 2010, pp. 181-193.
- [Oldroyd, 2000] Oldroyd, B.P., Osborne, K.E., Mardan, M., “Colony relatedness in aggregations of *Apis dorsata* Fabricius (Hymenoptera, Apidae),” Insects. Soc., 47, 2000, 94-95.
- [Oldroyd, 2006] Oldroyd, B.P., Wongsiri, S., *Asian honey bees: biology, conservation, and human interactions*, Harvard University Press, Cambridge, CA, 2006.
- [Oudemans, 1904] Oudemans, A.C., “On a new genus and species of parasitic acari, ” Notes. Leyden Mus. 24, 1904, pp. 216-222.
- [Peng, 1987] Peng, Y.S., Fang, Y., Xu S., Ye, L., “The resistance mechanism of the Asian honey bee, *Apis cerana* Fabr., to an ectoparasitic mite, *Varroa jacobsoni* Oudemans,” J. Invert. Pathol., 49, 1987, pp. 54-60.
- [Pettis, 2012] Pettis, J.S., Rose, R., Lichtenberg, E.M., Chantawannakul, P., Buawangpong, N., Somana, W., Sukumalanand, P., VanEngelsdorp, D., “A rapid survey technique for *Tropilaelaps* mite (Mesostigmata: Laelapidae) detection,” J. Econ. Entomol., 106, 2012, pp. 1535-1544.
- [Rath, 1990] Rath, W., Drescher, W., “Responses of *Apis cerana* Fabr towards brood infested with *Varroa jacobsoni* Oud and infestation rate of

- colonies in Thailand," *Apidologie*, 21, 1990, pp. 311-321.
- [Rath, 1991] Rath, W., Delfinado-Baker, M., Drescher, W., "Observations on the mating behavior, sex ratio phoresy and dispersal of *Tropilaelaps clareae* (Acari: Laelapidae)," *Int. J. Acarol.*, 17, 1991, pp. 201-208.
- [Rath, 1999] Rath, W., "Co-adaptation of *Apis cerana* Fabr. and *Varroa jacobsoni* Oud.," *Apidologie*, 30, 1999, pp. 97-110.
- [Rinderer, 1994] Rinderer, T.E., Oldroyd, B.P., Lekprayoon, C., Wongsiri, S., Thapa, R., "Extended survival of the parasitic mite *Tropilaelaps clareae* on adult workers of *Apis mellifera* and *Apis dorsata*," *J. Apic. Res.*, 33, 1994, pp. 171-174.
- [Rinderer, 2001] Rinderer, T.E., de Guzman L.I., Delatte, G.T., Stelzera, J.A., Lancaster, V.A., Kuznetsov, V., Beaman, L., Watts, R., Harris, J.W., "Resistance to the parasitic mite *Varroa destructor* in honey bees from far-eastern Russia," *Apidologie*, 32, 2001, pp. 381-394.
- [Rinderer, 2004] Rinderer, T.E., de Guzman, L.I., Sylvester, H.A., "Re-examination of the efficacy of a detergent solution for *Varroa* mite detection," *Am. Bee J.*, 144, 2004, pp. 506-562.
- [Ritter, 1981] Ritter, W., "Varroa disease of the honeybee (*Apis mellifera*)," *Bee World*, 62, 1981, pp. 144-153.
- [Ritter, 1988] Ritter, W., Schneider-Ritter, U., "Differences in biology and means of controlling *Varroa jacobsoni* and *Tropilaelaps clareae*, two novel parasitic mites of *Apis mellifera*," In: Needham GR, Page RE Jr, Delfinado-Baker M, Bowan CE (eds) *Africanized honey bees and bee mites*, Halsted Press, New York, 1988, pp. 387-395.
- [Ritter, 1990] Ritter, W., Michel, P., Bartholdi, M., Schwendemann, A., "Development of tolerance to *Varroa jacobsoni* in bee colonies in

- Tunisia," In: Ritter W (ed) Proceedings of international symposium on recent research in bee pathology, Apimondia, 1990, pp. 54-59.
- [Rogers, 1983] Rogers, L.E., Gilbert, R.O., Burgett, M., "Sampling honeybee colonies for brood production: a double sampling technique," J. Apic. Res., 22, 1983, 232-241.
- [Ruttner, 1988] Ruttner, F., *Biogeography and taxonomy of honeybees*, Berlin: Springer, 1988, pp. 284.
- [Sammatoro, 2000] Sammatoro,D., Gerson, U., Needham, G, "Parasitic mites of honey bees: life history, implications, and impact," Annu. Rev. Entomol., 45, 2000, pp. 519-548.
- [Sanpa, 2009] Sanpa, S., Chantawannakul, P., "Survey of six bee viruses using RT-PCR in Northern Thailand," J. Invert. Pathol., 100, 2009, pp. 116-119.
- [Seeley, 1989] Seeley, T., "The wisdom of the hive: the social physiology of honey bee colonies," Harvard University Press, Cambridge, pp. 295.
- [Shimanuki, 1994] Shimanuki, H., Calderone, N.W. Knox, D.A., "Parasitic mite syndrome: the symptoms. Am. Bee J., 134, 1994, pp. 827-828.
- [Sihag, 1988] Sihag, R.C., "Incidence of *Varroa*, *Euvarroa* and *Tropilaelaps* mites in the colonies of honey bees *Apis mellifera* L. in Haryana (India)," Am. Bee. J., 128, 1988, pp. 212-213.
- [Smith, 1996] Smith, D.R., Hagen, R.H., "The biogeography of *Apis cerana* as revealed by mitochondrial DNA sequence data," J. Kans. Ent. Soc., 69, 1996, pp. 249-310.
- [Smith, 1999] Smith, D.R., Hagen, R.H., "Phylogeny and Biogeography of *Apis cerana* subspecies: testing alternative hypotheses," In: Hoopingarner

- R, Connor L (eds) Apiculture for the 21st Century, Wicwas Press, Cheshire, CT.
- [Smith, 2000] Smith, D.R., Villafuerte, L., Otis, G., Palmer, M.R., "Biogeography of *Apis cerana* F. and *A. nigrocincta* Smith: Insights from mtDNA studies," *Apidologie*, 31, 2000, pp. 265-279.
- [Solignac, 2003] Solignac, M., Vautrin, D., Pizzo, A., Navajas, M., Le Conte, Y., Cornuet, J., "Characterization of microsatellite markers from the apicultural pest *Varroa destructor* (Acari: Varroidae) and its relatives," *Mol. Ecol. Notes*, 3, 2003, pp. 556-559.
- [SPSS, 2012] SPSS Inc. (2012) The IBM SPSS statistics 21 core system user's guide, Chicago, USA.
- [Tan, 2007] Tan, N.Q., "Biology of *Apis dorsata* in Vietnam," *Apidologie*, 38, 2007, pp. 221-229.
- [vanEngelsdorp, 2007] vanEngelsdorp, D., Underwood, R., Caron, D., Hayes, J., "An estimate of managed colony losses in the winter of 2006-2007: A report commissioned by the apiary inspectors of America," *Am. Bee J.*, 147, 2007, pp. 599-603.
- [vanEngelsdorp, 2009] vanEngelsdorp, D., Evans, J.D., Saegerman, C., Mullin, C., Haubruge, E., Nguyen, B.K., Frazier, M., Frazier, J., Cox-Foster, D., Chen, Y., Underwood, R., Tarpy, D.R., Pettis, J.S., "Colony collapse disorder: a descriptive study," *PLoS ONE*, 4, 2009, e6481.
- [Vetharaniam, 2006] Vetharaniam, I., Barlow, N.D., "Modeling biocontrol of *Varroa destructor* using a benign haplotype as a competitive antagonist," *New Zealand Journal Ecology*, 30, 2006, pp. 87-102.
- [White, 1990] White, T.J., Bruns, T., Lee, S., Taylor, J., "Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics," In:

- Innis, M.A., Gelfand, D.H., Shinsky, J.J., White, T.J., editors. PCR Protocols: A Guide to Methods and Applications, Academic Press, San Diego, 1990, pp. 315-322.
- [Warrit, 2006] Warrit, N., Smith, D.R., Lekprayoon, C., "Genetic subpopulations of *Varroa* mites and their *Apis cerana* hosts in Thailand," Apidologie, 37, 2006, pp. 19-30.
- [Warrit, 2011] Warrit, N., Lekprayoon, C., "Honey bee mites of Asia," In: Hepburn HR, Radloff SE, (eds) Honey bees of Asia. Springer-Verlag, Berlin-Heidelberg, Germany, 2011, pp. 347-368.
- [Winston, 1987] Winston, M.L., *The biology of the honey bee*. Harvard University Press, Cambridge, Massachusetts, US, 1987, pp. 281.
- [Wongsiri, 2000] Wongsiri, S., Chanchao, C., Lekprayoon, C., Wattanasermkit, K., Deowanish, S., Leepitakrat, S., "Honey bee diversity and management in the new millennium in Thailand," In: Proc. VIIth Int. Conf. on Tropical Bees: Management and Diversity and Vth Asian Apicultural Association Conf., Chiang Mai, Thailand, IBRA, 2000, pp. 9-14.
- [Woo, 1993] Woo, K.S., Lee, J.H., "The study on the mites inhabiting the bee-hives in Korea I," Korean J. Apiculture, 8, 1993, pp. 140-156.
- [Woyke, 1987a] Woyke, J., "Comparative population dynamics of *Tropilaelaps clareae* and *Varroa jacobsoni* mites in honeybees," J. Apic. Res., 26, 1987, pp. 196-202
- [Woyke, 1987b] Woyke, J., "Length of stay of the parasitic mite *Tropilaelaps clareae* outside sealed honeybee brood cells as a basis for its effective control," J. Apic. Res., 26, 1987, pp. 104-109.
- [Woyke, 1987c] Woyke, J., "Length of successive stages in the development of the mite *Tropilaelaps clareae* in relation to honeybee brood age," J. Apic. Res., 26, 1987, pp. 110-114.
- [Woyke, 1989] Woyke, J., "Change in shape of *Tropilaelaps clareae* females and the

- onset of egg laying, J. Apic. Res., 28, 1989, pp. 196-200.
- [Woyke, 1990] Woyke, J., "Biology and control of the parasitic mite *Tropilaelaps clareae*," Proceedings of the Apimondia symposium; Recent research on bee pathology, Gent, Belgium, 1990, pp. 90-99.
- [Woyke, 1994] Woyke, J., "Mating behavior of the parasitic honey bee mite *Tropilaelaps clareae*," Exp. Appl. Acarol., 18, 1994, pp. 723-733.
- [Woyke, 2000] Woyke J., Wilde J. and Wilde M., "Swarming, migrating and absconding of *Apis dorsata* colonies," In: Proceeding of the 7th international conference on Tropical bees, Management and diversity, Chiang Mai, Thailand, 2000.
- [Woyke, 2004] Woyke, J., Wilde, J., Reddy, C.C., "Open-air-nesting honey bee *Apis dorsata* and *Apis laboriosa* differ from the cavity-nesting *Apis mellifera* and *Apis cerana* in brood hygiene behavior," J. Invert. Patho., 86, 2004, pp. 1-6.

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