



ผู้ช่วยศาสตราจารย์ วราภรณ์ จันทร์จำนงค์

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#### Education:

B.Sc.(Biochemistry), Faculty of Science, Chulalongkorn University, Thailand, ๒๐๐๐

Ph.D.(Biochemistry), Faculty of Science, Chulalongkorn University, Thailand, ๒๐๐๗

#### Research area of interest:

Insecticide toxicology and biochemistry

#### Courses taught:

๐๑๐๐๔๒๑๑ Insect Science

๐๑๐๐๔๔๘๑ Insecticides and Their Application

๐๑๐๐๔๕๔๒ Insect Physiology

๐๑๐๐๔๕๘๑ Advanced Insecticide Toxicology I

๐๑๐๐๔๕๘๒ Phytochemicals in Entomology

๐๑๐๐๔๕๙๑ Research Methods in Entomology

#### Executive committee:

The Worldwide Insecticide resistance Network (WIN)

#### Research programs:

The development of insecticide resistance is a primary concerns for the management of insect pest control. A better understanding of insecticide susceptibility level and resistance mechanisms will allow for greater efficiency in insect pest control program. Therefore, our laboratory are focusing on insecticide resistance in *Aedes aegypti* which is primary dengue vector and also phosphine resistance in *Cryptolestes* spp. which is economically important pests of stored products in Thailand.

#### Publications:

Nicole L. Achee, John P. Grieco, Hassan Vatandoost, Gonçalo Seixas, Joao Pinto, Lee Ching-NG, Ademir J. Martins, Waraporn Juntarajumnong, Vincent Corbel, Clement Gouagna, Jean-Philippe David, James G. Logan, James Orsborne, Eric Marois, Gregor J. Devine, John Vontas. 2015. Alternative strategies for mosquito-borne arbovirus control. PLOS Neglected Tropical Diseases. 9(1): e0003822.

Thavin Bodharamik, Waraporn Juntarajumnong, Chamnarn Apiwathnasorn, Sungsit Sungvornyothin, and Uraiwan Arunyawat. 2015. Diversity Of Mosquito Species Ovipositing In Different Zones of Light Intensity Within Limestone Caves In Thailand. Journal of the American Mosquito Control Association. 31 (1): 152-155.

Vincent Corbel, Dina M. Fonseca, David Weetman, João Pinto, Nicole L. Achee, Fabrice Chandre, Mamadou B. Coulibaly, Isabelle Dusfour, John Grieco, Waraporn Juntarajumnong, Audrey Lenhart, Ademir J. Martins, Catherine Moyes, Lee Ching Ng, Kamaraju Raghavendra, Hassan Vatandoost, John Vontas, Pie Muller, Shinji Kasai, Florence Fouque, Raman Velayudhan, Claire Durot and Jean-Philippe David. 2015. Erratum to: International workshop on insecticide resistance in vectors of arboviruses, December 2014, Rio de Janeiro, Brazil. Parasites & Vectors. 8:156.

Phanitchat, T., Apiwathnasorn, C., Sumroiphon, S., Samung, Y., Naksathit, A., Thawornkuno, C., Juntarajumnong, W., Sungvornyothin, S. 2015. The influence of temperature on the developmental rate and survival of *Aedes albopictus* in Thailand. Southeast Asian Journal of Tropical Medicine and Public Health. 46 (4): 755-758.

Vincent Corbel, Dina M. Fonseca, David Weetman, João Pinto, Nicole L. Achee, Fabrice Chandre, Mamadou B. Coulibaly, Isabelle Dusfour, John Grieco, Waraporn Juntarajumnong, Audrey Lenhart, Ademir J. Martins, Catherine Moyes, Lee Ching Ng, Kamaraju Raghavendra, Hassan Vatandoost, John Vontas, Pie Muller, Shinji Kasai, Florence Fouque, Raman Velayudhan, Claire Durot and Jean-Philippe David. 2015. International workshop on insecticide resistance in vectors of arboviruses, December 2014, Rio de Janeiro, Brazil. Parasites & Vectors. 8:157

Frederic Faucon, Thierry Gaude, Isabelle Dusfour, Vincent Navratil, Vincent Corbel, Waraporn Juntarajumnong, Romain Girod, Rodolphe Poupardin, Frederic Boyer, Stephane Reynaud, Jean-Philippe David. 2017. In the hunt for genomic markers of metabolic resistance to pyrethroids in the mosquito *Aedes aegypti*: An integrated next-generation sequencing approach. PLOS Neglected Tropical Diseases. 11(4): e0005412.

Vincent Corbel , Nicole L. Achee, Fabrice Chandre, Mamadou B. Coulibaly, Isabelle Dusfour, Dina M. Fonseca, John Grieco, Waraporn Juntarajumnong, Audrey Lenhart, Ademir J. Martins, Catherine Moyes, Lee Ching Ng, João Pinto, Kamaraju Raghavendra, Hassan Vatandoost, John Vontas, David Weetman, Florence Fouque, Raman Velayudhan, Jean-Philippe David. 2016. Tracking Insecticide Resistance in Mosquito Vectors of Arboviruses: The Worldwide Insecticide resistance Network (WIN). PLoS Neglected Tropical Diseases. 10(12): e0160544.

Faucon, F., I. Dusfour, T. Gaude, V. Navratil, F. Boyer, F. Chandre, P. Sirisopa, K. Thanispong, W. Juntarajumnong, R. Poupardin, T. Chareonviriyaphap, R. Girod, V. Corbel, S. Reynaud and J.P. David. 2015. Identifying genomic changes associated with insecticide resistance in the dengue mosquito *Aedes aegypti* by deep targeted sequencing. Genome Research. 25(9): 1347-1359.

Sirisopa, P., K. Thanispong, T. Chareonviriyaphap and W. Juntarajumnong. 2014. Resistance to synthetic pyrethroids in *Aedes aegypti* (Diptera: Culicidae) in Thailand. Kasetsart Journal: Natural Science. 48(4): 577-586.

Juntarajumnong, W., S. Pimnon, M.J. Bangs, K. Thanispong and T. Chareonviriyaphap. 2012. Discriminating lethal concentrations and efficacy of six pyrethroids for control of *Aedes aegypti* in Thailand. Journal of the American Mosquito Control Association. 28(1):30-37.

Tananchai, C., R. Tisgratog, W. Juntarajumnong, J.P. Grieco, S. Manguin, A. Prabaripai and T. Chareonviriyaphap. 2012. Species diversity and biting activity of *Anopheles dirus* and *Anopheles baimaii* (Diptera: Culicidae) in a malaria prone area of western Thailand. Parasites & Vectors. 5: 211-218.

- Tisgratog, R., C. Tananchai, W. Juntarajumnong, S. Tuntakom, M.J. Bangs, V. Corbel and T. Chareonviriyaphap. 2012. Host feeding patterns and preference of *Anopheles minimus* (Diptera: Culicidae) in a malaria endemic area of western Thailand: baseline site description. *Parasites & Vectors*. 5: 114-123.
- Malaithong, N., R. Tisgratog, K. Tainchum, A. Prabaripai, W. Juntarajumnong, M.J. Bangs and T. Chareonviriyaphap. 2011. Locomotor behavioral responses of *Anopheles minimus* and *Anopheles harrisoni* to alpha-cypermethrin in Thailand. *Journal of the American Mosquito Control Association*. 27(3): 217-226.
- Chuaycharoensuk, T., W. Juntarajumnong, W. Boonyuan, M.J. Bangs, P. Akkratanakul, S. Thammaphalo, N. Jirakanjanakit, S. Tanasinchayakul and T. Chareonviriyaphap. 2011. Frequency of pyrethroid resistance in *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae) in Thailand. *Journal of Vector Ecology*. 36(1): 204-212.
- Tisgratog, R., C. Tananchai, M.J. Bangs, K. Tainchum, W. Juntarajumnong, A. Prabaripai, K.R. Chauhan, J. Pothikasikorn and T. Chareonviriyaphap. 2011. Chemically induced behavioral responses in *Anopheles minimus* and *Anopheles harrisoni* in Thailand. *Journal of Vector Ecology*. 36(2): 321-331.