

REFERENCES

- Al-Ahdal MN, Al-Hussain K, Thorogood RJ, Reilly HC, Wilson JD. (1990) Protein constituents of mosquito saliva: studies on *Culex molestus*. J Trop Med Hyg 93:98-105.
- Alberts B, Johnson A, Lewis J, Raff M, Roberts K, Walter P. (2002) Molecular biology of the cell. Garland Science, New York.
- Alves-Silva J, Ribeiro JM, Van Den Abbeele J, Attardo G, Hao Z, Haines LR, Soares MB, Berriman M, Aksoy S, Lehane MJ. (2010) An insight into the sialome of *Glossina morsitans morsitans*. BMC Genomics 11:213.
- Angermayr M, Bandlow W. (1997) The type of basal promoter determines the regulated or constitutive mode of transcription in the common control region of the yeast gene pair GCY1/RIO1. J Biol Chem 272:31630-31635.
- Anttonen AK, Mahjneh I, Hämäläinen RH, Lagier-Tourenne C, Kopra O, Waris L, Anttonen M, Joensuu T, Kalimo H, Paetau A, Tranebjærg L, Chaigne D, Koenig M, Eeg-Olofsson O, Udd B, Somer M, Somer H, Lehesjoki AE. (2005) The gene disrupted in Marinesco-Sjögren syndrome encodes SIL1, an HSPA5 cochaperone. Nat Genet 37:1309-1311.
- Apiwathnasorn C, Prommongkol S, Samung Y, Limrat D, Rojruthai B. (2002) Potential for *Anopheles campestris* (Diptera: Culicidae) to transmit malaria parasites in Pa Rai subdistrict (Aranyaprathet, Sa Kaeo province), Thailand. J Med Entomol 39:583-586.
- Arca B, Lombardo F, Capurro M, della Torre A, Spanos L, Dimopoulos G, Louis C, James AA, Coluzzi M. (1999a) Salivary gland-specific gene expression in the malaria vector *Anopheles gambiae*. Parasitologia 41:483-487.
- Arca B, Lombardo F, de Lara Capurro M, della Torre A, Dimopoulos G, James AA, Coluzzi M. (1999b) Trapping cDNAs encoding secreted proteins from the salivary glands of the malaria vector *Anopheles gambiae*. Proc Natl Acad Sci USA 96:1516-1521.
- Arca B, Lombardo F, Lanfrancotti A, Spanos L, Veneri M, Louis C, Coluzzi M. (2002) A cluster of four D7-related genes is expressed in the salivary glands of the African malaria vector *Anopheles gambiae*. Insect Mol Biol 11:47-55.

- Arca B, Lombardo F, Valenzuela JG, Franscischetti IM, Marinotti O, Coluzzi M, Ribeiro JMC. (2005) An updated catalogue of salivary gland transcripts in the adult female mosquito, *Anopheles gambiae*. *J Exp Biol* 208:3971-3986.
- Arensburger P, Megy K, Waterhouse RM, Abrudan J, Amedeo P, Antelo B, Bartholomay L, Bidwell S, Caler E, Camara F, Campbell CL, Campbell KS, Casola C, Castro MT, Chandramouliwaran I, Chapman SB, Christley S, Costas J, Eisenstadt E, Feschotte C, Fraser-Liggett C, Guigo R, Haas B, Hammond M, Hansson BS, Hemingway J, Hill SR, Howarth C, Ignell R, Kennedy RC, Kodira CD, Lobo NF, Mao C, Mayhew G, Michel K, Mori A, Liu N, Naveira H, Nene V, Nguyen N, Pearson MD, Pritham EJ, Puiu D, Qi Y, Ranson H, Ribeiro JM, Roberston HM, Severson DW, Shumway M, Stanke M, Strausberg RL, Sun C, Sutton G, Tu ZJ, Tubio JM, Unger MF, Vanlandingham DL, Vilella AJ, White O, White JR, Wondji CS, Wortman J, Zdobnov EM, Birren B, Christensen BM, Collins FH, Cornel A, Dimopoulos G, Hannick LI, Higgs S, Lanzaro GC, Lawson D, Lee NH, Muskavitch MA, Raikhel AS, Atkinson PW. (2010) Sequencing of *Culex quinquefasciatus* establishes a platform for mosquito comparative genomics. *Science* 330:86-88.
- Bahia D, Gontijo NF, León IR, Perales J, Pereira MH, Oliveira G, Corrêa-Oliveira R, Reis AB. (2007) Antibodies from dogs with canine visceral leishmaniasis recognise two proteins from the saliva of *Lutzomyia longipalpis*. *Parasitol Res* 100:449-454.
- Baimai V, Rattanarithikul R, Kijchalao U. (1995) Metaphase karyotypes of *Anopheles* of Thailand and Southeast Asia: IV. The barbirostris and umbrosus species groups, subgenus *Anopheles* (Diptera: Culicidae). *J Am Mosq Control Assoc* 11:323-328.
- Baker EZ, Beier JC, Meek SR, Wirtz RA. (1987) Detection and quantification of *Plasmodium falciparum* and *P. vivax* infections in Thai-Kampuchean *Anopheles* (Diptera: Culicidae) by enzyme-linked immunosorbent assay. *J Med Entomol* 24: 536-541.
- Beebe NW, Saul A. (1995) Discrimination of all members of the *Anopheles punctulatus* complex by polymerase chain reaction-restriction fragment length polymorphism analysis. *Am J Trop Med Hyg* 53:478-481.
- Boccalatte FE, Voena C, Riganti C, Bosia A, D'Amico L, Riera L, Cheng M, Ruggeri B, Jensen ON, Goss VL, Lee K, Nardone J, Rush J, Polakiewicz RD, Comb MJ, Chiarle R,

- Inghirami G. (2009) The enzymatic activity of 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase is enhanced by NPM-ALK: new insights in ALK-mediated pathogenesis and the treatment of ALCL. *Blood* 113:2776-2790.
- Brennan JDG, Kent M, Dhar R, Fujioka H, Kumar N. (2000) *Anopheles gambiae* salivary gland proteins as putative targets for blocking transmission of malaria parasites. *Proc Natl Acad Sci USA* 97:13859-13865.
- Calvo E, Anderson J, Francischetti IM, de LCM, deBianchi AG, James AA, Ribeiro JMC, Marinotti O. (2004) The transcriptome of adult female *Anopheles darlingi* salivary glands. *Insect Mol Biol* 13:73-88.
- Calvo E, Mans BJ, Andersen JF, Ribeiro JM. (2006a) Function and evolution of a mosquito salivary protein family. *J Biol Chem* 281:1935-1942.
- Calvo E, Pham VM, Lombardo F, Arca B, Ribeiro JM. (2006b) The sialotranscriptome of adult male *Anopheles gambiae* mosquitoes. *Insect Biochem Mol Biol* 36:570-575.
- Calvo E, Dao A, Pham VM, Ribeiro JM. (2007) An insight into the sialome of *Anopheles funestus* reveals an emerging pattern in anopheline salivary protein families. *Insect Biochem Mol Biol* 37:164-175.
- Calvo E, Pham VM, Marinotti O, Andersen JF, Ribeiro JM. (2009) The salivary gland transcriptome of the neotropical malaria vector *Anopheles darlingi* reveals accelerated evolution of genes relevant to hematophagy. *BMC Genomics* 10:57.
- Cázares-Raga FE, González-Lázaro M, Montero-Solís C, González-Cerón L, Zamudio F, Martínez-Barnetche J, Torres-Monzón JA, Ovilla-Muñoz M, Aguilar-Fuentes J, Rodríguez MH, de la Cruz Hernández-Hernández F. (2007) GP35 ANOAL, an abundant acidic glycoprotein of female *Anopheles albimanus* saliva. *Insect Mol Biol* 16:187-198.
- Champagne DE, Smartt CT, Ribeiro JM, James AA. (1995) The salivary gland-specific apyrase of the mosquito *Aedes aegypti* is a member of the 5'-nucleotidase family. *Proc Natl Acad Sci U S A* 92:694-698.
- Charlab R, Valenzuela JG, Rowton ED, Ribeiro JM. (1999) Toward an understanding of the biochemical and pharmacological complexity of the saliva of a hematophagous sand fly *Lutzomyia longipalpis*. *Proc Natl Acad Sci U S A* 96:15155-15160.

- Chen HH, Zhang RL, Geng YJ, Cheng JQ, Zhang SX, Huang DN, Yu L, Gao ST, Zhu XQ. (2007) Identification of differentially expressed genes in female *Culex pipiens pallens*. Parasitol Res 101:511-515.
- Choochote W, Sucharit S, Abeywickreme W. (1983) Experiments in crossing two strains of *Anopheles barbirostris* Van der Wulp 1884 (Diptera: Culicidae) in Thailand. Southeast Asian J Trop Med Public Health 14:204-209.
- Choumet V, Carmi-Leroy A, Laurent C, Lenormand P, Rousselle JC, Namane A, Roth C, Brey PT. (2007) The salivary glands and saliva of *Anopheles gambiae* as an essential step in the *Plasmodium* life cycle: a global proteomic study. Proteomics 7:3384-3394.
- Dana AN, Hong YS, CERN MK, Hillenmeyer ME, Harper BW, Lobo NF, Hogan JR, Romans P, Collins FH. (2005) Gene expression patterns associated with blood-feeding in the malaria mosquito *Anopheles gambiae*. BMC Genomics 6:5.
- Das S, Radtke A, Choi YJ, Mendes AM, Valenzuela JG, Dimopoulos G. (2010) Transcriptomic and functional analysis of the *Anopheles gambiae* salivary gland in relation to blood feeding. BMC Genomics 11:566.
- Dillon RJ, el-Kordy E. (1997) Carbohydrate digestion in sandflies: alpha-glucosidase activity in the midgut of *Phlebotomus langeroni*. Comp Biochem Physiol B Biochem Mol Biol 116:35-40.
- Dong F, Fu Y, Li X, Jiang J, Sun J, Cheng X. (2012) Cloning, expression, and characterization of salivary apyrase from *Aedes albopictus*. Parasitol Res 110:931-937.
- Drame PM, Poinsignon A, Besnard P, Cornelie S, Le Mire J, Toto JC, Foumane V, Dos-Santos MA, Sembène M, Fortes F, Simondon F, Carnevale P, Remoue F. (2010) Human antibody responses to the *Anopheles* salivary gSG6-P1 peptide: a novel tool for evaluating the efficacy of ITNs in malaria vector control. PLoS One 5:e15596.
- Eliason DA. (1963) Feeding adult mosquitoes on solid sugars. Nature 200:289.
- Frances SP, Klein TA, Wirtz RA, Eamsila C, Pilakasiri C, Linthicum KJ. (1996) *Plasmodium falciparum* and *P. vivax* circumsporozoite proteins in anophelines (Diptera: Culicidae) collected in eastern Thailand. J Med Entomol 33: 990-991.

- Francischetti IM, Valenzuela JG, Pham VM, Garfield MK, Ribeiro JMC. (2002) Toward a catalog for the transcripts and proteins (sialome) from the salivary gland of the malaria vector *Anopheles gambiae*. *J Exp Biol* 205:2429-2451.
- Francischetti IM, Valenzuela JG, Ribeiro JM. (1999) Anophelin: kinetics and mechanism of thrombin inhibition. *Biochemistry* 38:16678-16685.
- Geng YJ, Gao ST, Huang DN, Zhao YR, Liu JP, Li XH, Zhang RL. (2009) Differentially expressed genes between female and male adult *Anopheles anthropophagus*. *Parasitol Res* 105:843-851.
- Ghorbel MT, Murphy D. (2011) Suppression subtractive hybridization. *Methods Mol Biol* 789:237-259.
- Gingrich JB, Weatherhead A, Sattabongkot J, Pilakasiri C, Wirtz RA. (1990) Hyperendemic malaria in a Thai village: Dependence of year-round transmission on focal and seasonally circumscribed mosquito (Diptera: Culicidae) habitats. *J Med Entomol* 27: 1016-1026.
- Gontijo NF, Almeida-Silva S, Costa FF, Mares-Guia ML, Williams P, Melo MN. (1998) *Lutzomyia longipalpis*: pH in the gut, digestive glycosidases, and some speculations upon *Leishmania* development. *Exp Parasitol* 90:212-219.
- Gould DJ, Esah S, Pranith U. (1967) Relation of *Anopheles aconitus* to malaria transmission in the central plain of Thailand. *Trans R Soc Trop Med Hyg* 61: 441-442.
- Green CA, Rattanarithikul R, Pongprasit S, Sawadwongporn P, Baimai V. (1991) A newly-recognized vector of human malarial parasites in the Oriental region, *Anopheles (Cellia) pseudowillmori* (Theobald, 1910). *Trans R Soc Trop Med Hyg* 85: 35-36.
- Harbach RE, Gingrich JB, Pang LW. (1987) Some entomological observations and malaria transmission in a remote village in Northwestern Thailand. *J Am Mosq Control Assoc* 3: 296-301.
- Harrison BA. (1980) Medical entomology studies: XIII. The Myzomyia series of *Anopheles (Cellia)* in Thailand, with emphasis of intra-interspecific variations (Diptera: Culicidae). *Contrib Am Entomol Inst* 17: 1-195.
- Hayashi H, Kyushiki H, Nagano K, Sudo T, Matsuoka H, Yoshida S. (2012) Anopheline anti-platelet protein from a malaria vector mosquito has anti-thrombotic effects *in vivo* without compromising hemostasis. *Thromb Res* 129:169-175.

- Isawa H, Orito Y, Iwanaga S, Jingushi N, Morita A, Chinzei Y, Yuda M. (2007) Identification and characterization of a new kallikrein-kinin system inhibitor from the salivary glands of the malaria vector mosquito *Anopheles stephensi*. Insect Biochem Mol Biol 37:466-477.
- Iyengar MOT. (1953) Filariasis in Thailand. Bull WHO 9:731-766.
- Jacobson RL, Schlein Y. (2001) *Phlebotomus papatasi* and *Leishmania major* parasites express alpha-amylase and alpha-glucosidase. Acta Trop 78:41-49.
- James AA. (2003) Blocking malaria parasite invasion of mosquito salivary glands. J Exp Biol 206:3817-3821.
- James AA, Blackmer K, Marinotti O, Ghosn CR, Racioppi JV. (1991) Isolation and characterization of the gene expressing the major salivary gland protein of the female mosquito, *Aedes aegypti*. Mol Biochem Parasitol 44:245-253.
- James AA, Blackmer K, Racioppi JV. (1989) A salivary gland-specific, maltase-like gene of the vector mosquito, *Aedes aegypti*. Gene 75:73-83
- Jaresitthikunchai J, Phaonakrop N, Kittisenachai S, Roytrakul S. (2009) Rapid in-gel digestion protocol for protein identification by peptide mass fingerprint. In: Proceeding of the 2nd biochemistry and molecular biology conference: biochemistry and molecular biology for regional sustainable development. May 7-8 Khon Kaen, Thailand, p 29.
- Jariyapan N, Choochote W, Jitpakdi A, Harnnoi T, Siriyasatein P, Wilkinson MC, Bates PA. (2006) A glycine- and glutamate-rich protein is female salivary gland-specific and abundant in the malaria vector *Anopheles dirus* B (Diptera: Culicidae). J Med Entomol 43:867-874.
- Jariyapan N, Choochote W, Jitpakdi A, Harnnoi T, Siriyasatein P, Wilkinson M, Junkum A, Bates PA. (2007) Salivary gland proteins of the human malaria vector, *Anopheles dirus* B (Diptera: Culicidae). Rev Inst Med trop S Paulo 49:5-10.
- Jariyapan N, Baimai V, Poovorawan Y, Roytrakul S, Saeung A, Thongsahuan S, Suwannamit S, Otsuka Y, Choochote W. (2010) Analysis of female salivary gland proteins of the *Anopheles barbirostris* complex (Diptera: Culicidae) in Thailand. Parasitol Res 107:509-516.

- Jariyapan N, Roytrakul S, Paemanee A, Junkum A, Saeung A, Thongsahuan S, Sor-Suhan S, Phattanawiboon B, Poovorawan Y, Choochote W. (2012) Proteomic analysis of salivary glands of female *Anopheles barbirostris* species A2 (Diptera: Culicidae) by two-dimensional gel electrophoresis and mass spectrometry. Parasitol Res 111:1239-1249.
- Juhn J, Naeem-Ullah U, Maciel Guedes BA, Majid A, Coleman J, Paolucci Pimenta PF, Akram W, James AA, Marinotti O. (2011) Spatial mapping of gene expression in the salivary glands of the dengue vector mosquito, *Aedes aegypti*. Parasit Vectors 4:1.
- Kalume DE, Okulate M, Zhong J, Reddy R, Suresh S, Deshpande N, Kumar N, Pandey A. (2005a) A proteomic analysis of salivary glands of female *Anopheles gambiae* mosquito. Proteomics 5:3765-3777.
- Kalume DE, Peri S, Reddy R, Zhong J, Okulate M, Kumar N, Pandey A (2005b) Genome annotation of *Anopheles gambiae* using mass spectrometry-derived data. BMC Genomics 6:128.
- Khaitlina SY. (2001) Functional specificity of actin isoforms. Int Rev Cytol 202:35-98.
- Kim SJ, Choochote W, Jitpakdi A, Junkum A, Park SJ, Min GS. (2003) Establishment of a self-mating mosquito colony of *Anopheles sinensis* from Korea. Korean J Entomol 33:267-271.
- Lanfrancotti A, Lombardo F, Santolamazza F, Veneri M, Castrignano T, Coluzzi M, Arca B. (2002) Novel cDNAs encoding salivary proteins from the malaria vector *Anopheles gambiae*. FEBS Lett 517:67-71.
- Limrat D, Rojruthai B, Apiwathnasorn C, Samung Y, Prommongkol S. (2001) *Anopheles barbirostris/campbelli* as a probable vector of malaria in Aranyaprathet, Sa Kaeo province. Southeast Asian J Trop Med Public Health 32:739-744.
- Linton YM, Dusfour I, Howard TM, Ruiz L F, Duc Manh N, Ho Dinh T, Sochanta T, Coosemans M, Harbach RE. (2005) *Anopheles (Cellia) epiproticus* (Diptera:Culicidae), a new malaria vector species in the Southeast Asian Sundaicus Complex. Bull Entomol Res 95:329-339.
- Lombardo F, Ronca R, Rizzo C, Mestres-Simon M, Lanfrancotti A, Curra C, Fiorentino G, Bourgouin C, Ribeiro JMC, Petrarca V, Ponzi M, Coluzzi M, Arca B. (2009) The *Anopheles gambiae* salivary gland protein gSG6: An anopheline-specific protein with a blood-feeding role. Insect Biochem Mol Biol 39:457-466.

- Lounibos LP, Conn JE. (2000) Malaria vector heterogeneity in South America. Am Entomol 46:238-249.
- Malandain H. (2005) IgE-reactive carbohydrate epitopes--classification, cross-reactivity, and clinical impact. Eur Ann Allergy Clin Immunol 37:122-128.
- Manning G, Whyte DB, Martinez R, Hunter T, Sudarsanam S. (2002) The protein kinase complement of the human genome. Science 298:1912-1934.
- Marinotti O, Brito M, Moreira CK. (1996) Apyrase and alpha-glucosidase in the salivary glands of *Aedes albopictus*. Comp Biochem Physiol 113B:675-679.
- Marinotti O, James AA. (1990) An α -glucosidase in the salivary glands of the vector mosquito, *Aedes aegypti*. Insect Biochem 20:619-623.
- Moreira-Ferro CK, Marinotti O, Bijovsky AT. (1999) Morphological and biochemical analyses of the salivary glands of the malaria vector, *Anopheles darlingi*. Tissue Cell 31:264-273.
- Moreira CK, Marrelli MT, Lima SL, Marinotti O. (2001) Analysis of salivary gland proteins of the mosquito *Anopheles darlingi* (Diptera: Culicidae). J Med Entomol 38:763-767.
- Nascimento EP, dos Santos Malafronte R, Marinotti O. (2000) Salivary gland proteins of the mosquito *Culex quinquefasciatus*. Arch Insect Biochem Physiol 43:9-15.
- Niedzwiecki A, Kongpachith AM, Fleming JE. (1991) Aging affects expression of 70-kDa heat shock proteins in *Drosophila*. J Biol Chem 266:9332-9338.
- Packham MA, Mustard JF. (2005) Platelet aggregation and adenosine diphosphate/adenosine triphosphate receptors: a historical perspective. Semin Thromb Hemost 31:129-138.
- Perkins DN, Pappin DJC, Creasy DM, Cottrell JS. (1999) Probability-based protein identification by searching sequence databases using mass spectrometry data. Electrophoresis 20:3551-3567.
- Phumee A, Preativatanyou K, Kraivichain K, Thavara U, Tawatsin A, Phusup Y, Siriyasatien P. (2011) Morphology and protein profiles of salivary glands of filarial vector mosquito *Mansonia uniformis*; possible relation to blood feeding process. Asian Biomed 5:353-360.
- Poehling HM. (1979) Distribution of specific proteins in the salivary gland lobes of culicidae and their relation to age and blood sucking. J Insect Physiol 25:3-8.

- Poinsignon A, Cornelie S, Mestres-Simon M, Lanfrancotti A, Rossignol M, Boulanger D, Cisse B, Sokhna C, Arca B, Simondon F, Remoue F. (2008) Novel peptide marker corresponding to salivary protein gSG6 potentially identifies exposure to *Anopheles* bites. PLoS One 3:e2472.
- Racioppi JV, Spielman A. (1987) Secretory proteins from the salivary glands of adult *Aedes aegypti* mosquitoes. Insect Biochem 17:503-511.
- Rayl EA, Moroson BA, Beardsley GP. (1996) The human purH gene product, 5- aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase. Cloning, sequencing, expression, purification, kinetic analysis, and domain mapping. J Biol Chem 271:2225-2233.
- Rattanarithikul R, Harrison BA, Harbach RE, Panthusiri P, Coleman RE. (2006) Illustrated keys to the mosquitoes of Thailand IV. *Anopheles*. Southeast Asian J Trop Med Public Health 37:1-128.
- Rattanarithikul R, Konishi E, Linthicum KJ. (1996) Detection of *Plasmodium vivax* and *Plasmodium falciparum* circumsporozoite antigen in anopheline mosquitoes collected in southern Thailand. Am J Trop Med Hyg 54: 114-121.
- Ribeiro JM, Arca B, Lombardo F, Calvo E, Pham VM, Chandra PK, Wikle SK. (2007) An annotated catalogue of salivary gland transcripts in the adult female mosquito, *Aedes aegypti*. BMC Genomic 8:6.
- Ribeiro JM, Mans BJ, Arca B. (2010) An insight into the sialome of blood-feeding Nematocera. Insect Biochem Mol Biol 40:767-784.
- Ribeiro JMC, Francischetti IM. (2003) Role of arthropod saliva in blood feeding: sialome and post-sialome perspectives. Annu Rev Entomol 48:73-88.
- Ribeiro JMC, Charlab R, Pham VM, Garfield M, Valenzuela JG. (2004) An insight into the salivary transcriptome and proteome of the adult female mosquito *Culex pipiens quinquefasciatus*. Insect Biochem Molbiol 34:543-563.
- Roesch A, Vogt T, Stoltz W, Dugas M, Landthaler M, Becker B. (2003) Discrimination between gene expression patterns in the invasive margin and the tumour core of malignant melanomas. Melanoma Res 13:503-509.

- Rosenberg R, Andre RG, Somchit L. (1990) Highly efficient dry season transmission of malaria in Thailand. *Trans R Soc Trop Med Hyg* 84: 22-28.
- Rossignol PA, Ribeiro JM, Spielman A. (1984) Increased intradermal probing time in sporozoite-infected mosquitoes. *Am J Trop Med Hyg* 33:17-20.
- Saeung A, Otsuka Y, Baimai V, Somboon P, Pitasawat B, Tuetun B, Junkum A, Takaoka H, Choochote W. (2007) Cytogenetic and molecular evidence for two species in the *Anopheles barbirostris* complex (Diptera: Culicidae) in Thailand. *Parasitol Res* 101:1337-1344.
- Saeung A, Baimai V, Otsuka Y, Rattanarithikul R, Somboon P, Junkum A, Tuetun B, Takaoka H, Choochote W. (2008) Molecular and cytogenetic evidence of three sibling species of the *Anopheles barbirostris* Form A (Diptera: Culicidae) in Thailand. *Parasitol Res* 102:499-507.
- Sallum MAM, Peyton EL, Harrison BA, Wilkerson RC. (2005a) Revision of the Leucosphyrus group of *Anopheles (Cellia)* (Diptera, Culicidae). *Rev Brasil Entomol* 49: 1-152.
- Sallum MAM, Peyton EL, Wilkerson RC. (2005b) Six new species of the *Anopheles leucosphyrus* group, reinterpretation of *An. elegans* and vector implications. *Med Vet Entomol* 19: 158-199.
- Sattabongkot J, Tsuboi T, Zollner GE, Sirichaisinthop J, Cui L. (2004) *Plasmodium vivax* transmission: chances for control? *Trends Parasitol* 20:192-198.
- Satoh K, Shimokawa H, Berk BC. (2010) Cyclophilin A: promising new target in cardiovascular therapy. *Circ J* 74:2249-2256.
- Scanlon JE, Peyton EL, Gould DJ. (1968) An annotated checklist of the *Anopheles* of Thailand. *Thai Natl Sci Pap Fauna Ser* 2: 1-35.
- Simons FE, Peng Z. (2001) Mosquito allergy: recombinant mosquito salivary antigens for new diagnostic tests. *Int Arch Allergy Immunol* 124:403-405.
- Siriyasatien P, Tangthongchaiwiriya K, Jariyapan N, Kaewsaitiam S, Poovorawan Y, Thavara U. (2005) Analysis of salivary gland proteins of the mosquito *Armigeres subalbatus*. *Southeast Asian J Trop Med Public Health* 36:64-67.

- Smartt CT, Kim AP, Grossman GL, James AA. (1995) The Apyrase gene of the vector mosquito, *Aedes aegypti*, is expressed specifically in the adult female salivary glands. Exp Parasitol 81:239-248.
- Soares RPP, Gontijo NF, Romanha AJ, Diotaiuti L, Pereira MH. (1998) Salivary heme proteins distinguish *Rhodnius prolixus* from *Rhodnius robustus* (Hemiptera: Reduviidae: Triatominae). Acta Trop 71:285-291.
- Soares RPP, Sant'Anna MRV, Gontijo NF, Romanha AJ, Diotaiuti L, Pereira MH. (2000) Identification of morphologically similar *Rhodnius* species (Hemiptera: Reduviidae: Triatominae) by electrophoresis of salivary heme proteins. Am J Trop Med Hyg 62:157-161.
- Somboon P, Suwonkerd W, Lines JD. (1994) Susceptibility of Thai zoophilic anophelines and suspected malaria vectors to local strains of human malaria parasites. Southeast Asian J Trop Med Public Health 25: 766-770.
- Souza-Neto JA, Machado FP, Lima JB, Valle D, Ribolla PE. (2007) Sugar digestion in mosquitoes: identification and characterization of three midgut alpha-glucosidases of the neo-tropical malaria vector *Anopheles aquasalis* (Diptera: Culicidae). Comp Biochem Physiol A Mol Integr Physiol 147:993-1000.
- Subbarao SK. (1998) Anopheline species complexes in South-East Asia. WHO Tech Pub Ser 18: 1-82.
- Sun D, McNicol A, James AA, Peng Z. (2006) Expression of functional recombinant mosquito salivary apyrase: a potential therapeutic platelet aggregation inhibitor. Platelets 17:178-184.
- Suwannamit S, Baimai V, Otsuka Y, Saeung A, Thongsahuan S, Tuetun B, Apiwathnasorn C, Jariyapan N, Somboon P, Takaoka H, Choochote W. (2009) Cytogenetic and molecular evidence for an additional new species within the taxon *Anopheles barbirostris* (Diptera: Culicidae) in Thailand. Parasitol Res 104:905-918.

- Thangamani S, Wikle SK. (2009) Differential expression of *Aedes aegypti* salivary transcriptome upon blood feeding. *Parasit Vectors* 2:34.
- Thongsahuan S, Baimai V, Junkum A, Saeung A, Min GS, Joshi D, Park MH, Somboon P, Suwonkerd W, Tippawangkosol P, Jariyapan N, Choochote W. (2011) Susceptibility of *Anopheles campestris*-like and *Anopheles barbirostris* species complexes to *Plasmodium falciparum* and *Plasmodium vivax* in Thailand. *Mem Inst Oswaldo Cruz* 106:105-112.
- Thongsahuan S, Baimai V, Otsuka Y, Saeung A, Tuetun B, Jariyapan N, Suwannamit S, Somboon P, Jitpakdi A, Takaoka H, Choochote W. (2009) Karyotypic variation and geographic distribution of *Anopheles campestris*-like (Diptera: Culicidae) in Thailand. *Mem Inst Oswaldo Cruz* 104:558-566.
- Valenzuela JG, Charlab R, Gonzalez EC, de Miranda-Santos IK, Marinotti O, Francischetti IM, Ribeiro JM. (2002) The D7 family of salivary proteins in blood sucking diptera. *Insect Mol Biol* 11:149-155.
- Valenzuela JG, Francischetti IM, Pham VM, Garfield MK, Ribeiro JMC. (2003) Exploring the salivary gland transcriptome and proteome of the *Anopheles stephensi* mosquito. *Insect Biochem Mol Biol* 33:717-732.
- Valenzuela JG, Francischetti IM, Ribeiro JM. (1999) Purification, cloning, and synthesis of a novel salivary anti-thrombin from the mosquito *Anopheles albimanus*. *Biochemistry* 38:11209-11215.
- Volf P, Tesarova P, Nohynkova E. (2000) Salivary proteins and glycoproteins in phlebotomine sandflies of various species, sex and age. *Med Vet Entomol* 14:251-256.
- Wal JM. (2001) Structure and function of milk allergens. *Allergy* 56:35-38.
- Wang MH, Marinotti O, James AA, Walker E, Githure J, Yan G. (2010) Genome-wide patterns of gene expression during aging in the African malaria vector *Anopheles gambiae*. *PLoS One* 5:e13359.
- Wasinpiyamongkol L, Patramool S, Luplertlop N, Surasombatpattana P, Doucoure S, Mouchet F, Séveno M, Remoue F, Demetre E, Brizard JP, Jouin P, Biron DG, Thomas F, Missé D. (2010) Blood-feeding and immunogenic *Aedes aegypti* saliva proteins. *Proteomics* 10:1906-1916.

World Health Organization. (2010) World Malaria report 2010. WHO Global Malaria Programme
238 p.

Xu W, Peng Z, Simons FER. (1998) Isolation of a cDNA encoding Aed a 3, a 30 kDa IgE-binding protein of mosquito *Aedes aegypti* saliva. J Allergy Clin Immunol 101: S203.

Yoshida S, Sudo T, Niimi M, Tao L, Sun B, Kambayashi J, Watanabe H, Luo E, Matsuoka H. (2008) Inhibition of collagen-induced platelet aggregation by anopheline antiplatelet protein, a saliva protein from a malaria vector mosquito. Blood 111:2007-2014.