

(Note: Cited references are listed at the end of the classification.)

Subgenus *Nyssorhynchus* Blanchard

Albimanus Section (Levi Castillo, 1949)

Albimanus Series (Faran, 1980)

albimanus Wiedemann

Oswaldoi Series (Faran, 1980)

Oswaldoi Group (Faran, 1980)

Oswaldoi Subgroup (Faran, 1980)

anomalophyllus Komp

aquasalis Curry

evansae (Brèthes)

galvaei Causey

inirii Senevet & Abonnenc

Konderi Complex (Ruiz-Lopez *et al.*, 2013)

konderi Galvão & Damasceno

tadei Saraiva & Scarpassa (formerly *sp. nr. konderi* of Ruiz-Lopez *et al.*, 2013)

Nuneztovari Complex (Mirabello & Conn, 2008; Foster *et al.*, 2013; Scarpassa *et al.*, 2016)

dunhami Causey

goeldii Rozeboom & Gabaldon

jamariensis (Sant'Ana & Sallum)

nuneztovari Gabaldon

nuneztovari B and C

Oswaldoi Complex (Ruiz-Lopez *et al.*, 2013)

oswaldoi (Peryassú)

oswaldoi A (Ruiz-Lopez *et al.*, 2013)

oswaldoi B (Ruiz *et al.*, 2005; Ruiz *et al.*, 2010)

rangeli Gabaldon, Cova-Garcia & Lopez

sanctielii Senevet & Abonnenc

trinkae Faran

Strodei Subgroup (Faran, 1980)

albertoi Unti

CP Form (Sallum *et al.*, 2010)

rondoni (Neiva & Pinto)

striatus Sant'Ana & Sallum

strodei Root

Arthuri Complex (Bourke *et al.*, 2013)

arthuri (species A)

arthuri B

arthuri D

rondoni (Sant'Ana & Sallum, 2022) (species C)

Benarrochi Complex (Ruiz *et al.*, 2005)

benarrochi Gabaldon, Cova-Garcia & Lopez

benarrochi B (Ruiz *et al.*, 2005)

- Triannulatus Group (Faran, 1980)
 - halophylus* Silva do Nascimento & Lourenço-de-Oliveira
 - triannulatus* (Neiva & Pinto)
 - triannulatus* (species C) (Silva-do-Nascimento & Lourenço-de-Oliveira, 2007)
 - Argyritarsis Section (Levi Castillo, 1949)
 - Albitarsis Series (Linthicum, 1988)
 - Albitarsis Group (Linthicum, 1988)
 - Albitarsis Complex (Wilkerson *et al.*, 1995)
 - albitarsis* Lynch Arribálzaga
 - albitarsis* (species F, G, H and I) (Brochero *et al.*, 2007; Ruiz-Lopez *et al.*, 2012)
 - deaneorum* Rosa-Freitas
 - janconnae* Wilkerson & Sallum
 - lineage nr *janconnae* (Gutiérrez *et al.*, 2010)
 - marajoara* Galvão & Damasceno (lineages 1 and 2) (McKeon *et al.*, 2010)
 - oryzalimnetes* Wilkerson & Motoki
 - Braziliensis Group (Linthicum, 1988)
 - braziliensis* (Chagas)
 - Argyritarsis Series (Linthicum, 1988)
 - Argyritarsis Group (Linthicum, 1988)
 - argyritarsis* Robineau-Desvoidy
 - sawyeri* Causey, Deane, Deane & Sampaio
 - Darlingi Group (Linthicum, 1988)
 - darlingi* Root
 - Lanei Group (Linthicum, 1988)
 - lanei* Galvão & Franco do Amaral
 - Pictipennis Group (Linthicum, 1988)
 - atacamensis* González & Sallum
 - pictipennis* (Philippi)
- Myzorhynchella Section (Peyton *et al.*, 1992)
 - antunesi* Galvão & Franco do Amaral
 - guarani* Shannon, 1928
 - lutzii* Cruz
 - nigritarsis* (Chagas)
 - parvus* (Chagas)
 - pristinus* Nagaki & Sallum

References

- Bourke, B.P., Oliveira, T.P., Suesdek, L., Bergo, E.S. & Sallum, M.A.M. 2013. A multi-locus approach to barcoding in the *Anopheles strodei* subgroup (Diptera: Culicidae). *Parasites & Vectors* 6: 111.
- Brochero, H.H.L., Li, C. & Wilkerson, R.C. 2007. A newly recognized species in the *Anopheles* (*Nyssorhynchus*) *albitarsis* complex (Diptera: Culicidae) from Puerto Carreño, Colombia. *American Journal of Tropical Medicine and Hygiene* 76: 1113–1117.
- Christophers, S.R. 1924a. Provisional list and reference catalogue of the Anophelini. *Indian Medical Research Memoirs* 3: 1–105.
- da Costa Lima, A. 1928. Sobre algumas anophelinas encontradas no Brasil. *Suplemento das Memórias do Instituto Oswaldo Cruz* 3: 91–113.

- Dyar, H.G. 1928. *The mosquitoes of the Americas*. Publication no. 387. Carnegie Institution of Washington, Washington, D.C.
- Edwards, F.W. 1932a. *Genera Insectorum. Diptera, Fam. Culicidae*. Fascicle 194. Desmet-Verteneuil, Brussels.
- Faran, M.E. 1980. Mosquito studies (Diptera, Culicidae) XXXIV. A revision of the Albimanus Section of the subgenus *Nyssorhynchus* of *Anopheles*. *Contributions of the American Entomological Institute* 15(7): 1–215.
- Faran, M.E. & Linthicum, K.J. 1981. A handbook of the Amazonian species of *Anopheles* (*Nyssorhynchus*) (Diptera: Culicidae). *Mosquito Systematics* 13: 1–81.
- Foster, P.G., Bergo, E.S., Bourke, B.P., Oliveira, T.M.P., Nagaki, S.S. Sant’Ana, D.C. & Sallum, M.A.M. 2013. Phylogenetic analysis and DNA-based species confirmation in *Anopheles* (*Nyssorhynchus*). *PLoS ONE* 8: e54063.
- Gabaldon, A. 1940. Estudios sobre anofelinos. Serie I. 1. Descripción de *Anopheles* (*Nyssorhynchus*) *nuñez-tovari* [sic] n. sp. y consideraciones sobre una sub-division del grupo *Nyssorhynchus* (Diptera, Culicidae). *Publicación del División de Malariología (Caracas)* 5: 3–7.
- Gabaldon, A. & Cova-Garcia, P. 1952. Zoogeografía de los anofelinos en Venezuela IV Su posición en la región Neotrópica y observaciones sobre las especies de esta región. *Revista Venezolana Sanidad y Asistencia Social* 17: 171–209, 12 pls.
- Galvão, A.L.A. 1941b Contribuição ao conhecimento das espécies de *Myzorhynchella* (Diptera, Culicidae) [sic]. *Arquivos de Zoologia (São Paulo)* 2: 505–576, 13 pls.
- Galvão, A.L.A. 1943. Chaves para a determinação das espécies do subgênero *Nyssorhynchus* do Brasil. *Arquivos de Higiene Saúde Pública* 8(19): 141–162.
- Gutiérrez, L.A., Orrego, L.M., Gómez, G.F., López, A., Luckhart, S., Conn, J.E. & Correa, M.M. 2010. A new mtDNA COI gene lineage closely related to *Anopheles janconnae* of the Albitarsis complex in the Caribbean region of Colombia. *Memórias do Instituto Oswaldo Cruz* 105: 1019–1025.
- Harbach, R.E. 1994a. Review of the internal classification of the genus *Anopheles* (Diptera: Culicidae): the foundation for comparative systematics and phylogenetic research. *Bulletin of Entomological Research* 84: 331–342.
- Komp, W.H.W. 1937b. The species of the subgenus *Kerteszia* of *Anopheles* (Diptera, Culicidae). *Annals of the Entomological Society of America* 30: 492–529.
- Komp, W.H.W. 1942. The anopheline mosquitoes of the Caribbean Region. *National Institute of Health Bulletin* 179: 1–195.
- Levi Castillo, R. 1949. *Atlas de los anofelinos Sudamericanos*. Sociedad Filantrópica de Guayas, Guayaquil, Ecuador.
- Linthicum, K.J. 1988. A revision of the Argyritarsis Section of the subgenus *Nyssorhynchus* of *Anopheles* (Diptera: Culicidae). *Mosquito Systematics* 20: 98–271.
- McKeon, S., Lehr, M.A., Wilkerson, R.C., Ruiz, J.F., Sallum, M.A., Lima, J.B.P., Pova, M.M. & Conn, J.E. 2010. Lineage divergence detected in the malaria vector *Anopheles marajoara* (Diptera: Culicidae) in Amazonian Brazil. *Malaria Journal* 9: 271.
- Mirabello, L. & Conn, J.E. 2008. Population analysis using the nuclear *white* gene detects Pliocene/Pleistocene lineage divergence within *Anopheles nuneztovari* in South America. *Medical and Veterinary Entomology* 22: 109–119.
- Peyton, E.L., Wilkerson, R.C. & Harbach, R.E. 1992. Comparative analysis of the subgenera *Kerteszia* and *Nyssorhynchus* of *Anopheles* (Diptera: Culicidae). *Mosquito Systematics* 24: 51–69.
- Ruiz, F., Linton, Y.-M., Ponsonby, D.J., Conn, J.E., Herrera, M., Quiñones, M.L., Vélez, I.D. & Wilkerson, R.C. 2010. Molecular comparison of topotypic specimens confirms

- Anopheles (Nyssorhynchus) dunhami* Causey (Diptera: Culicidae) in the Colombian Amazon. *Memórias do Instituto Oswaldo Cruz* 105(7): 899–903.
- Ruiz, F., Quiñones, M.L., Erazo, H.F., Calle, D.A., J Alzate, J.F. & Linton, Y.-M. 2005. Molecular differentiation of *Anopheles (Nyssorhynchus) benarrochi* and *An. (N.) oswaldoi* from Southern Colombia. *Memórias do Instituto Oswaldo Cruz* 100: 155–160.
- Ruiz-Lopez, F., Wilkerson, R.C., Conn, J.E., McKeon, S.N., Levin, D.M., Quiñones, M.L., Póvoa, M.M., Linton, Y.-M. 2012. DNA barcoding reveals both known and novel taxa in the Albitarsis Group (*Anopheles: Nyssorhynchus*) of Neotropical malaria vectors. *Parasites & Vectors* 5: 44.
- Ruiz-Lopez, F., Wilkerson, R.C., Ponsonby, D., Herrera, M., Sallum, M.A.M., Velez, I.D., Quiñones, M.L., Flores-Mendoza, C., Chadee, D.D., Alarcon, J., Alarcon-Ormasa, J. & Linton, Y.-M. 2013. Systematics of the Oswaldoi Complex (*Anopheles, Nyssorhynchus*) in South America. *Parasites & Vectors* 6: 324.
- Sallum, M.A.M., Foster, P.G., dos Santos, C.L.S., Flores, D.C., Motoki, M.T. & Bergo, E.S. 2010. Resurrection of two species from synonymy of *Anopheles (Nyssorhynchus) strodei* Root, and characterization of a distinct morphological form from the Strodei Complex (Diptera: Culicidae). *Journal of Medical Entomology* 47: 504–526.
- Sant’Ana, D.C. & Sallum, M.A.M. 2022. A new species of the Arthuri Complex of the Strodei Subgroup of *Nyssorhynchus* (Diptera: Culicidae). *Zootaxa* 5175(5): 559–569.
- Saraiva, J.F. & Scarpassa, V.M. 2021. *Anopheles (Nyssorhynchus) tadei*: A new species of the Oswaldoi-konderi Complex (Diptera, Anophelinae) and its morphological and molecular distinctions from *An. konderi* sensu stricto. *Acta Tropica* 221: 106004.
- Scarpassa, V.M., Cunha-Machado, A.S. & Saraiva, J.F. 2016. Evidence of new species for malaria vector *Anopheles nuneztovari* sensu lato in the Brazilian Amazon region. *Malaria Journal* 15: 205.
- Silva-do-Nascimento, T.R. & Lourenço-de-Oliveira, R. 2007. Diverse population dynamics of three *Anopheles* species belonging to the Triannulatus Complex (Diptera: Culicidae). *Memórias do Instituto Oswaldo Cruz* 102: 975–982.
- Theobald, F.V. 1907. *A monograph of the Culicidae or mosquitoes*. Volume 4. British Museum (Natural History), London.
- Wilkerson, R.C., Parsons, T.J., Klein, T.A., Gaffigan, T.V., Bergo, E. & Consolim, J. 1995. Diagnosis by random amplified polymorphic DNA polymerase chain reaction for four cryptic species related to *Anopheles (Nyssorhynchus) albitarsis* (Diptera: Culicidae) from Paraguay, Argentina, and Brazil. *Journal of Medical Entomology* 32: 697–704.
- Zavortink, T.J. 1973. Mosquito studies (Diptera, Culicidae) XXIX. A review of the subgenus *Kerteszia* of *Anopheles*. *Contributions of the American Entomological Institute* 9(3): 1–54.