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Description of *Anopheles fontenillei* n.sp. (Diptera: Culicidae) from La Lopé National Park, Gabon

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INTRODUCTION

A new mosquito species, *Anopheles fontenillei* n.sp., was described by Barrón *et al.* (2019), but the work was not registered in the Official Register of Zoological Nomenclature (ZooBank) as required by Art. 8.5.3 of the Code for a work issued and distributed electronically to be published for the purposes of zoological nomenclature (ICZN 1999). In order to render this name available, and to correct omissions made in the morphological description, we propose here an updated description of *Anopheles fontenillei* n.sp. For more details, especially on genomic analyses, see Barron *et al.* (2019).

Anopheles* (*Cellia*) *fontenillei Rahola, Paupy & Ayala**, new species**

lsid:zoobank.org:act:AC6215C5-A138-4A63-A97A-B047D9CBB267

Differential diagnosis : This species belongs to the Gambiae Complex and therefore cannot be morphologically differentiated from other members of this species complex. The species falls in Section IV, paragraph 3 of the key from Coetzee (2020): abdominal segments without laterally projecting tufts of scales; hind tarsomeres 4 and 5 not entirely pale; legs speckled, sometimes sparsely; maxillary palpus with 3 pale bands with apical dark spot about equal to or longer than apical pale band; 2nd main dark area on wing vein 1 with 1 pale interruption; 3rd main dark area of wing vein 1 with a pale interruption, sometimes fused with preceding pale spot; scaling on abdomen very scanty, confined to tergum VIII or rarely VII.

This species can be separated from other members of the Gambiae Complex by exclusively genomic analyses. See Barron *et al.* (2019) for genomic details and a complete morphological description.

Etymology: We dedicate this species to our dear colleague Didier Fontenille, who is contributing greatly to the study of mosquitoes and medical entomology in Africa.

Type material: Holotype: "*An. fontenillei* n.sp. N°3, female: Gabon, Lopé National Park, SEGC Bosquet buffle proche station" (S0.19773°; E11.60041°, 264 m) 12/06/2015, human landing capture, one slide with the mounting of the wing and one slide with the hind leg are associated and recorded as "*An. fontenillei* n.sp. N°3 wing" and "*An. fontenillei* n.sp. N°3 hind_leg" respectively. Deposited in the Institut de Recherche pour le Développement, Montpellier, France. Paratypes deposited in the same institution with the labels as follows: "*An. fontenillei* n.sp. N°1, female, LOP40, 02/02/2016, larval rearing, La Lopé National Park, Gabon" and a slide of the wing recorded as "*An. fontenillei* n.sp. N°1 wing"; "*An. fontenillei* n.sp. N°2, female, LOP40, 02/02/2016, larval rearing, La Lopé National Park, Gabon" and a slide of the wing recorded as "*An. fontenillei* n.sp. N°2 wing"; "*An. fon-*

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tenillei n.sp. N°473, female, LOP40 (S0.20336°; E11.60197°), 02/02/2016, larval rearing, La Lopé National Park, Gabon"; "*An. fontenillei* n.sp. N°781, female, LOP51 (S0.20356°; E11.60281°), 09/02/2016, larval rearing, La Lopé National Park, Gabon."

REFERENCES

Barrón, M. G., Paupy, C., Rahola, N., Akone-Ella, O., Ngangue, M. F., Wilson-Bahun, T. A., Pombi, M., Kengne, P., Costantini, C., Simard, F., González, J., & Ayala, D. 2019. A new species in the major malaria vector complex sheds light on reticulated species evolution. *Scientific Reports*, **9**(1), 14753.

Coetzee, M. 2020. Key to the females of Afrotropical *Anopheles* mosquitoes (Diptera: Culicidae). *Malaria Journal* **19**, 70.

International Commission on Zoological Nomenclature (**ICZN**) 1999. *International Code of Zoological Nomenclature. Fourth edition adopted by the International Union of Biological Sciences.* International Trust for Zoological Nomenclature, London. xxix + 306 pp.