1843 in *Drosophila melanogaster* reference sequence. Representative sequences have been deposited in Genbank: 18S: EU041960-EU042009; 28S: EU042010-EU042038, EU073708:EU073711; ITS1: EU042039-EU042097, EU073664: EU073707). Primers used to generate these fragments are listed in Table 1. In some cases we utilized a standard PCR diagnostic to test for *Wolbachia* [20]. *Wolbachia* are obligate intracellular endosymbiotic bacteria that cause reproductive incompatibility between infected and uninfected lineages, resulting in an increased proportion of infected maternal lineages that cannot reproduce.

Results

Taxonomic synopsis Check-List of Malagasy Anochetus Species

boltoni sp. nov.
goodmani sp. nov.
grandidieri Forel, 1891
= madecassus Santschi, 1928
madagascarensis Forel, 1887
= africanus var. friederichsi Forel, 1918
pattersoni sp. nov.

Key to workers and queens of Malagasy Anochetus

- 4. Petiolar node as seen from front or rear with apical margin deeply concave, lateral corner forming long spine (Fig. 5a).....boltoni
 Petiolar node as seen from front or rear with apical margin rounded, or slightly flattened, the lateral corner without spine (Fig. 5b).....goodmani

Key to males of Malagasy *Anochetus* (males of *goodmani* unknown and not included)

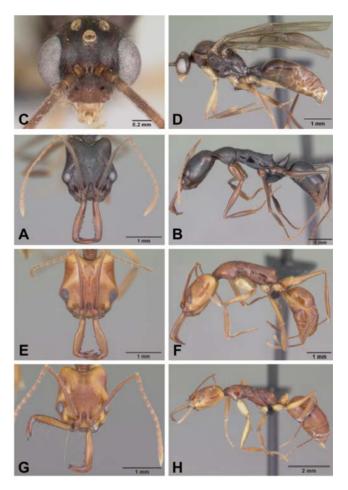


Figure 2. *Anochetus* **spp. full face and lateral view.** A–B, *boltoni* worker CASENT0104542. C–D, *boltoni* male CASENT0063847. E–F, *goodmani* worker CASENT0104543. G–H, *goodmani* ergatoid queen CASENT0454531. doi:10.1371/journal.pone.0001787.g002

Anochetus boltoni Fisher sp. nov.

urn:lsid:zoobank.org;act:B6C072CF-1CA6-40C7-8396-534E91EF7FBB

Figures: worker 2a,b, 5a; male 2c,d, 8a; map 6a

Type Material: *Holotype* worker, MADAGASCAR: Antsiranana, Parc National de Marojejy, Manantenina River, 28.0 km