

# New curiously scaled beetle species from New Britain named after 'Star Wars' Chewbacca

April 26 2016

---



The new flightless beetle species *Trigonopterus chewbacca*. Credit: Dr Alexander Riedel

Chewbacca, the fictional 'Star Wars' character, has given his name to a

new species of flightless beetle, discovered in New Britain, Papua New Guinea. Although *Trigonopterus chewbacca* was only one of the four black new weevil beetles found during the expedition, it stood out with its curious scales, which made the authors think of Han Solo's loyal companion.

Scientists Dr Matthew H. Van Dam, [SNSB-Zoological State Collection](#), Germany, Raymond Laufa, [The University of Papua New Guinea](#) and Dr Alexander Riedel, [Natural History Museum](#) Karlsruhe have their paper, where they describe the [new species](#), published in the open access journal [ZooKeys](#).

Failing to understand how was it possible that the hyperdiverse beetle genus *Trigonopterus* has never been spotted in New Britain, two of the researchers travelled to the island to double-check the foliage and leaf litter. Interestingly, the genus thrives best in Melanesia, the Oceania subregion, where Papua New Guinea is located, yet there had been only a single *Trigonopterus* species known from Bismarck Archipelago prior to the present study.

Eventually, having spent ten days sifting [leaf litter](#) and beating foliage, the authors discovered eighteen individuals in primary forests growing on limestone karst, and later assigned them to four separate species. However, these few findings are still striking, given the abundance of the beetles in similar localities in the New-Guinean mainland.



The new flightless beetle species *Trigonopterus obsidianus*. Credit: Dr Alexander Riedel

Unlike its sci-fi namesake, the Chewbacca beetle cannot rely on its measurements to scare other possibly malevolent [species](#) off. It only measures between 2.78 and 3.13 mm. Dissimilar again, is its body, which is black and rhomboid-shaped, while its legs and antenna appear rusty. What likens the beetle to "Chewie", however, is its distinctively dense scales, covering its head and legs.

In conclusion, the authors note that the beetle genus must have colonised New Britain at least four times in the past. "Given the size, mountainous

topography and tropical vegetation of New Britain, it is likely that *Trigonopterus* has undergone some local speciation on the island, but this possibility requires further investigation," they say.



The *Trigonopterus puncticollis*. Credit: Dr Alexander Riedel

**More information:** Matthew H. Van Dam et al, Four new species of *Trigonopterus* Fauvel from the island of New Britain (Coleoptera, Curculionidae), *ZooKeys* (2016). [DOI: 10.3897/zookeys.582.7709](https://doi.org/10.3897/zookeys.582.7709)

Provided by Pensoft Publishers

Citation: New curiously scaled beetle species from New Britain named after 'Star Wars' Chewbacca (2016, April 26) retrieved 26 April 2024 from <https://phys.org/news/2016-04-curiously-scaled-beetle-species-britain.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.