Q&A WITH AUTHORS



9 Questions with WRG authors

Title of the paper: Two new species of *Hepatozoon* (Apicomplexa: Hepatozoidae) parasitising species of *Philothamnus* (Ophidia: Colubridae) from South Africa

Journal: Folia Parasitologica

Authors: C. A. Cook, E. C. Netherlands, J. van As, N. J. Smit

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Field work group with large southern African rock python

Dr. Courtney Cook



1. What previous work was integral to the new study? The authors needed to complete a comprehensive review of the literature on haemogregarines (*Hepatozoon* being a genus within this group) of snakes from Africa. Many of the descriptions of these parasites from African snakes were completed in the beginning of the last century, which proved quite a challenge.



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Before the study, only two species of haemogregarine (specifically *Hepatozoon*) had been described from snakes of South Africa. This species tally was not as a result of a lack of biodiversity, but a lack of biodiversity research in this field. The genus *Hepatozoon* at present is phylogenetically controversial and would thus benefit from increased taxon sampling.

2. Why do you care about this particular subject?



At first yes, the molecular findings suggesting two species of *Hepatozoon* parasitising these snakes, however, the authors were only able to identify one species morphologically. This prompted the authors to increase sampling efforts to find the 'cryptic' second species. Morphologically, this second species compares to a species described, but unnamed, from a *Philothamnus* in 1920 from Uganda, which suggests a wider distribution range than expected.



Tubing a Mozambique spitting cobra during field work in order to take a blood sample

Drought can be a major limitation as the animals need to be actively collected, which means going out into the field and actively looking for and capturing them; animals become scarcer during times of drought. This form of capture also exposes researchers to many of the dangers associated with sampling in areas containing dangerous animals.



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3. Did any of the findings surprise you?



4. What are some of the limitations of this study?

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