Q&A WITH AUTHORS



9 Questions with WRG authors

Title of the paper: A century of taxonomic uncertainty: re-description of two species of tapeworms (Diphyllobothriidea) from Arctic seals

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Co-authors Oleg Ditrich (second from the left) and Roman Kucha (far right)

Dr. Bjoern Schaeffner



1. What previous work was integral to the new study? I guess this study has been quite unique. As the title implies, there has been a huge confusion about these species and previous authors couldn't identify them unambiguously. I assume the original descriptions of Krabbe (1865) and Germanos (1895) formed an integral part to the present study. However, these also started the before mentioned inability to differentiate the species leading to many erroneous records. It's great that after more than a century we could finally solve this puzzle!



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you deal with different host organisms and collect in 2. Why do you various localities worldwide. My main focus is undeniably care about this particular on parasite infections of sharks, rays and skates subject? (elasmobranchs). However, it has been very interesting to deal with parasites of marine mammals (seals) from the Arctic circle. I mean: who can say that? A project always turns out bigger than originally anticipated. This was also the case in this study. At first, we aimed to re-describe the species by looking at the type and newly collected material. However, we soon realised 3. Did any of the that previous authors faced great difficulties to findings surprise differentiate the species. In order to assess the previous you? records, we had to go through the entire literature (mostly in Russian!) and borrow more specimens from museum collections for morphological evaluation. So instead of 3, we spent more than 9 months until this study could be published. I think this was a surprise for all authors. There have to be limitations? (author laughs) The only limitation I can think of is the fact that this study is highly 4. What are some specific and as such, only very few people may appreciate of the limitations and see the purpose of it. But I guess this applies to all of this study? parasitic organisms that do not affect humans in their life cycle. A pity, isn't it? Not at all. (small pause) However, previous authors 5. Do you expect dealing with these species might not be too happy these findings to realising they misidentified their specimens in the past. be controversial But I don't think they will hold a grudge against us. in your field? 6. What are the Certainty! We now know where these species occur, which hosts they infect and how we can identify them! broader implications of Figuring this out more than 100 years after these species these findings? have been discovered is one step in the right direction. Most people consider parasites malign disease agents which need to be eradicated. Although true for certain 7. What do people representatives, most parasites share a long co-evolution usually get wrong with their hosts, without causing any negative side effects. about this Learning more about the host-parasite relationships, subject? ecology and interconnected evolutionary pathways helps

Apart from the fact that tapeworms (or cestodes) are incredible organisms? (author smiles) As a parasitologist



us understand more about the hosts' biology and

evolutionary history.

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The most memorable moments for my co-authors were probably the field surveys in Svalbard – an archipelago in the Arctic Ocean. Although they went there during summer, the average temperatures rarely rise above 6° Celsius. My most memorable moment was the observation of specimens that were collected back in 1890. Thinking about that, these specimens were far older than my great-grandmother!



8. Looking back on the study, what were some of the most memorable moments for you and your colleagues?

9. What are you

working on next?



I am eager to focus (again) on cestodes of elasmobranchs. Especially here in South Africa, only very little known and numerous species await discovery!



Thank you for your time, Bjoern!



