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## No room for speciesism in welfare considerations

Commentary on [Mikhalevich & Powell](#) on *Invertebrate Minds*

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**Abstract:** Speciesism should play no role in determining welfare outcomes. Cognition may vary within species as well as between species, but broad classifications such as invertebrates are functionally meaningless in this context. Cognition should relate to welfare only to the extent that it relates to the capacity to suffer or to experience pleasure.

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It is perfectly reasonable for Mikhalevich & Powell (2020) (M&P) to call for an end to the speciesism that permeates the field of animal welfare. There is no defensible reason to apply different welfare criteria to some living beings simply on the basis of their taxonomic classifications. This is particularly the case when the classification is extremely broad and functionally meaningless. The category of invertebrates covers more than 95% of all known species, including organisms as diverse as cephalopods and *Drosophila*. In the same way that the color of one's skin should not have any bearing on their ethical treatment, the presence or absence of a spine should not dictate the ethical treatment of nonhumans.

M&P focus on the internal, cognitive lives of invertebrates, and seem to be arguing that evidence of complex cognition earns animals a higher priority for welfare considerations. They review an impressive body of research that indicates greater cognitive complexity in invertebrates than is generally attributed to them. Although this insight is valuable in challenging our perspectives on invertebrates, a focus on cognitive complexity is dangerous in its anthropocentrism. Humans value intellect because they believe it is what sets them apart and places them atop a hierarchy of evolutionary superiority (Chapman & Huffman, 2018). But there is nothing about cognitive superiority that deserves greater consideration than, for example, physical strength, beauty, ecological purpose, and the list goes on.

Contrary to Levy's (2020) suggestion that M&P should treat cognitive capacity as a direct factor for moral decisions, I would argue that cognition should be considered relevant to ethical treatment only insofar as it relates to particular types of suffering or pleasure that an organism can experience. This explicit role of cognition in predicting species' welfare should be highlighted rather than using the upper limits of cognition to justify improved treatment. I agree with Levy that the issue of consciousness is something of a red herring. This line of reasoning was prominent in the commentaries on Chapman & Huffman (2018), which lobbied instead for a focus on the capacity to suffer (Shackelford, 2018; Vonk, 2019). Being aware of one's existence and capacity

for death does allow for unique categories of suffering that are not applicable to most nonhumans. For example, when humans are aware that they will die at a young age, they lament the loss of their future and future missed opportunities (McMahan, 2002). Thus far, there is no evidence of this level of reflection on the part of any nonhuman. There is no evidence that nonhumans represent death as a permanent absence of both physical and conscious existence (Brosnan & Vonk, 2019), thus eliminating a significant category of distress from their capacity for suffering in the threat of death. However, there are other aspects of cognition that we are probably unaware of that allow other species to suffer in ways that humans do not.

Although cognitive complexity is highly correlated with phylogenetic relatedness, this relationship is not isomorphic. There can be significant variability between species within taxa in their need for social interaction, space, varied diet and numerous other factors that influence welfare. Giant pandas can be provided with a single type of food (bamboo) while black bears and brown bears are generalists and require much greater variety and opportunity to search for and extract food. The link between cognition and welfare should be examined at an even finer level; the individual rather than the species level. Focusing on species membership alone neglects factors such as cognitive impairment and rearing history that affect individual responses to the same conditions. A feral dog that has never known human companionship may find human attention aversive and stressful whereas an abandoned pet is likely to be comforted by human attention (Willen et al., 2017).

I agree with M&P that whether events are experienced as aversive or pleasurable is more important than assessing pain alone. The opportunity to thrive is beginning to be considered an important welfare consideration (Brando & Buchanan-Smith, 2018). Distress, fear, boredom and many other states in addition to somatic pain are aversive too — and may be more likely to be experienced by more complex organisms. The direct link between cognition and psychological discomfort and pleasure should be explored more deeply before resting on evidence of cognitive complexity alone as justification for moral treatment.

Of secondary importance is the continued debate in comparative cognition about the extent to which animals are merely stimulus-response organisms blindly engaging in behavior without a sense of purpose or awareness versus the idea that animals are flexible and capable of abstract thought. Comparative psychologists are coming to recognize that this is a false dichotomy (Vonk & Edge, in press). Furthermore, this kind of discourse is like a sand-trap; the harder you dig, the deeper you become buried in it.

M&P set this problem aside, stating: *“Because this problem applies to all of comparative cognition, we will not delve into it here.”* One problem with this dismissal is that they cite arguments from philosophers alone, neglecting the prominent arguments posed by comparative psychologists who are actually engaged on the front lines of this work. As M&P point out, one can almost always provide simpler and simpler explanations for purportedly complex behavior, and this endless cycle detracts from the main key points in a discussion of welfare. However, understanding the precise cognitive mechanism underlying seemingly intelligent behavior can help determine an animal’s needs for cognitive stimulation and choice. Comparative psychologists aim to do exactly this by using a better understanding of cognition to inform welfare (Clark, 2017).

The bottom line is that decisions about appropriate welfare for various species cannot be based on arbitrary features like the presence or absence of a spinal column or a particular brain structure. Humans with a limited understanding of different species’ experiences and capacities

must resist the inclination to label some species as more or less deserving than others. Welfare considerations should be linked to the capacity to experience various forms of adversity and pleasurable experiences. The way that cognition is linked to these capacities is bound to be far more complex than any taxonomic distinction would indicate, but M&P bring us closer to understanding how the world is perceived through the senses of invertebrates.

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