The Arnold Berliner Award 2017

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The recipient of this year’s Arnold Berliner Award (Thatje 2013) is Mr. Deni Purwandana (Komodo Survival Program, Bali, Indonesia, Fig. 1), in recognition of his research article on the Komodo dragon (Varanus komodoensis) published in The Science of Nature in 2016 (Purwandana et al. 2016). The study is a contribution to the Komodo Survival Program, a long-term protection programme of this enigmatic lizard.

In his study, Purwandana and collaborators focused on ontogenetic changes in feeding habits, including prey size, and the use of landscape as part of the ecological niche in the Komodo dragon. The study was conducted in the Komodo National Park in Eastern Indonesia, which consists of a series of islands including the two most substantial islands, Komodo and Rinca, between 2002 and 2015. Komodo dragons live up to 60 years and can reach a body weight of 90 kg. The study demonstrated that the Komodo dragon changes its prey size preferences and the use of its ecological niche with age and size. A sudden and dramatic shift in prey size from small (≤10 kg) to large prey (≥50 kg) is observed in lizards heavier than 20 kg. When weighing 20 kg and more, the lizards shift their feeding ethology from a highly active foraging strategy exploring small prey to a less active sit-and-wait feeding strategy, with the aim to hunt large ungulates.

These ontogenetic changes in hunting behaviours are accompanied by marked changes in their ecological niche, meaning changes in the landscapes used. By changing its ecological niche preference, the Komodo dragon can exploit prey across multiple trophic levels, avoids direct competition between lizard size classes, and optimises the use of limited resources in an island habitat. Given the observed changes throughout ontogeny in this species, it is most likely that the larger Komodo dragons do possess a more efficient pattern of energy use, as their hunting strategy is highly specialised.

The Arnold Berliner Award was established in recognition of the founding editor of Naturwissenschaften (now The Science of Nature, Thatje 2013) who led the journal for the lengthy period of 22 years. The award is sponsored by...
Springer and is given annually for the best research article published in *The Science of Nature* during the previous calendar year (Thatje 2012). Criteria are excellence in science, originality, as well as aspects of interdisciplinarity, overall mirroring Arnold Berliner’s motivation for initiating the journal. A jury, consisting of the board of editors and the editor-in-chief, selects the awardee. The award is marked with the *Arnold Berliner Award* Medal (Fig. 2) and is accompanied by a biennial subscription to the electronic edition of *The Science of Nature*, a 500-euro voucher for Springer books, as well as a cash prize of 250 euros.

**References**


Thatje S (2012) Introducing the *Arnold Berliner Award*. Naturwissenschaften 99(9):675–676