

Hide, ambush, kill, eat: The giant water bug *Lethocerus patruelis* kills a fish

July 31 2013



This image shows an adult giant water bug, *Lethocerus patruelis*. Credit: Mario Langourov

The giant water bug *Lethocerus patruelis* is the largest European true bug and the largest European water insect. The adult bugs reach an impressive 8 cm in length, and the largest representatives of the same family are even bigger - up to almost 12 cm. A new article published in

the open access journal *Zookeys* provides detailed information on karyotype and the chromosome behavior, the male reproductive system of the species, as well as interesting insights into the life habits and the distribution of the species on the Balkans.

Lethocerus patruelis is a member of the family Belostomatidae also known as electric light bugs or toe biters. These bugs are fierce predators which stalk, capture and feed on aquatic crustaceans, fish and amphibians. When they strike, they inject strong digestive [saliva](#), sucking out the liquefied remains to feed. This powerful hunting tool gave the family its common name, referring to the extremely painful bite from the Belostomatidae members. Their bite is considered one of the most painful that can be ever inflicted by any insect but it is of no medical significance.

During their study of the giant water bug N. Simov and M. Langourov from the study team had the unique chance to witness and record on video the vicious predatory practices of the species. In the recorded material, a larva uses the stems of a water plant to stalk and ambush its unsuspecting pray. The giant water bug [larva](#) can be seen storming from its cover and catching and injecting saliva into a small fish.



This image shows the larva of a giant water bug feeding on a small fish. Credit: Nikolay Simov

During the last ten years, many new findings of *L. patruelis* were made by the team in Southern Bulgaria, providing evidence that the giant water bug is expanding its territory northwards. Such a wide and abundant distribution of the species in these regions would be a further sign of the recent changes of European bug fauna caused by [climate change](#) and an

important clue for the [effects of global warming](#).

More information: Grozeva S, Kuznetsova VG, Simov N, Langourov M, Dalakchieva S (2013) Sex chromosome pre-reduction in male meiosis of *Lethocerus patruelis* (Stål, 1854) (Heteroptera, Belostomatidae) with some notes on the distribution of the species. In: Popov A, Grozeva S, Simov N, Tasheva E (Eds) Advances in Hemipterology. *ZooKeys* 319: 119, [doi: 10.3897/zookeys.319.4384](https://doi.org/10.3897/zookeys.319.4384)

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Citation: Hide, ambush, kill, eat: The giant water bug *Lethocerus patruelis* kills a fish (2013, July 31) retrieved 21 June 2024 from <https://phys.org/news/2013-07-ambush-giant-bug-lethocerus-patruelis.html>

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