Three-dimensional rendering of the shells of three species of unicellular planktonic foraminifera: *Orbulina universa*, *Globigerinoides conglobatus* and *Sphaeroidinella dehiscens*. When the cell dies, the empty calcium carbonate shell sinks to the ocean floor, making foraminifera important components of the global carbon cycle. The sinking velocity of shells contributes to a key parameter for climate models, but is difficult to measure owing to their small size (<1.5 mm). Walker et al. (jeb230961) provide a methodology using 3D-printed scale models to determine the sinking speeds of such shells, and which can be applied to a range of other particles. Photo credit: imaging, Jörg Hammel, Fabian Wilde; segmentation, Tatjana Hoehfurtner, Matthew Walker; rendering, Matthew Walker.

The Ander's organ: a mechanism for anti-predator ultrasound in a relict orthopteran

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