

Understanding the evolutionary history of magnetite is a step towards further revealing the underlying process, the researchers said. Banks, Bellinger and their colleagues would then like to test their new understanding and associated markers to further uncover the mystery of why and how certain life forms have well-tuned tools for lengthy and accurate migration strategies.

The article was co-authored by Jiandong Wei of Shanghai University in China; Uwe Hartmann from Saar University in Germany; Hervé Cadiou of the Institute for Cellular and Integrative Neurology in France; and Michael Winklhofer of the University of Oldenburg in Germany.

Magnetic impulses change the orientation of the salmon, suggesting that it is moved by magnetite in its tissues.

Additional Information:

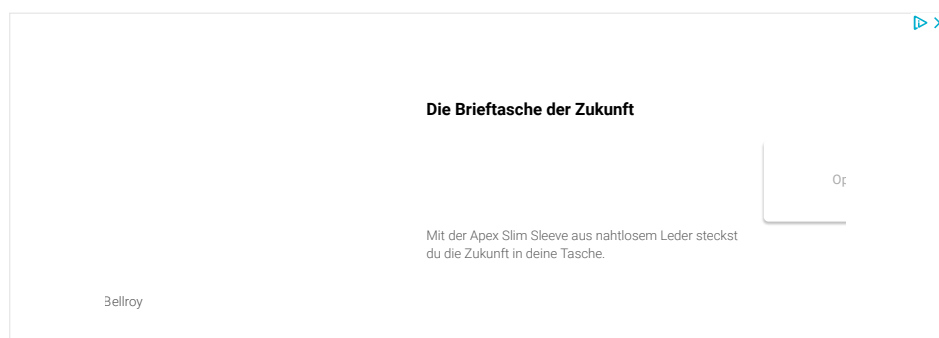
M. Rene Bellinger et al., Conservation of Magnetite Biomineralization Genes in All Areas of Life and Implications for Magnetic Sensing, *Proceedings of the National Academy of Sciences* (2022). DOI: 10.1073 / pnas.2108655119

Courtesy of Oregon State University

Quote: Research on magnetite in salmon noses sheds light on understanding the sensory mechanisms behind magnetic perception (2022, January 10), retrieved January 10, 2022 from <https://phys.org/news/2022-01-magnetite-salmon-noses-illuminates-sensory.html>

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Die Brieftasche der Zukunft

Mit der Apex Slim Sleeve aus nahtlosem Leder steckst du die Zukunft in deine Tasche.

Bellroy

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