Invitation to a Guest Lecture
at the joint colloquium of the Institute of Biology and Environmental Sciences and the
Department of Neuroscience

Module bio890: Current topics in biology

Jingjing Xu
IBU (Neurosensorik/Animal Navigation), University of Oldenburg

A magnetic compass based on Cryptochrome4 protein in European robins

Migratory birds use the Earth’s magnetic field to navigate their long-distance migration. Half a century ago, a radical pair model was theoretically proposed to explain the avian magnetic compass. We are now able to experimentally validate the quantum chemical magnetoreception mechanism in Cryptochrome 4 protein from European robins, a true night-navigator. I will tell you the story of this exciting discovery that brings us closer to understanding the magnetic sensitivity of the putative magnetic sensor molecule cryptochrome4 protein.

21.12.2021, 4 pm (s.t.)
virtual room: https://meeting.uol.de/b/gab-t5m-nmo-kvi

Host: Prof. Dr. Gabriele Gerlach (Animal Biodiversity and Evolutionary Biology), IBU
Members of all institutes are cordially invited to join the lecture.