



Seminar(i)

The size response to temperature in aquatic organisms: mechanisms and adaptiveness

Aleksandra Walczyńska

Jagiellonian University , Kraków

The common observation of size decrease with increasing temperature, known as the Temperature-Size Rule (TSR), was called the biggest life history puzzle because of its counterintuitive pattern. Neither the mechanisms causing this phenomenon, nor its adaptive significance, are well understood. In a series of short experiments on aquatic organisms I tested the existing hypotheses on the proximate and ultimate factors behind TSR. The results show that TSR is an adaptation to temperature-dependent oxygen availability and is realized through cell size decrease at higher temperature. Additionally, I determined the optimal thermal range for TSR.

WHERE?

Seminar room ICBiBE - SS6

(lower-ground floor, Institutes building)

WHEN?

Thursday 26/10/2017 - 12:00 h