

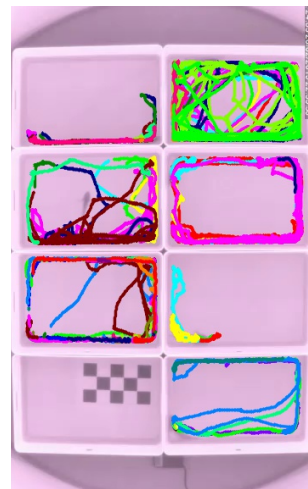


Variation in metabolic rate and its consequences

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The metabolic rate of an animal reflects its need to acquire resources such as food and oxygen from the environment. In fish, both resting and maximum metabolic rates vary approximately 30-fold across species with different lifestyles, after accounting for variation in temperature and body mass. A portion of this variation remains within species, with individuals varying up to 3-fold in their mass-independent metabolic rates. Since selection works on individuals and metabolic rate can have fitness consequences, this among-individual variation can be important for how populations are affected by changes in the environment. I will talk about the causes and consequences of variation in metabolic rate within fish species and among individuals, and how this variation relates to both physiological and behavioural responses to temperature, oxygen, and feeding.



Friday November 15th at 13.15

Seminar room at Zoophysiology (1131-127)