



**University of  
Zurich<sup>UZH</sup>**

**ETH**

**Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich**

## **The Ecology, Evolution, Environment & Behavior UZH / ETH Joint Seminar Series**

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### **Toward a unified science of ecological change: advances and challenges in biodiversity and metabolic scaling**

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**Speaker:** **Prof. Mary O'Connor**  
Department of Zoology, University of British Columbia, Vancouver, Canada  
<https://www.zoology.ubc.ca/person/oconnor>

**Date:** Thursday, 2018-03-08  
**Time:** 15:00 to 16:00  
**Place:** Y15-G-40/UZH Irchel  
Winterthurerstr. 190;8057 Zürich

**Access:** only intern

**Host:** Florian Altermatt, UZH

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**Abstract:** Biodiversity change and ecological responses to climate change are topics of major concern, and we rely on ecological theory to guide how we relate observed or suspected changes to potential consequences for ecosystem functions and services. I will highlight recent advances in detecting biodiversity change across scales in coastal marine systems and potential implications for ecosystem functions and seafood derived nutritional benefits to humans. I will also present recent work that strengthens our understanding of how general temperature dependence of metabolism constrains population-level processes and fitness potential, providing a key link between temperature and ecological and evolutionary outcomes. I am deeply interested in unifying our ecological science across scales, and hope to start a discussion about how we can continue to take steps in that direction.

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last update: 2021-05-21