



# SANDRA BRUCET

1976, SPAIN

Aquatic ecologist known for her research on the use of organisms' size structure, in combination with taxonomical approaches, to assess biodiversity and ecosystem processes in response to global changes.

Sandra was one of the coordinators of the development of bioindicators of the European Water Framework Directive.

Among other responsibilities, she is Lead Author of IPBES Regional Assessment of biodiversity and ecosystem services for Europe and Central Asia.

## HERSTORY

On the day of choosing her future career, she left home telling her parents that she would choose Arts, and came back having enrolled in Sciences... Only because she is passionate for biology!

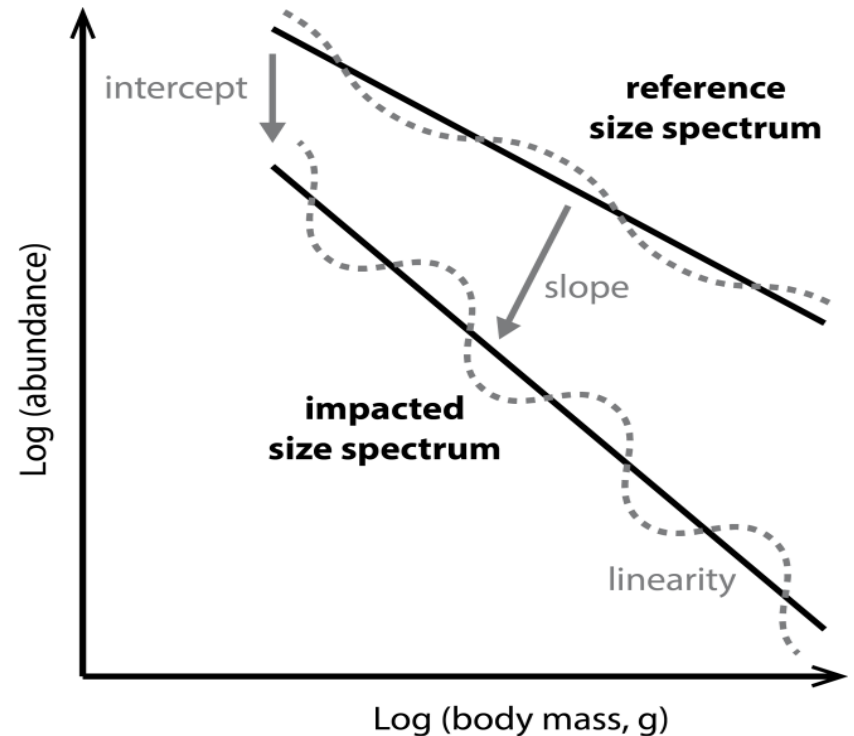
# IMPORTANCE OF BODY SIZE IN FRESHWATER FOOD WEBS

The **size spectrum** is a common graphical and statistical method to describe the relationship between body size and abundance.

Under **disturbance**, the parameters of the size spectrum (i.e., slope, intercept, linearity) change.

Impacts in the size spectrum can be caused by:

- **Natural effects:** extinctions and arrival of new species
- **Human induced perturbations:** global warming, fishing, changes in land use.



# RELEVANT CONTRIBUTIONS

**Brucet, S.**, Arranz, I., Mehner, M., et al. (2018). Size diversity and species diversity relationships in fish assemblages of Western Palearctic lakes. *Ecography*, 41, 1064 - 1076.

**Brucet S.**, Pédrón, S., Mehner, T., et al. (2013). Fish diversity in European lakes: geographical factors dominate over anthropogenic pressures. *Freshwater Biology*, 58, 1779-1793.

**Brucet, S.**, Boix, D., Quintana, X. D., et al. (2010). Factors influencing zooplankton size structure at contrasting temperatures in coastal shallow lakes: implications for effects of climate change. *Limnology and Oceanography*, 55, 1697-1711.

Birk, S., Bonne, W., Borja, A., **Brucet, S.** et al. (2012). Three hundred ways to assess Europe's surface waters: an almost complete overview of biological methods to implement the Water Framework Directive. *Ecological indicators*, 18, 31-41.

LOOKING  
FOR MORE?

**You can find more information about her story and research at:**

<https://www.icrea.cat/Web/ScientificStaff/sandra-brucet-210578>

<https://mon.uvic.cat/aquatic-ecology/>