



# VĚRA STRAŠKRABOVÁ

1934, Czech Republic

Microbiologist recognized for her works counting bacteria in reservoirs and mountain lakes. She contributed to the understanding of the microbial-loop in aquatic ecosystems, highlighting the role of bacteria in the food web.

Author of several reports about self-cleaning of reservoirs and worked as forensic in field of water management advocating for the use of new technologies.

Graduated from the Faculty of Science of Charles University (Prague) and founding member of the Czech School of Microbial Ecology of Qater and Chair of the Long-term Monitored Ecosystems.

## HERSTORY

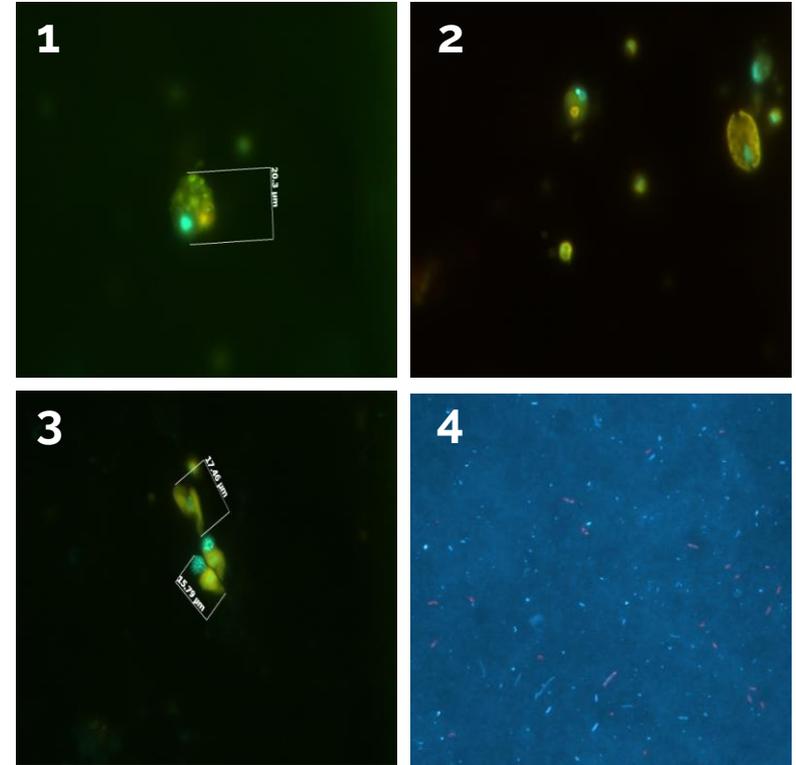
Věra was the first woman being the Director of the Institute of Hydrobiology of the Czech Academy of Science (1990).

# MICROBIAL FOOD WEB & BACTERIOPLANKTON GRAZING

Using fluorescent oligonucleotide probes, Věra counted and measured the productivity of bacteria communities from mountain lakes.

Věra studied the microbial food webs and the prey predation interactions between different trophic levels, highlighting the grazing effect of ciliates and flagellates (heterotrophs and mixotrophs) over bacterioplankton communities.

Věra supported the idea that selective grazing could be the responsible for the shifts in the size of bacteria and the produce changes of the bacterial community composition.



Grazing pressure over bacterioplankton communities in mountain lakes. Flagellates and ciliates feeding on bacteria (1) Dinoflagellate, (2) Urotrichia, Cryptomonas and Chromulina (3) a colony of Dinobryon. (4) DAPI counts of bacteria.

# RELEVANT CONTRIBUTIONS

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Šimek, K., Armengol, J., Comerma, M., García, J.-C., Chrzanowski, T. H., Macek, M., Nedoma, J., **Straškrabová, V.** (1998): Characteristics of protistan control of bacterial production in three reservoirs of different trophic. International Review of Hydrobiology, 83, 485-494

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Šimek, K., **Straškrabová, V.** (1992). Bacterioplankton production and protozoan bacterivory in a mesotrophic reservoir. Journal of Plankton Research, 14, 773-787.