



Professor at the University of Valencia, (Spain). She is known for her studies on the limnology of lentic ecosystems (lakes, ponds and lagoons), focusing on plankton communities (especially Rotifera).

She studied many different ecosystems around the world from lake Banyoles and Albufera de Valencia in Spain to marginal lakes associated with River Niger, the Great Salt lake and Lake Baikal.

# MARIA ROSA MIRACLE

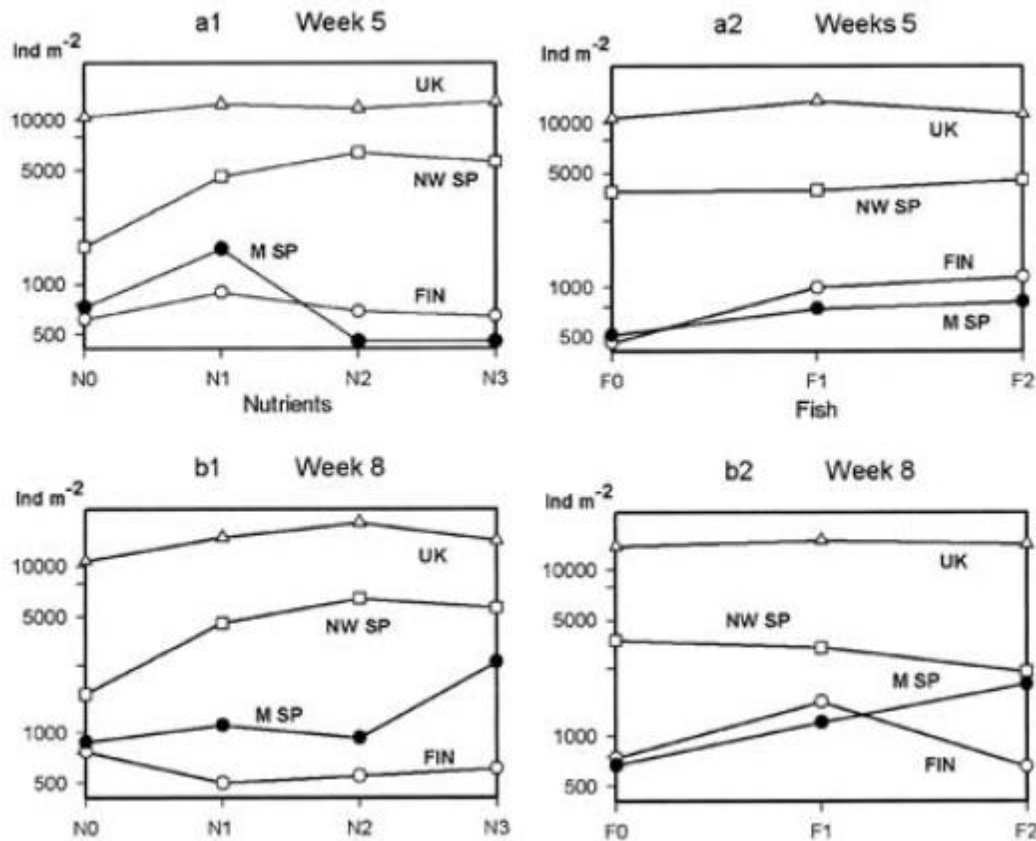
1945-2017, SPAIN

## HERSTORY

Maria Rosa did the PhD at the University of Barcelona under the supervision of Ramón Margalef. She was the president of the Academy of Environmental Biology, India, from 1987 to 1990, and of the Iberian Limnological Association from 1994 to 2002.

# TROPHIC INTERACTIONS IN LENTIC ECOSYSTEMS

Maria Rosa studied top-down and bottom-up interactions in lake ecosystems.



**Example:** nutrient addition and the presence of fish could significantly affect the densities of invertebrates in the aquatic vegetation and the sediment.

Also, zooplankton has a reduced ability to control phytoplankton growth in hypertrophic systems.

Rosa Maria Miracle et al. (2006). *Limnetica*.

# RELEVANT CONTRIBUTIONS

**Miracle, M. R.**, Vicente, E., Sarma, S. S. S., Nandini, S. (2014). Planktonic rotifer feeding in hypertrophic conditions. *International Review of Hydrobiology*, 99, 141-150.

**Miracle, M. R.**, et al. (2006). Response of macroinvertebrates to experimental nutrient and fish additions in European localities at different latitudes. *Limnetica*, 25, 585-612.

**Miracle, M. R.**, Sahuquillo, M. (2002). Changes of life-history traits and size in *Daphnia magna* during a clear-water phase in a hypertrophic lagoon (Albufera of Valencia, Spain). *Internationale Vereinigung für theoretische und angewandte Limnologie: Verhandlungen*, 28, 1203-1208.

Armengol-Díaz, J., Esparcia, A., Vicente, E., **Miracle, M. R.** (1993). Vertical distribution of planktonic rotifers in a karstic meromictic lake. *Hydrobiologia*, 255, 381-388.

LOOKING  
FOR MORE?

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

<http://www.limnetica.com/es/limnetica/38>

[https://es.wikipedia.org/wiki/Maria\\_Rosa\\_Miracle](https://es.wikipedia.org/wiki/Maria_Rosa_Miracle)