

SEM Council Members

Name:

Alicia María Muro-Pastor

Council role:

President of the Molecular Microbiology Group

Employer or Institute:

Instituto de Bioquímica Vegetal y Fotosíntesis
(Consejo Superior de Investigaciones Científicas
and Universidad de Sevilla)



Title:

Tenured Scientist OPI

Main areas of study/work:

Regulation mediated by non-coding RNAs. Bacterial cellular differentiation. Metabolic adaptations in cyanobacteria.

Three main or most recent publications:

Brenes-Álvarez M, Vioque A, Muro-Pastor AM. 2022. The heterocyst-specific small RNA NsiR1 regulates the commitment to differentiation in *Nostoc*. *Microbiology Spectrum* 10:e02274-21. <https://journals.asm.org/doi/10.1128/spectrum.02274-21>

Brenes-Álvarez M, Olmedo-Verd E, Vioque A, Muro-Pastor AM. 2021. A nitrogen stress-inducible small RNA regulates CO₂ fixation in *Nostoc*. *Plant Physiology* 187:787-798. <https://doi.org/10.1093/plphys/kiab309>.

Brenes-Álvarez M, Vioque A, Muro-Pastor AM. 2020. The integrity of the cell wall and its remodeling during heterocyst differentiation are regulated by phylogenetically conserved small RNA Yfr1 in *Nostoc* sp. strain PCC 7120. *mBio* 11: e02599-19. <https://doi.org/10.1128/mBio.02599-19>.

Contact details:

Telephone: +34-954489521

E-mail: alicia@ibvf.csic.es

Keywords:

Heterocyst. Cyanobacteria. Non-coding RNAs. Antisense RNAs.