

XIX CONGRESO DE LA SOCIEDAD ARGENTINA DE MICROBIOLOGÍA GENERAL

22 al 25 de octubre del 2024

Centro cultural y Pabellón Argentina de la Universidad Nacional de Córdoba, Córdoba, ARGENTINA.

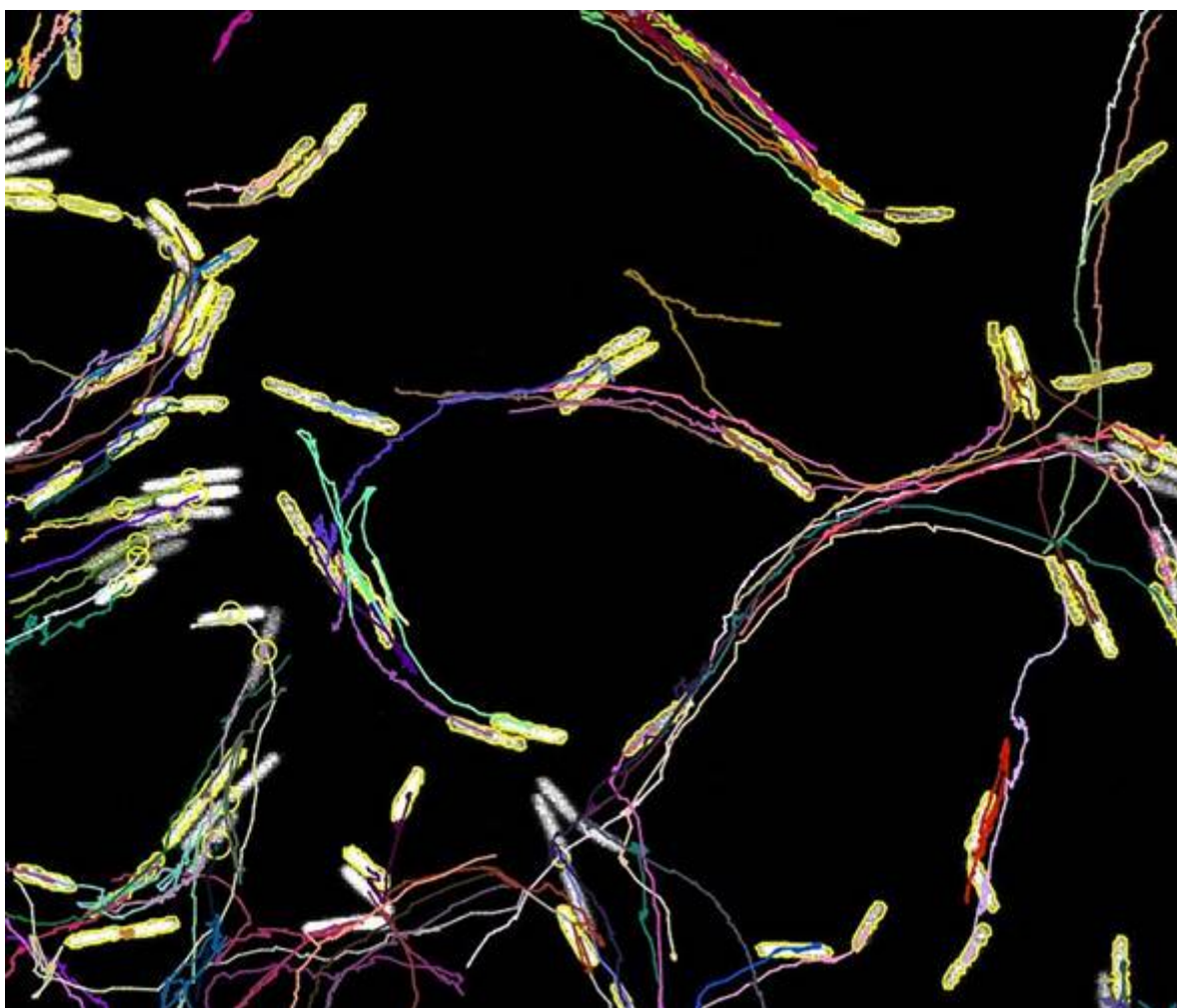


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**ONE OR TWO MEMBRANES? INVESTIGATING THE TRANSITION
BETWEEN MONODERM AND DIDERM CELL ENVELOPES ACROSS
BACTERIA**

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The cell envelope is one of the oldest and most fundamental biological structures, and a major target of antimicrobials. Bacteria can have radically different envelopes, containing either one (Gram-positives or monoderm) or two (Gram-negatives or diderm) membranes. How and why such dramatic transition occurred has remained a major open question in evolutionary biology. In this talk, I will present recent data where we addressed this issue by merging large-scale computational analyses with experimental evolution using a new model at the interface between diderms and monoderms. Our results challenge established paradigms and propose a hypothesis on how this transition might have occurred.

Palabras clave: palabras_clave