



Extracellular vesicles of *Pseudomonas aeruginosa*: challenges and opportunities.

Simposio (solo por invitación)

Antimicrobianos y resistencia

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Pseudomonas aeruginosa is a versatile pathogen capable of causing diseases ranging from mild infections to life-threatening conditions. Its virulence is due to a wide range of factors, including extracellular vesicles (EVs), which are recognized as important elements with physiological and pathogenic functions.

However, the full scope of these vesicles in *P. aeruginosa* is still unclear. One of the main barriers to the characterization of EVs is the difficulty of extraction: procedures are often lengthy, yield is low, and specialized equipment is required.

In this context, we will discuss our progress in developing an effective and rapid vesicle extraction method. In parallel, we will discuss our findings and those of other groups regarding the protein content of vesicles and their possible role in resistance and pathogenicity. Finally, we will briefly explore the real potential of EVs as biotechnological tools.

This presentation is expected to provide a framework for future collaborations in all aspects of research on extracellular vesicles from *P. aeruginosa*, contributing to the advancement of this field.

Palabras Clave

(1) Extracellular vesicles, (2) EVs, (3) *Pseudomonas aeruginosa*, (4) Patogenicity.

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