

## **Identifying Innovation Opportunities in Antimicrobial Resistance Research through Technology Readiness Level**

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### **Resumo**

Antimicrobial resistance (AMR) poses a significant global health challenge, requiring innovative solutions through collaborative ecosystems involving academia, industry, and government. This study leverages the Technology Readiness Level (TRL) to evaluate research projects at the Antimicrobial Resistance Institute of São Paulo (ARIES), a research, innovation and knowledge diffusion project, funded by São Paulo Research Foundation (FAPESP). The TRL scale offers a standardized methodology to assess and prioritize technological development. Semi-structured interviews with nine principal investigators from ARIES revealed that most projects are situated within the knowledge ecosystem, corresponding to TRL levels 1 to 3. Despite the focus on basic research, some researchers expressed interest in advancing toward the entrepreneurial ecosystem through academic spin-offs or in making collaborations with industry. This initial assessment provides a foundation for exploring mechanisms that enable or constrain the progression of technological readiness in AMR research. Moreover, this work aims to contribute to practical applications by fostering the transition of ARIES to an innovation ecosystem, facilitating the development and delivery of solutions to address the AMR crisis.