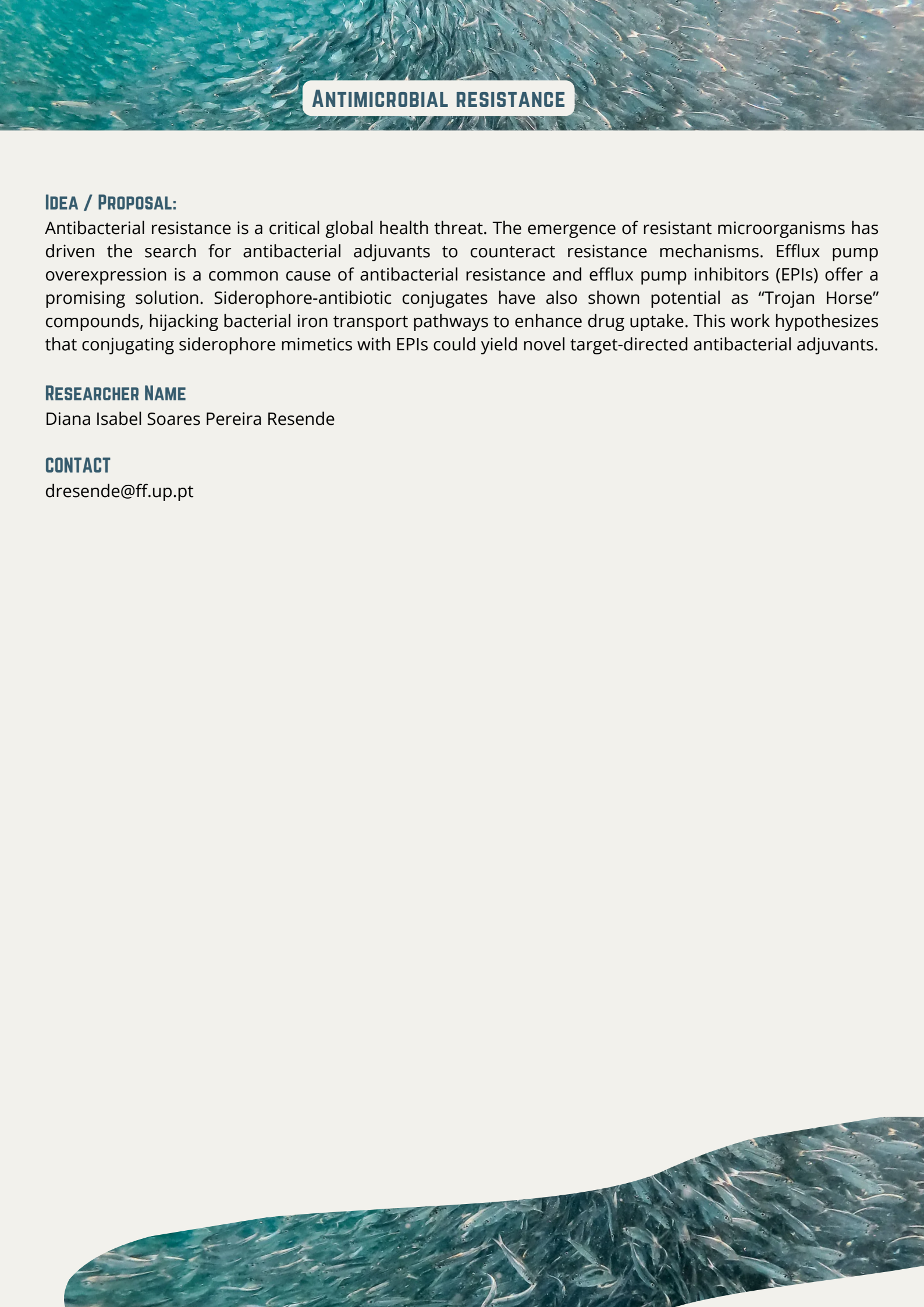




ANTIMICROBIAL RESISTANCE

IDEA / PROPOSAL:

Antibacterial resistance is a critical global health threat. The emergence of resistant microorganisms has driven the search for antibacterial adjuvants to counteract resistance mechanisms. Efflux pump overexpression is a common cause of antibacterial resistance and efflux pump inhibitors (EPIs) offer a promising solution. Siderophore-antibiotic conjugates have also shown potential as “Trojan Horse” compounds, hijacking bacterial iron transport pathways to enhance drug uptake. This work hypothesizes that conjugating siderophore mimetics with EPIs could yield novel target-directed antibacterial adjuvants.

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