

Abietane Cationic Amphiphiles to Tackle Resistant Bacteria

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Abstract:

This project focused on the development of novel abietane cationic amphiphiles (ACAs) by chemical modification of dehydroabietic acid (DHA), leading to cationic amide derivatives by condensation of the DHA carboxyl function with the amine group of biogenic polyamines (spermine) and basic proteinogenic amino acids (arginine). The presented project performed a screening of antimicrobial activities of the compounds DHA and ACA hemi synthesis intermediary (ACA-Int) against a collection of Gram-positive, Gram-negative bacteria and yeasts; toxicological studies to assess if the

compounds had antimicrobial and not cytotoxic properties; and microencapsulation and stability studies to evaluate the chemical behavior and stability of the tested compounds.

Partners:

