

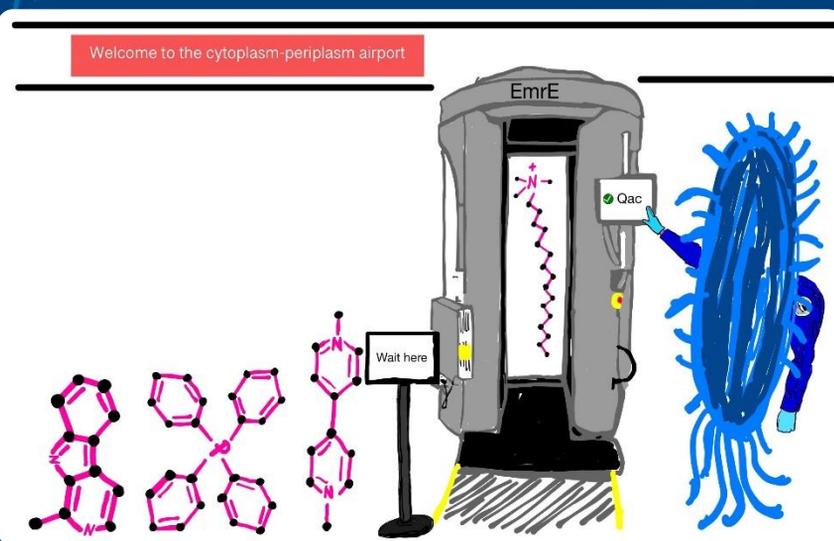


CHEMISTRY DEPARTMENT SEMINAR

Introducing Polyspecific Transport into the Most Selective Member of the SMR Family

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The small multidrug resistance (SMR) family contains the smallest membrane transport proteins found in both bacteria and archaea. The family is functionally dominated by two major subtypes: the quaternary ammonium compound subtype (Qac) which transports a chemically diverse range of biocides, and the guanidinium exporter subtype (Gdx) which selectively transports the essential bacterial metabolite, guanidinium. Using high throughput mutagenesis, directed evolution, electrophysiology, and cell resistance assays, identified key molecular determinants of the specificity differences between the Gdx and Qac subtypes.

September 09th @12 pm – Lopez 106

Meeting ID: 951 3765 0274

<https://zoom.us/j/95137650274>