

Next Generation Therapeutic Targets: Multidrug Resistance and Regenerative Medicine

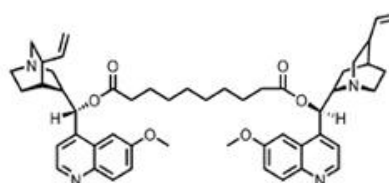
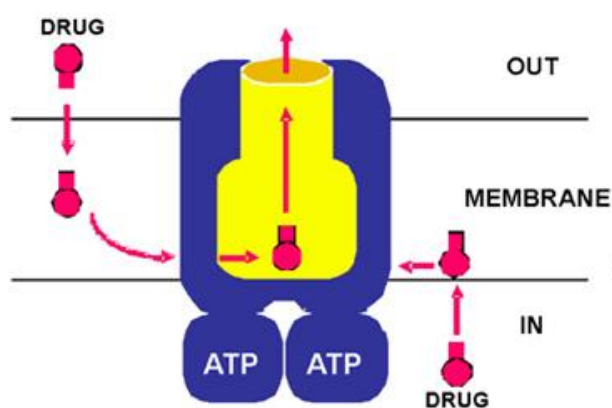
Jean Chmielewski, Alice Watson Kramer Distinguished Professor of Chemistry,

Department of Chemistry, Purdue University

Abstract:

Two topics will be discussed in this lecture - the design of dimeric prodrug inhibitors of the multidrug resistance transporter P-glycoprotein and the development of novel biomaterials based on collagen peptides and their uses in biomedicine.

P-glycoprotein promotes drug efflux from cancer cells



Potent inhibitor of multi-drug efflux transporter P-glycoprotein - improves the efficacy of anti-cancer drug Taxol 3000-fold in drug resistant cancer cells

