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## Microbial Efflux Pumps Current Research

**microbial efflux pumps - caister academic press** - microbial efflux pumps have important physiological functions, play major roles in bacterial pathogenesis and are widely distributed across diverse bacterial species. a single species may harbour several different types of efflux systems: of these, active efflux has proven to be one of the most successful **bacterial multidrug efflux pumps: much more than ...** - in the current review, we present information on the different functions that multidrug ... to reach its microbial target at an adequate concentration for inhibiting the target's activity. within ... conferring cross-resistance to different antibiotics are multidrug resistance (mdr) efflux pumps. as stated above, these transporters are present ... **engineered bacterial efflux pumps for production of biofuels** - engineered bacterial efflux pumps for production of biofuels ... accumulation of biofuel product in the microbial host, as most biofuel products currently considered for industrial ... unlike current methods for engineering tolerance to small molecules, such as alternating cell wall composition or inducing heat-shock response [1], export of the ... **inhibition of bacterial efflux pumps: a new strategy to ...** - gram-negative drug efflux pumps and their inhibitors 4. gram-positive drug efflux pumps and their inhibitors 5. expert opinion anti-infectives inhibition of bacterial efflux pumps: a new strategy to combat ... efflux pump inhibitors with current drugs that are pump substrates can **microbial multidrug efflux: introduction** - together provide a comprehensive overview of the current status of research in the field of microbial multidrug efflux. since the first studies on microbial multidrug efflux, one focus of research and passionate debate has been on how multidrug pumps function, i.e., what is the molecular mechanism of recognizing and transporting multiple **structural mechanisms of bacterial multidrug efflux pumps ...** - structural mechanisms of bacterial multidrug efflux pumps, their regulation, and implications for future research in silico ... do, sylvia vu, "structural mechanisms of bacterial multidrug efflux pumps, their regulation, and implications for future research in ... drugs can be designed that can allow current first-line antibiotic treatments to be **the importance of efflux pumps in bacterial antibiotic ...** - the importance of efflux pumps in bacterial antibiotic resistance ... efflux pumps in antibiotic resistance in bacteria is significant. ... the efficacy of current and future antibiotics. **engineering microbial biofuel tolerance and export using ...** - engineering microbial biofuel tolerance and export using efflux pumps ... acids, can be used in only limited quantities in current gasoline, diesel and jet engines. recently, there have been ... **engineering microbial biofuel tolerance and export using efflux pumps ... anti-evolutionary targets in bacterial efflux** - how to cite this article: pavan g. anti-evolutionary targets in bacterial efflux pumps: future therapeutics to combat antibacterial resistance. curr trends biomedical eng & biosci. 2017; 1(5): 555575. doi: 10.19080/ctbeb.2017.01.555575 002 current rends in ioedical ngineerin iosciences which results in decreased antibacterial susceptibility. **the development of efflux pump inhibitors to treat gram ...** - department of microbial biotechnology, centro nacional de biotecnología. csic, madrid, spain abstract ... efflux pumps, which are present on all organisms, can sensitize both susceptible and resistant bacteria ... current situation concerning the search of epis and discuss **microbial efflux systems and inhibitors: approaches to ...** - microbial efflux systems and inhibitors: approaches to drug discovery and the ... hultstrepas:dashrrent.terms-of-use#laa. send orders of reprints at reprints@benthamsience 34 the open microbiology journal, 2013, ... [35]. at least seven bmeb efflux pumps . **current research in microbiology - openaccessebooks** - resistant microbial [11]. for example, in the year 1952, penicillin-resistant bacteria was found ... efflux pump efflux pump is formed in some bacteria when antibiotic enters into the cell, which throws outside the bacterial by theses efflux pumps. this kind of resistance is seen in tetracycline resistant bacteria. **antimicrobial resistance (amr) nanomachines—mechanisms for ...** - to treat serious microbial infections with current therapies. indeed, resistance exhibited by bacterial pathogens to current ... efflux of (fluoro)quinolones from the cell by efflux pumps. in gram-positive bacteria, the majority of efflux membrane proteins which include quinolones in their **research open access directed evolution of an e. coli ...** - the utilization of such optimized native efflux pumps will increase productivity of biofuels synthesis and alleviate toxicity and difficulties in production scale-up in current microbial platforms. keywords: protein engineering, synthetic biology, efflux, biofuel, directed evolution, transporter

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