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## Bacterial Integrative Mobile Genetic Elements

**consequences of a mobile genetic element integrated at ...** - consequences of a mobile genetic element integrated at secondary locations by kayla l. menard submitted to the microbiology graduate program on may 23, 2013 in partial fulfillment of the requirements for the degree of doctor of philosophy abstract integrative and conjugative elements (ices) are widespread mobile genetic elements that are **detection of mobile genetic elements (mges) in bacterial ...** - detection of mobile genetic elements (mges) in bacterial genomes ... applications future improvements . introduction mobile genetic elements mobile genetic element any sequence of dna that is physically moved within an organism genome or between different organisms. 10% - 20% of the bacterial ... integrative elements in bacterial evolution. **integrative and conjugative elements: mosaic mobile ...** - abstract | integrative and conjugative elements (ices) are a diverse group of mobile genetic elements found in both gram-positive and gram-negative bacteria. these elements primarily **veterinary pathology horizontally transferred genetic the ...** - integrative and conjugative elements ices are mges that share features of transposons, bacterio-phages, and plasmids.18,138 the ices include conjugative transposons. these elements are able to integrate into bacterial table 2. mobile genetic elements in selected bacterial pathogens. organism mobile element virulence mechanism **bacterial plasmids - sridhar rao** - bacterial plasmids plasmids are defined as double stranded, extrachromosomal genetic elements that replicate ... exclusion of plasmids that are incompatible with the resident plasmid. integrative plasmids: these are plasmids that can occasionally integrate into chromosome ... and they are known to have mobile genetic elements. **the ice- $\beta$ ox integrative conjugative element of legionella ...** - environment. accessory traits carried on mobile genetic elements diversify the *i. pneumophila* and may contribute to persistence in stressful environments. one class of mobile elements are integrative conjugative elements (ices) which encode cargo genes as well as type iv secretion system (t4ss) transfer apparatuses to direct their **assembly and transfer of tripartite integrative and ...** - integrative and conjugative elements (ices) are ubiquitous mobile genetic elements present as "genomic islands" within bacterial chromosomes. symbiosis islands are ice s that convert nonsymbiotic mes-orhizobia into symbionts of legumes. here we report the discovery of symbiosis ices that exist as three separate chromosomal regions **the genomics of cholera - novaonline.nvcc** - integrative mobile genetic elements (imges) to pathogenicity, antibiotic resistance, and bacterial evolution. we provide specific examples of how pathogenicity is derived and how different integrative mobile genetic elements have shaped the genomes and contributed to phenotypes for the survival and adaptation of vibrios in **characterization of a bifunctional cell wall hydrolase in ...** - integrative and conjugative elements (ices) are mobile genetic elements that are normally found stably integrated into bacterial chromosomes, but under certain situations can excise and transfer to a recipient cell through conjugation. ices contain a set of genes that encode the molecular machinery needed for conjugative transfer. **integrative mobile elements exploiting xer recombination** - numerous other integrative mobile elements exploiting them have been discovered. here, we review our understanding of the molecular mechanisms of integration of the different integrative mobile elements exploiting xer (imexs) so far described. role of xer recombination in the maintenance and evolution of bacterial genomes

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