

**Part II: Erythromycin Biosynthesis, Genetic Approaches**

Chaitan Khosla  
Stanford University

**Reconstitution of Erythromycin Biosynthesis in Heterologous Hosts**

- expression of large multi-domain proteins
- post-translational modification
- precursor biosynthesis
- transport
- putting it all together

**Heterologous Production of 6-Deoxyerythronolide B in *S. coelicolor***

*S. Coelicolor* CH999

C. Kao (Science, 1994)

**Heterologous Production of 6-Deoxyerythronolide B in *E. coli***

B. Pfeiffer (Science, 2001)

**Modularity of a Modular Megasyntase**

**Modularity of a Modular Megasyntase**

Kao, et al. J. Am. Chem. Soc. (1995)



