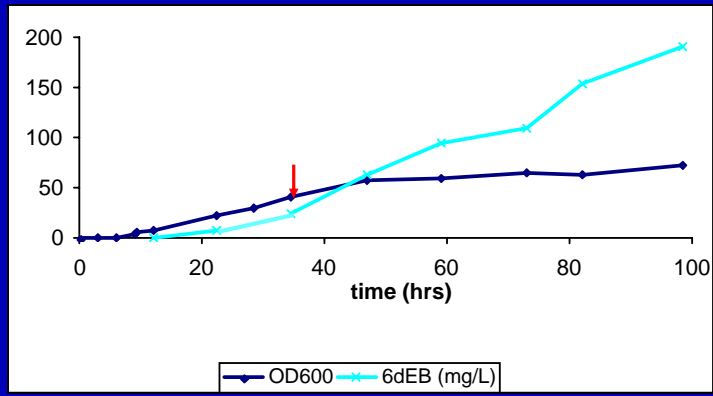


Reconstitution of Erythromycin Biosynthesis in Heterologous Hosts

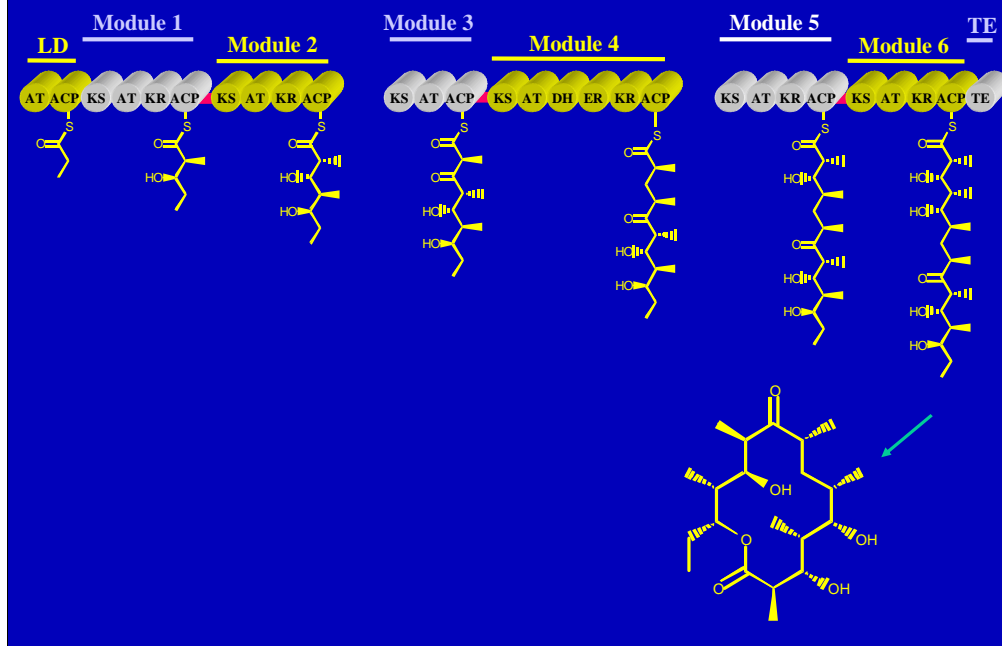
- expression of large multi-domain proteins
- post-translational modification
- precursor biosynthesis
- transport
- putting it all together

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

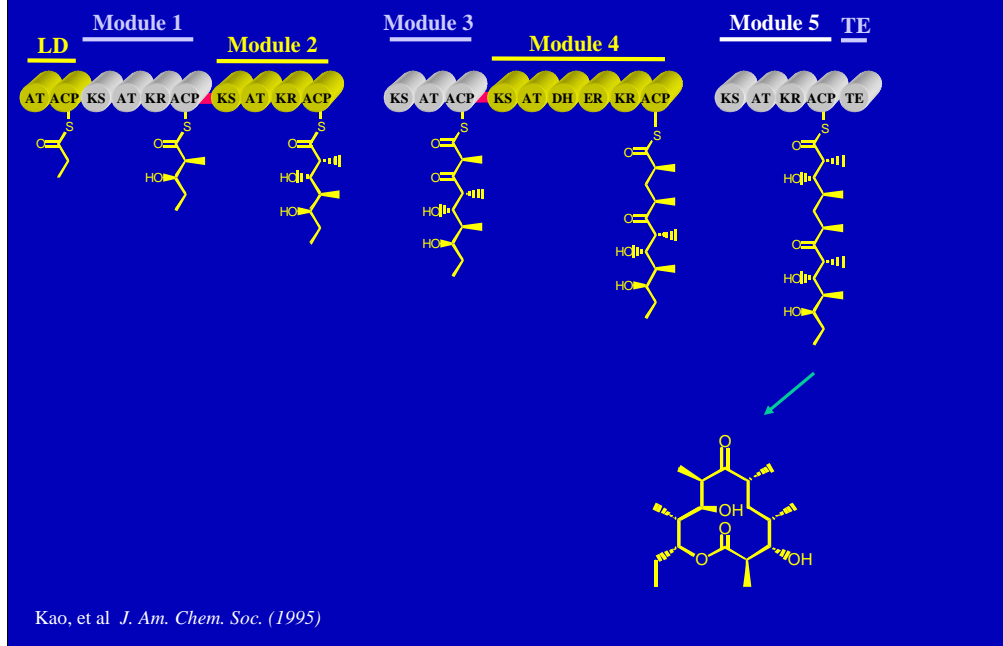


B.Pfeifer (Science, 2001)

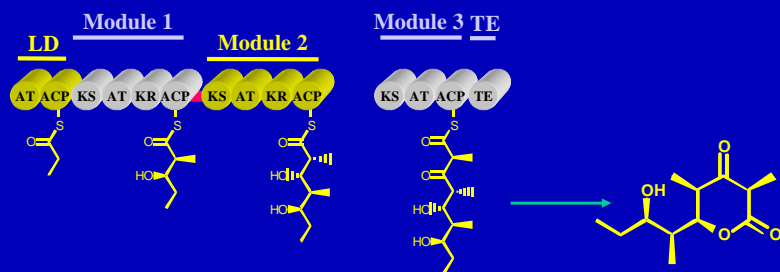
Modularity of a Modular Megasyntase



Modularity of a Modular Megasyntase

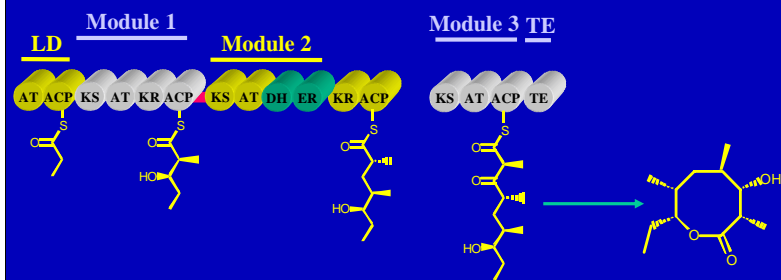


Making New Polyketides



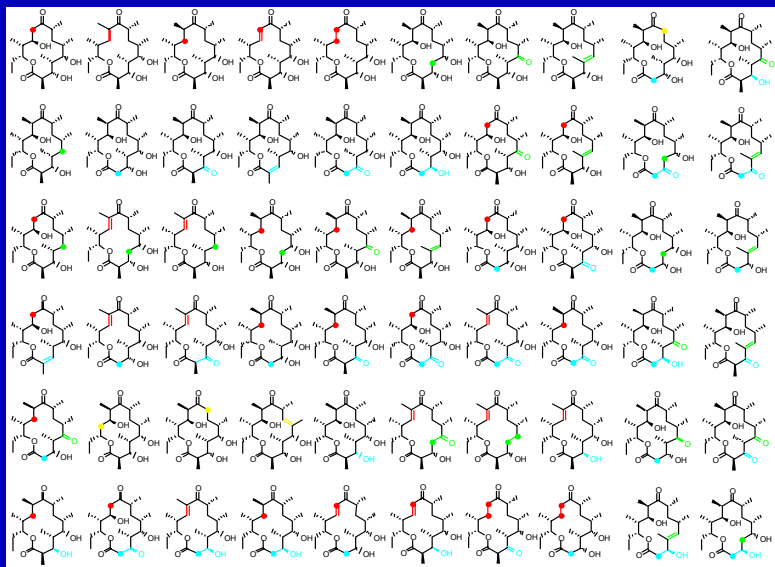
Kao, et al *J. Am. Chem. Soc.* (1996)

Making New Polyketides

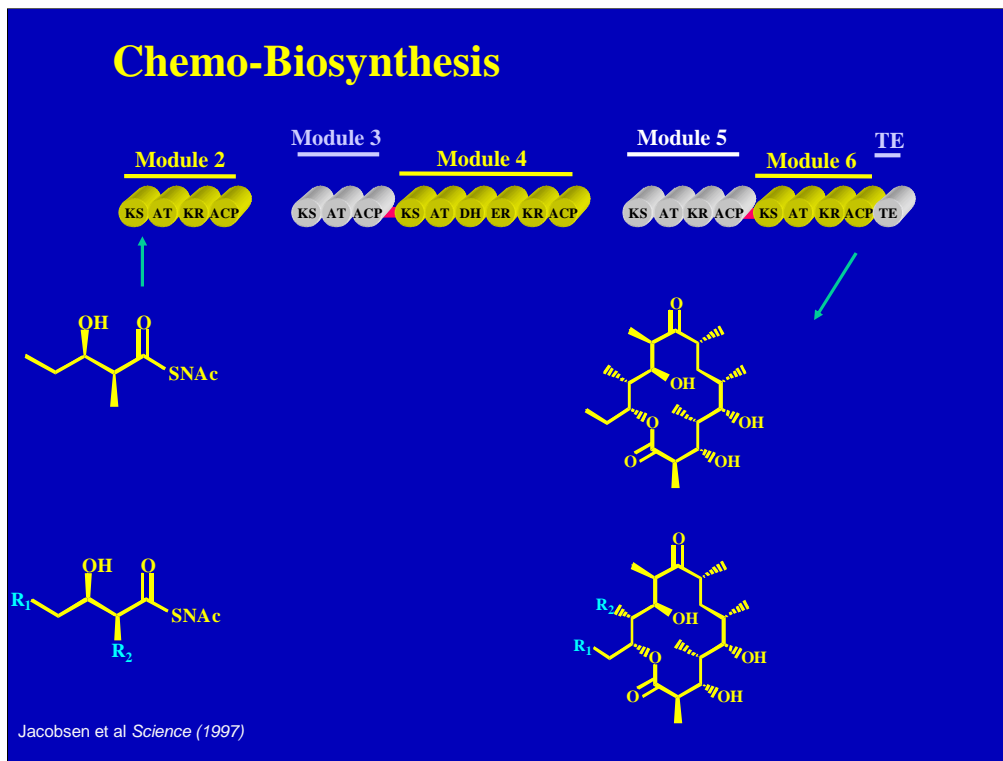


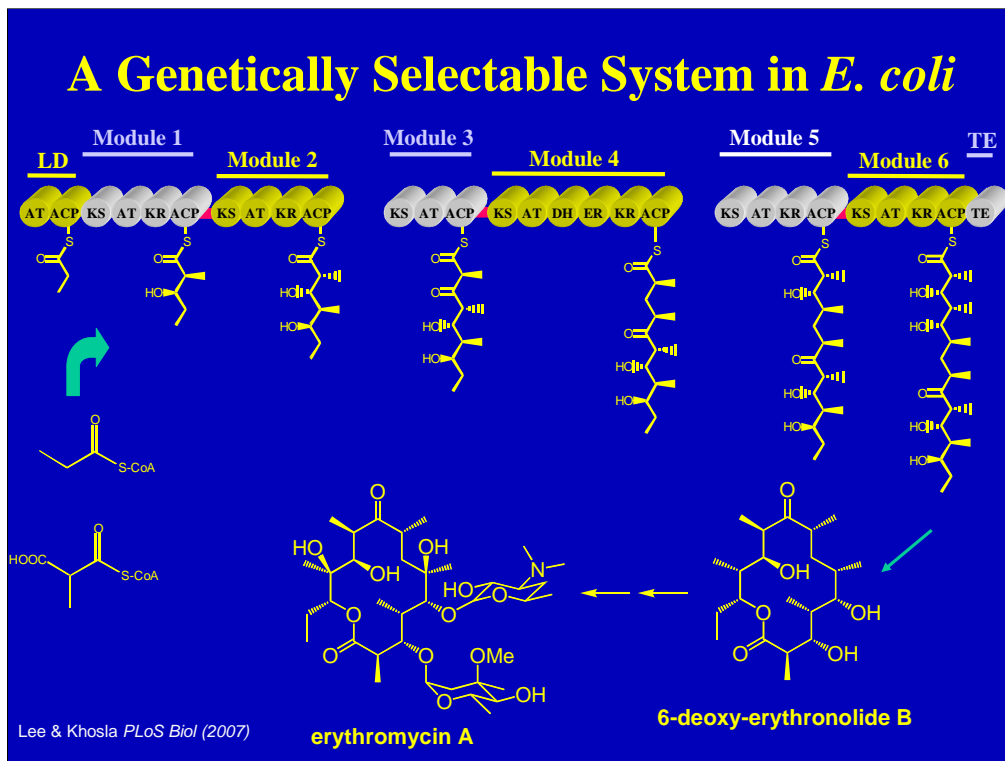
Kao, et al. *J. Am. Chem. Soc.* (1997)

Making Polyketide Libraries

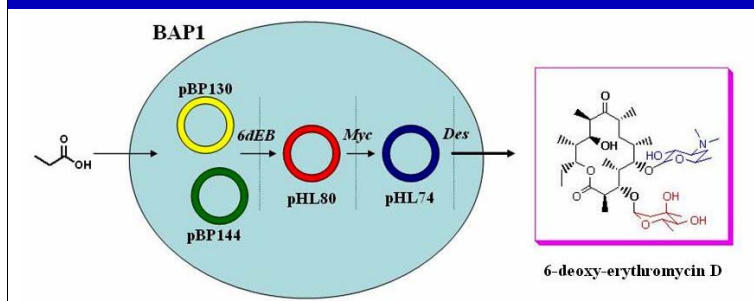


R. McDaniel (PNAS, 1999)





A Genetically Selectable System in *E. coli*



Lee & Khosla *PLoS Biol* (2007)

A Genetically Selectable System in *E. coli*



Lee & Khosla *PLoS Biol* (2007)