



## Life Engineering Symposium

University of California, San Francisco, Mission Bay Campus - August 19-20, 2005

### *Synthetic Eukaryotic Cells / Stem Cells*

#### *Reprogramming Cellular Signaling Systems*

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#### **Abstract:**

Eukaryotic cell signaling proteins are built using modular components - a framework that may facilitate the evolution of diverse and innovative connectivities, circuits, and phenotypic responses. We have been using modular recombination strategies to explore the logic and evolvability of protein nodes and circuits controlling stress responses pathways and cell shape and motility.