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Innovation in Biology: the Evolution and Engineering of New Cellular Behaviors

Friday, March 14, 2008
MIT Building 3, Room 270
Light Refreshments served at 2:45 p.m.

Eukaryotic cells display an extremely diverse range of signaling behaviors. Remarkably, these diverse responses are, for the most part, regulated by a common, limited toolkit of molecular components. What is the origin of the evolutionary plasticity of these signaling systems, and how do new and diverse behaviors arise? We are investigating the modular design principles of cell signaling systems, and how these principles can be exploited by evolution, pathogens, and engineers to reprogram cellular behavior.

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