

LIFE SCIENCES SEMINARS



"DEVELOPING TOOLS AND TECHNOLOGIES TO RATIONALLY ENGINEER BIOSYNTHETIC SYSTEMS"

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Our ability to routinely engineer microorganisms for applications is limited by the scarcity of a well-characterized compendium of genetic parts that function in a variety of contexts. There is also a need for developing methods to study the performance variability of a characterized part in a particular sequence, environmental and host context, so that genome-scale engineering efforts can be realized. In this talk, I will present a series of examples in developing a large compendium of genetic parts, methods to characterize the context effects on part performance, sequence-activity models to understand the mechanistic details of a part operation, and the development of tools to aid in sharing and visualization of these datasets. These tools are valuable in building bio-manufacturing platforms to produce valuable chemicals.

TUES., SEPT. 15TH
4:00 P.M.

717 POTTER STREET
ROOM 141
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HOST:
BEN BROWN

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