

Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Bacterial Transformation and Competition Under Antibiotic Stress JONAS PEDERSON, Danish Technical University, ANDREW BERGMAN, None, CHRIS CLEVELAND, Princeton University, TOLGA CAGATAY, UT Southwestern, ROBERT AUSTIN, Princeton University, GABOR BALASZI, M.D. Anderson Medical Center — Transformation, the process by which bacteria uptake DNA directly from their environment and incorporate it as their own genetic material, is a form of Horizontal Gene Transfer that occurs throughout nature as an important mechanism for spurring on bacterial evolution. We examine the capacity of bacteria to undergo transformation and will discuss work that has been done by the Austin group using Micro-Habitat Patches (MHPs) to examine the emergence of phenotypes due to horizontal gene transfer.

Austin Robert
Princeton University

Date submitted: 11 Nov 2011

Electronic form version 1.4