A Working Tally: Research Goals and Progress

Savannah E. Sanchez Dimensions/CF Group 2012

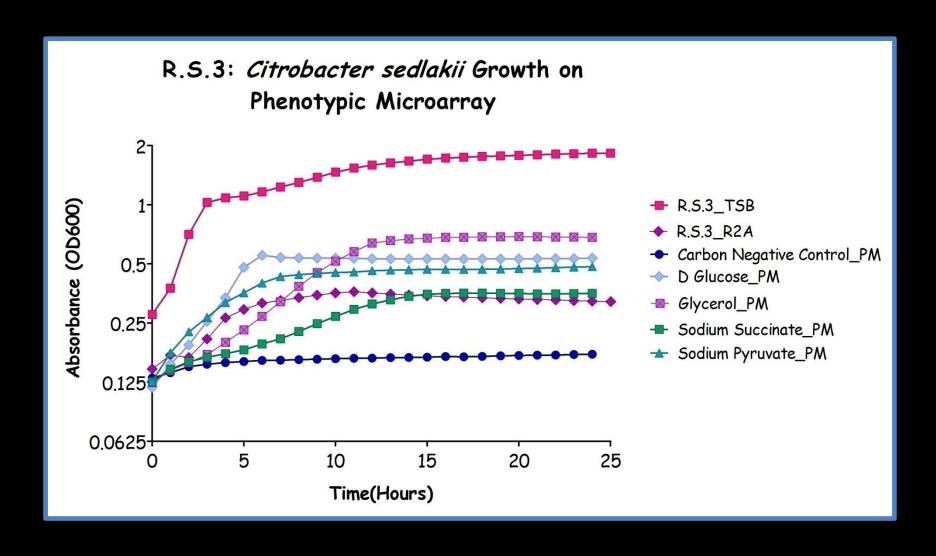
Past Obsessions

Goals	Accomplished?/Comments
Organizing/Maintaining Chemostats: i. Updating Weekly Data ii. Sending Samples to UC Davis iii. Organizing Cullen and Cat iv. Solving Contamination Issues	All goals associated with Chemostats have been postponed until resolution with contamination issues are solved.
Branching Phenotypic Microarrays: i. Running broad spectrum of known bacterial species on the PMs. ii. Obtaining data for Dimensions Project	In progress, few remaining species to test. Accomplished; Data follows
Master's Thesis/Preparation: i. CF related research ii. MS curriculum iii. Financial Support	In progress, discussing projects with various individuals. Currently applying to scholarships

Current Obsessions

Goals	Accomplished?/Comments
Organizing/Maintaining Chemostats: i. Updating Weekly Data ii. Sending Samples to UC Davis iii. Organizing Cullen and Cat iv. Solving Contamination Issues	Chemostats scheduled to resume on Wednesday, April 25 th .
 Branching Phenotypic Microarrays: i. Running broad spectrum of known bacterial species on the PMs. ii. Obtaining data for Dimensions Project 	Run remaining bacterial species on PM1 for R.Edwards Compile/upload PM data for 9 clones/week.
Master's Thesis/Preparation: i. CF related research ii. MS curriculum iii. Financial Support	Plan to speak to Forest about direction and focus of my MS work/education.

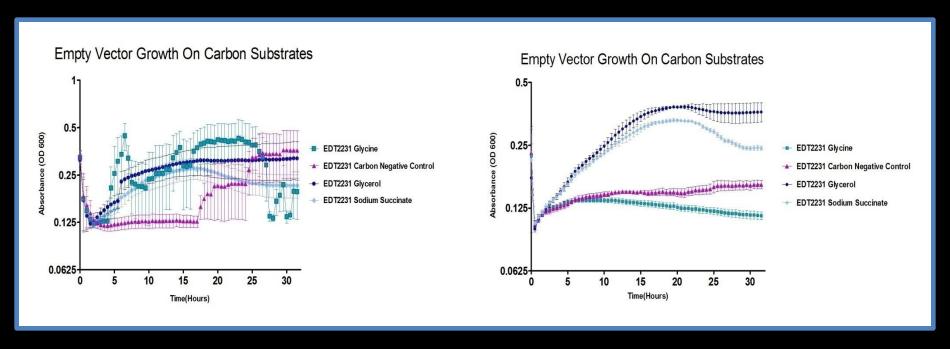
Versatility of Phenotypic Microarrays



Evidence Supporting Progress of Phenotypic Microarrays

Past PM Methods/Materials

Updated PM Methods/Materials



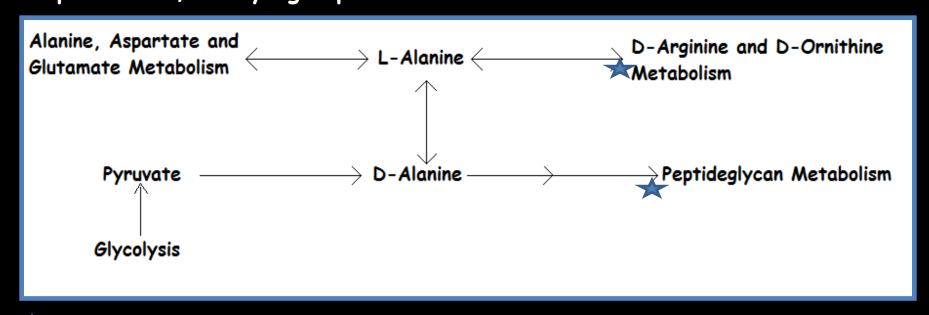
EDT 2235: Validation of Known Function Through Metabolomics

Ranked metabolic pathways:

Sugar metabolism, nucleotide metabolism, lipopolysaccharide modification, peptidoglycan production, polysaccharide production, deoxysugar production

Identified putative domains:

Nucleotide-sugar epimerase





Pathways with observed up regulation based on metabolomic data.

EDT2235: Attempt to Compare/Validate Known Function Through Phenotypic Microarrays

