Filename	Description
run.jl	**Main Run file.** This includes calculations and commands to retrieve and *update* flux array, objective function, and run the function calculate_optimal_flux_distribution. Output of this file gives the required flux values. Note that it also retrieves the stoichiometric matrix, species bounds array from the data_dictionary.jl file and creates local variables for the parameters to be used with the function calculate_optimal_flux_distribution.
data_dictionary.jl	Julia dictionary file that contains the list of metabolites, stoichiometric matrix, *default* flux bounds array for each reaction, species balance array, objective function array (set as 0 for all in this file).
calculate_optimal_flux_distribution.jl	Function provided by Dr. Varner
Atom_balance.jl	Code to check if elements are balanced.
Pathway_NEW.pdf	Schematic of reaction system. Includes reactions and exchange fluxes,
Enzyme Km.pdf	Enzyme Km values based on Park et al. paper
List_of_Reactions_and_Metabolites.txt	Contains ordered list of intracellular and exchange reactions, and the list of metabolites.

Part a
data_dictionary.jl file has the stoichiometric matrix

Part b
Atom_balance.jl has the atomic balance calculations and the elemental array.

Part c
run.jl file has the results tuple.