PUBLICATIONS

1. Gonzalez JE, Antoniewicz MR. Tracing metabolism from lignocellulosic biomass and gaseous substrates to products with stable-isotopes. *Curr Opin Biotechnol*. In Press, 2017.

2. Gonzalez JE, Long CP, Antoniewicz MR. Comprehensive analysis of glucose and xylose metabolism in *Escherichia coli* under aerobic and anaerobic conditions by ^{13}C-metabolic flux analysis. *Metab Eng*, In Press, 2017

3. Whitaker WB, Jones JA, Bennett K, Gonzalez JE, Vernacchio VR, Collins SM, Palmer MA, Schmidt S, Antoniewicz MR, Koffas MA, Papoutsakis ET. Engineering the biological conversion of methanol to specialty chemicals in *Escherichia coli*. *Metab Eng*, In Press, 2017

4. Long CP, Au J, Gonzalez JE, Antoniewicz MR. ^{13}C-metabolic flux analysis of microbial and mammalian systems is enhanced with GC-MS measurements of glycogen and RNA labeling. *Metab Eng*, 38:65-72, 2016

5. Long CP, Gonzalez JE, Sandoval NR, Antoniewicz MR. Characterization of physiological responses to 22 gene knockouts in *Escherichia coli* central carbon metabolism. *Metab Eng*, 37:102-113, 2016

6. Sandberg TE, Long CP, Gonzalez JE, Feist AM, Antoniewicz MR, Palsson BO. Evolution of *E. coli* on [U-^{13}C]glucose reveals a negligible isotopic influence on metabolism and physiology. *PloS one*, 11(3):e0151130, 2016

7. Seo BR, Bhardwaj P, Choi S, Gonzalez J, Andresen Eguiluz RC, Wang KC, Mohanan S, Morris PG, Du B, Zhou Xk, Vahdat LT, Verma A, Elemento O, Hudis, CA, Williams RM, Dannenberg AJ, Gourdon D, and Fischbach C. Obesity-dependent changes in interstitial ECM mechanics promote breast tumorigenesis**.** *Sci Transl Med.* 7(301):301, 2015

8. Gonzalez JE, Antoniewicz M, Metabolic network reconstruction and validation of the methanogen *Methanosarcina acetivorans (manuscript in preparation)*

9. Seo BR, Gonzalez J, Moore S, Fischbach C, Cancer-activated adipocytes, a potential source of myofibroblasts in mammary tumors *(manuscript in preparation)*

PRESENTATIONS

Oral Presentations

1. Gonzalez JE, Steinberg L, Whitaker B, Bennett K, Papoutsakis ET, Antoniewicz MR. Application of ^{13}C-MFA in *Methanosarcina acetivorans* and *Escherichia coli* for Biofuel Production. Society for Industrial Microbiology and Biotechnology Annual Meeting, Philadelphia, PA, August 4th, 2015

Poster Presentations

1. Gonzalez JE, Long CP, Antoniewicz MR. Comprehensive analysis of glucose and xylose metabolism in *E. coli* under aerobic and anaerobic conditions. Metabolic Engineering 11, Kobe, Japan, June 26th, 2016

2. Gonzalez JE, Whitaker WB, Bennett, KB, Papoutsakis ET, Antoniewicz MR. Bioconversion of methane to butanol by metabolic engineering of *Methanosarcina acetivorans* and *Escherichia coli*. Metabolic Engineering 11, Kobe, Japan, June 26th, 2016

3. Whitaker WB, Bennett KB, Gonzalez JE, Long C, Steinberg S, Falara V, Sandoval N, Price V, Raeeszadeh M, Dong M, Jones A, Papoutsakis ET, Chen W, Antoniewicz MR, Bahnson B, Koffas M. Synthetic Methylotrophy to Liquid Fuel. DOE ARPAE Summit, San Diego, CA, Jan 20th, 2016

4. Gonzalez JE, Steinberg L, Whitaker B, Bennett K, Papoutsakis ET, Antoniewicz MR. Application of ^{13}C-tracers in *Methanosarcina acetivorans* and *Escherichia coli* for Biofuel Production. 3rd Microbial Systems Symposium, University of Delaware, Newark, DE, February 3rd, 2016