Xiaomeng You

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Current Position

Ph.D. student 2014-current
Department of Food Science, University of Massachusetts, Amherst

Graduate research assistant 2014-current
Department of Food Science, University of Massachusetts, Amherst

Education

M.S. Nutritional Biochemistry 08/2012-08/2014
University of North Carolina at Chapel Hill

B.S. Nutrition Science 09/2008-06/2012
Shanghai Jiaotong University

Publications

Ce Qi, Jin Sun, Ya Li, Min Gu, Tim Goulette, **Xiaomeng You**, David A. Sela, Xingguo Wang and Hang Xiao, "Peyer's patch-specific Lactobacillus reuteri strains increase extracellular microbial DNA and antimicrobial peptide expression in the mouse small intestine", Food and Function, 2018 (accepted).

Xiaomeng You, Jonah E. Einson, Cynthia L. Lopez-Pena, Mingyue Song, Hang Xiao, D. Julian McClements and David A. Sela, "Food-grade cationic antimicrobial ε-polylysine transiently alters the gut microbial community and predicted metagenome function in CD-1 mice", npj Science of Food, 1(1), 8.

Cary R. Allen-Blevins, **Xiaomeng You**, Katie Hinde, David A. Sela, "Handling stress may confound murine gut microbiota studies", PeerJ, 5, e2876.

Scholarships and Awards

Pre-dissertation Research Grant 2017
Graduate School, University of Massachusetts, Amherst

First prize in Hultin Competition that recognizes research excellence 2017
Department of Food Science, University of Massachusetts, Amherst

Stanley Charm Graduate Fellowship 2014-2017
Department of Food Science, University of Massachusetts, Amherst

Merit Student 2010-2012
Shanghai Jiaotong University

Frist prize Scholarship 2010-2012

Shanghai Jiaotong University

Third prize Scholarship 2009
Shanghai Jiaotong University

Research Experience

Urea is recycled by the infant gut commensal *Bifidobacterium longum* subsp. *infantis*
Sela Lab, UMass 2014-2017

- To evaluate the ability of *Bifidobacterium longum subsp infantis* to utilize urea by characterizing their global gene expression while subsisting on this substrate as a primary nitrogen source

Handling stress may confound murine gut microbiota studies Sela Lab, UMass 2015

- To determine the effect of a less-invasive technique other than oral garage for human milk oligosaccharides administration on murine gut microbiota.

Food-grade cationic antimicrobial ε-polylysine transiently alters the gut microbial community and predicted metagenome function in CD-1 mice
Sela Lab, UMass 2014-2015

- To determine the effect of the food-grade cationic antimicrobial ε-polylysine on the gut microbiome structure and predicted metagenomic function in a mouse model by next gen sequencing technology.

Interaction of Dietary Fat Types and Gut Microbiome on Modulation of Whole Body Energy Balance Zeisel Lab, UNC-Chapel Hill, NC 2012-2014

- To determine the effect of modulation of the gut microbiome by antibiotics on energy balance in Sprague Dawley rats fed with a 45% high fat diet containing primary saturated fatty acids (SFA) vs. polyunsaturated fatty acids (PUFA).

The effect of polyphenol-rich plant extracts on GLP-1 secretion in STC-1 cells induced by LPS Swick Lab, UNC-Chapel Hill, NC 2012

- To identify candidate plant extracts rescuing the blunted GLP-1 secretion STC-1 cell induced by LPS.

A High-protein Diet on Sprague Dawley Rats weight change and sexual development
Nutrition Department, Shanghai Jiaotong University, Shanghai, China 2010 – 2011

- To investigate the relationship between weight gain and sexual development and the effect of a high-protein diet on them.

Professional Presentations

The infant bacterial commensal, *Bifidbacterium longum subsp. infantis* participates in breast milk urea nitrogen salvaging
Poster, Pioneer Valley Microbiology Symposium, Amherst, MA 01/15/2016

Food-grade antimicrobial complex of ε-polylysine and pectin influence the structure of the murine gut microbiome
Poster, Pioneer Valley Microbiology Symposium, Amherst, MA 01/15/2016

The participation of an infant harbored bacterial commensal in urea nitrogen salvaging
Poster, Experimental Biology, San Diego, CA 04/03/2016

Food-grade antimicrobial ε-polylysine transiently perturbs the structure of the murine gut microbiome and predicted metagenome function
Poster, Experimental Biology, San Diego, CA 04/05/2016
Poster, American Society for Microbiology, Boston, MA 06/07/2016

Urea is recycled by the infant gut commensal *Bifidobacterium longum* subsp. *infantis*
Talk, Pioneer Valley Microbiology Symposium, Amherst, MA 01/14/2017