

BIOGRAPHICAL SKETCH

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NAME: Panich, Justin

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Deputy Director of the Microbial and Enzyme Discovery Group

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
University of Wisconsin - La Crosse, La Crosse, Wisconsin	BS	05/2013	Biomedical Microbiology, Chemistry
University of Utah, Salt Lake City, Utah	PHD	05/2019	Molecular, Cellular, and Evolutionary Biology

A. Personal Statement

Justin Panich is a well-rounded scientist with management experience. He is currently working on several projects focused on CO₂ bioconversion and engineering carbon efficient metabolism in microbial hosts and microbial communities. Justin has worked with several public and private funding agencies including DOE-BETO, ARPA-E, and Shell Oil. Justin is currently engaged in collaborations with Jay Keasling lab, Patrick Shih lab, Dave Savage lab, and Ron Milo lab.

B. Positions, Scientific Appointments and Honors**Positions and Scientific Appointments**

2023 -	Deputy Director of the Microbial and Enzyme Discovery Group, Joint BioEnergy Institute , Emeryville, CA
2022 -	Project Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA
2020 - 2022	Director of Commercialization - Associate, Joint BioEnergy Institute, Emeryville, CA
2019 - 2022	Biologist Postdoc Fellow, Lawrence Berkeley National Laboratory, Berkeley, CA
2014 - 2019	Graduate Teaching Assistant, University of Utah Department of Biology, Salt Lake City, UT
2013 - 2019	Graduate Research Associate, University of Utah , Salt Lake City, UT
2011 - 2013	Research Associate, Mycophyte Discovery, LLC, La Crosse, WI

C. Contribution to Science

1. a. Flamholz A, Dugan E, Panich J, Desmarais J, Oltrogge L, Fischer W, Singer S, Savage D. Trajectories for the evolution of bacterial CO₂-concentrating mechanisms. Proceedings of the National Academy of Sciences. 2022 December; 119(49):- . Available from: <https://pnas.org/doi/10.1073/pnas.2210539119> DOI: 10.1073/pnas.2210539119
- b. Panich J, Fong B, Singer SW. Metabolic Engineering of Cupriavidus necator H16 for Sustainable Biofuels from CO₂. Trends Biotechnol. 2021 Apr;39(4):412-424. PubMed PMID: 33518389.