**Deepti Tanjore, Ph.D.**

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**Education and Training**

Andhra University Chemical Engineering B.S. 2003

North Carolina State University Biological Engineering M.S. 2005

Pennsylvania State University Biological Engineering Ph.D. 2009

University of California, Berkeley Business Administration MBA Expected 2020

**Research and Professional Experience**

2011-present Director, US DOE Advanced Biofuels Process Dev Unit, LBNL Emeryville CA

2019-present Director

2011-present Research Scientist

2011-2011 Scientist II, Fermentation and Process Development, Menon Inc. San Diego

2009-2011 Postdoctoral Scholar, UC Riverside CE-CERT Riverside, CA

**Recent / Related Publications**

1. Banerjee, D., Eng, T., Lau, A.K., Sasaki, Y., Wang, B., Chen, Y., Prahl, J-P, Singan, V.R., Herbert, R.A., Liu, Y.,  Tanjore, D., Petzold, C.J., Keasling, J.D., and Mukhopadhyay, A. 2020. Genome-scale metabolic rewiring improves titers rates and yields of the non-native product indigoidine at scale. Nature Communications 11: 5385.
2. Wehrs, M., Thompson, M.G., Banerjee, D., Prahl, J-P, Morella, N. M., Barcelos, C. A., Moon, J. A., Costello, Z., Keasling, J. D., Shih, P. M., Tanjore, D.\*, and Mukhopadhyay, A. 2020. Investigation of Bar-seq as a method to study population dynamics of Saccharomyces cerevisiae deletion library during bioreactor cultivation. Microbial Cell Factories 19: 167.
3. Wehrs, M., Tanjore, D., Eng, T., Lievense, J., Pray, T.R., Mukhopadhyay, A. 2019. Engineering Robust Production Microbes for Large-Scale Cultivation. Trends in Microbiology.
4. Narani, A., Konda, N.V.S.N.M., Chen, C.-S., Tachea, F., Coffman, P., Gardner, J., Li, C., Ray, A.E., Hartley, D.S., Simmons, B., Pray, T.R., Tanjore, D. 2019. Simultaneous application of predictive model and least cost formulation can substantially benefit biorefineries outside Corn Belt in United States: A case study in Florida. Bioresource Technology, 271, 218-227.
5. Wehrs, M., Prahl, J.-P., Moon, J., Li, Y., Tanjore, D., Keasling, J.D., Pray, T., Mukhopadhyay, A. 2018. Production efficiency of the bacterial non-ribosomal peptide indigoidine relies on the respiratory metabolic state in S. cerevisiae. Microbial Cell Factories, 17(1), 193.
6. Yuzawa, S., Mirsiaghi, M., Jocic, R., Fujii, T., Masson, F., Benites, V.T., Baidoo, E.E.K., Sundstrom, E., Tanjore, D., Pray, T.R., George, A., Davis, R.W., Gladden, J.M., Simmons, B.A., Katz, L., Keasling, J.D. 2018. Short-chain ketone production by engineered polyketide synthases in Streptomyces albus. Nature Communications, 9(1), 4569.
7. Coffman, P., McCaffrey, N., Gardner, J., Bhagia, S., Kumar, R., Wyman, C.E., Tanjore, D. 2018. In Situ Rheological Method to Evaluate Feedstock Physical Properties Throughout Enzymatic Deconstruction. Frontiers in Energy Research, 6(53).
8. Gardner, J. L., He, W., Li, C., Wong, J., Sale, K. L., Simmons, B. A., . . . Tanjore, D. (2015). Calorimetric evaluation indicates that lignin conversion to advanced biofuels is vital to improving energy yields. RSC Advances, 5(63), 51092-51101. doi:10.1039/C5RA01503K
9. Kolinko, S., Wu, Y.-W., Tachea, F., Denzel, E., Hiras, J., Gabriel, R., . . . Singer, S. W. (2018). A bacterial pioneer produces cellulase complexes that persist through community succession. Nature Microbiology, 3(1), 99-107. doi:10.1038/s41564-017-0052-z
10. Li, C., Tanjore, D., He, W., Wong, J., Gardner, J. L., Sale, K. L., . . . Singh, S. (2013). Scale-up and evaluation of high solid ionic liquid pretreatment and enzymatic hydrolysis of switchgrass. Biotechnology for Biofuels, 6(1), 154. doi:10.1186/1754-6834-6-154
11. Li, C., Tanjore, D., He, W., Wong, J., Gardner, J. L., Thompson, V. S., . . . Singh, S. (2015). Scale-Up of Ionic Liquid-Based Fractionation of Single and Mixed Feedstocks. BioEnergy Research, 8(3), 982-991. doi:10.1007/s12155-015-9587-0
12. Narani, A., Coffman, P., Gardner, J., Li, C., Ray, A. E., Hartley, D. S., . . . Tanjore, D. (2017). Predictive modeling to de-risk bio-based manufacturing by adapting to variability in lignocellulosic biomass supply. Bioresource Technology, 243, 676-685. doi:http://dx.doi.org/10.1016/j.biortech.2017.06.156
13. Tanjore, D., & Daubert, C. R. (2011). A vane-in-cup approach to measure viscoelastic properties of gelatin gels through torque-time responses from Brookfield YR-I viscometer. Applied Rheology, 21(6).
14. Tanjore, D., & Richard, T. L. (2015). A Systems View of Lignocellulose Hydrolysis. In P. Ravindra (Ed.), Advances in Bioprocess Technology (pp. 387-419). Cham: Springer International Publishing.
15. Tanjore, D., Richard, T. L., & Marshall, M. N. (2012). Experimental methods for laboratory-scale ensilage of lignocellulosic biomass. Biomass and Bioenergy, 47, 125-133. doi:https://doi.org/10.1016/j.biombioe.2012.09.050
16. Tanjore, D., Shi, J., & Wyman, C. E. (2011). Chapter 4 Dilute Acid and Hydrothermal Pretreatment of Cellulosic Biomass Chemical and Biochemical Catalysis for Next Generation Biofuels (pp. 64-88): The Royal Society of Chemistry.

**Intellectual Property**

1. Mirsiaghi, M. Sundstrom, E., Tanjore D., Pray T., Mancinelli L., Smernoff D. T. (2021). Patent No.: US 10,907,223 B2. Method to produce a polysaccharide gel by increasing the pH of the polysaccharide.
2. Li, C., Liang, L., Gardner, J., & Tanjore, D. (2017). International Publication Number WO 2017/015242 A1 Patent Application# PCT/US2016/042863. Conversion of a soiled post-consumer cellulosic composition

*Patent Applications*

1. Masson, F., Honeycutt, N., Mirsiaghi, M., Sundstrom, E., Tanjore, D., & Pray, T. (2017). United States Patent application in progress

**Synergistic Activities**

Participated in DOE sponsored Energy I-Corps in two separate cohorts (#2 and #8); interviewed 200+ potential customers for microfluidics and fermentation technologies in the Lean Launchpad based program

Advised Rethink Green, a used-carpet recycling startup, as a Mentor in CleanTech Open, a business accelerator program

Invited Lectures:

1. Engineering, Entrepreneurship and Climate Change (EE292H) course at Stanford Univ, Fall 2016
2. Chabot Space and Science Center Guest Lecture Series, Oakland, California, Fall 2015
3. Next Generation Biomass Conversion Short Course, Philadelphia, Pennsylvania, Fall 2014

Member of:

1. Advisory Board of BioManufacturing Program, Laney College, Oakland, CA (Since 2017)
2. Science Technical Advisory Board of Biotechnology and Analytical Chemistry (Since 2019)

Evaluated startups for seed-level investment decisions ($500k) at

1. Cyclotron Road Program, a DOE funded LBNL program that sponsors groundbreaking energy solutions
2. Breakout Labs, a Thiel Foundation Institute that supports science advancing risky undertaking