



SCHOOL OF NATURAL SCIENCES PHYSICS COLLOQUIUM 293

What Are Second Generation Biofuels, and How Can We Make Them?

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ABSTRACT

The Joint BioEnergy Institute is focused on developing advanced second generation biofuels which can replace gasoline, diesel and jet fuels while providing significant environmental benefits in the form of reduced global dependence on crude oil and minimizing CO₂ production. Our goal is to apply whole cell models and other modeling techniques to assist metabolic engineering efforts in fatty acid-derived biofuel production. Our analysis can provide insights into cellular metabolism required for systematic genetic engineering efforts. We are also developing CRISPR based tools to reengineer the E. coli genome at scale.

BIO:

David Ando was a graduate student at UC Merced and has a Ph.D in Physics. He is now a postdoc at Lawrence Berkeley National Laboratory.