

Tactical Aviation Fuels



Goal:

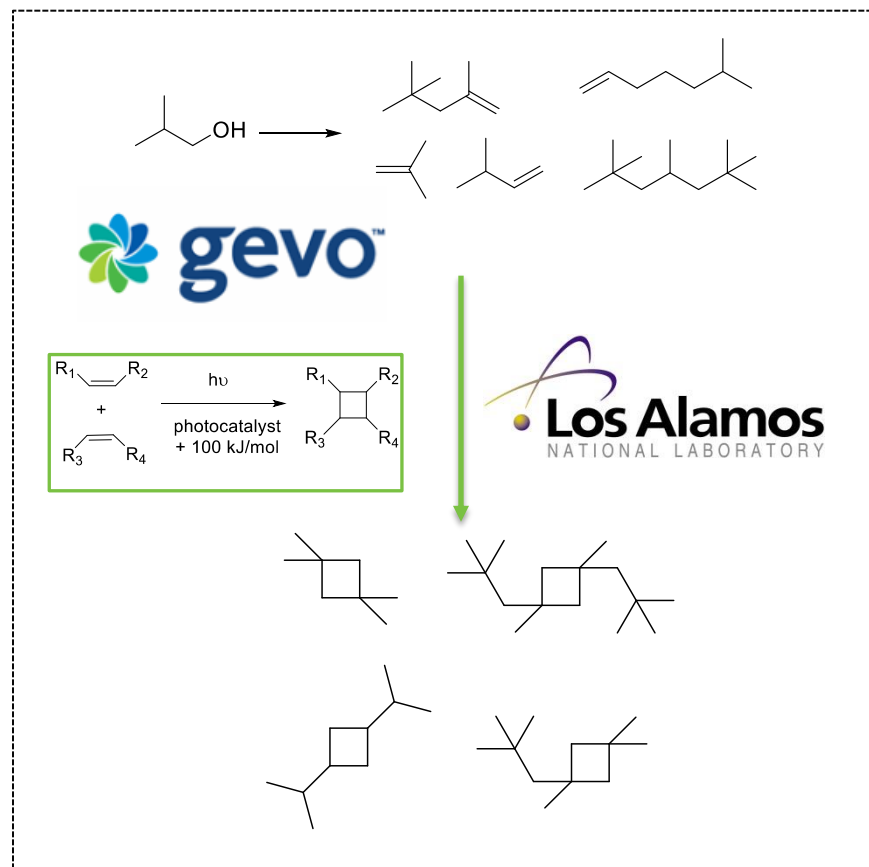
- Increase the energy density of Gevo product streams for tactical fuels.

Approach:

- Increase energy density upon cyclization by at least 100 kJ/mol.
- Utilize photocatalytic (visible light) [2+2] cycloadditions
- Develop air-stable, robust photocatalysts on solid supports for flow reactors

Impact on the Bioenergy Industry:

- Diversify current product stream to address the needs of an immediate customer (DoD)
- Provide revenue while seeking wider use of this product (i.e. during ASTM testing)



ChemCatBio Capabilities Leveraged:

- Rapid catalyst screening
- Scale-up and continuous flow reactors
- Photo-catalytic device manufacturing