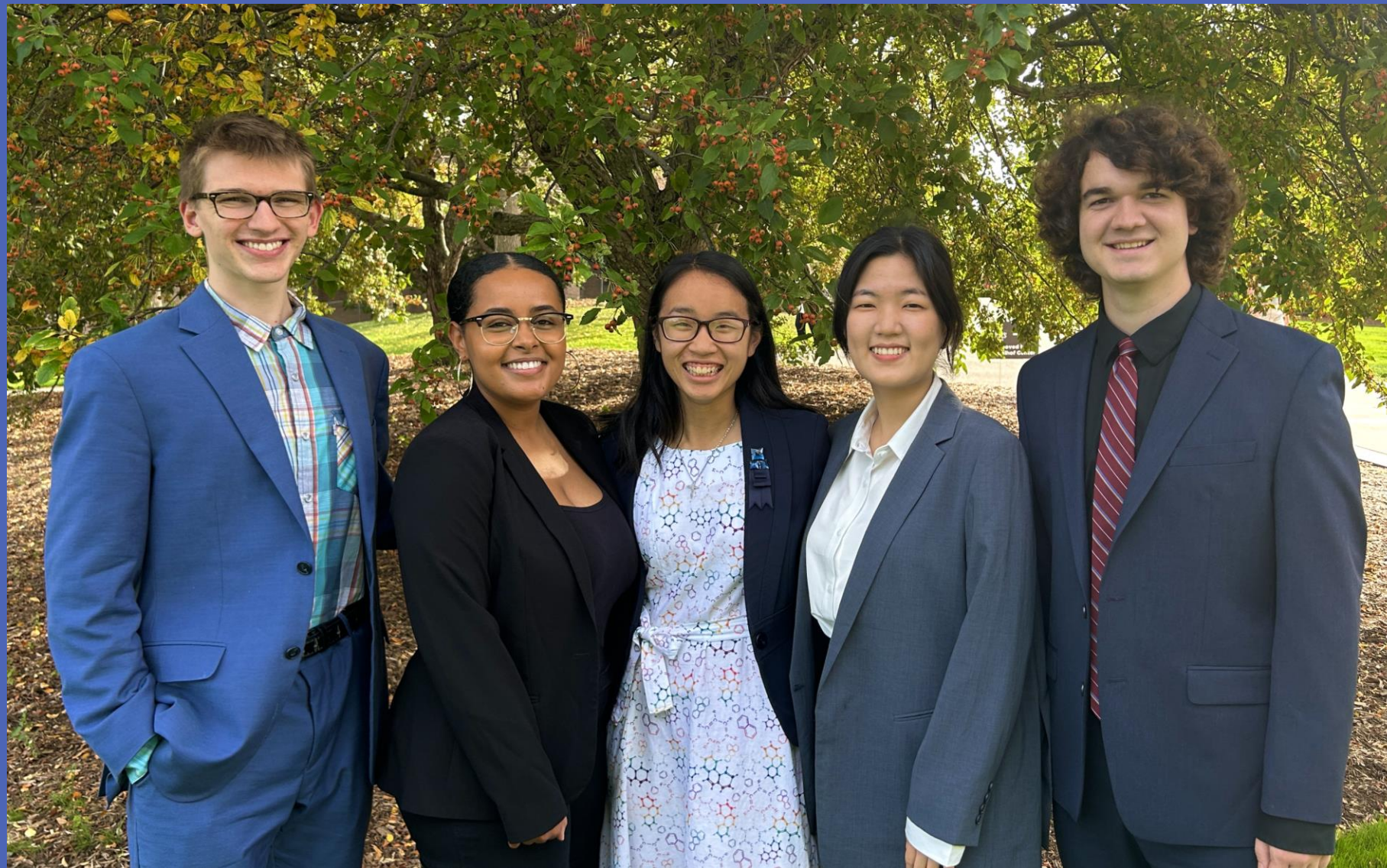


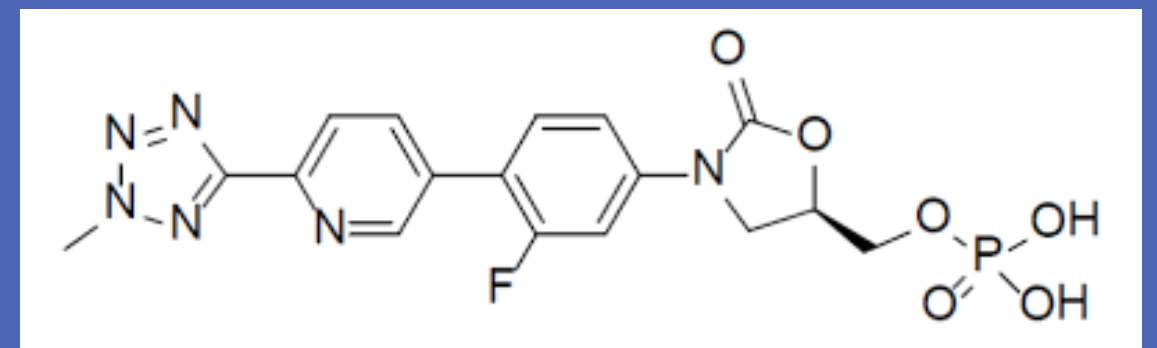
Team 17 : The Antibiotic Strikes Back



Left to Right: Colton Stonehouse (ChE), Neti Waal (ChE), Adelaide Stonehouse (ChE), Daeun Joo (ChE), Noah Pehrson (ChE)

The rise in antibiotic-resistant bacteria is a growing threat. Oxazolidinones have demonstrated remarkable efficacy since the 1990s in their use as a last line of defense against bacterial infections. Tedizolid phosphate, a newly synthesized oxazolidinone, has been reported to be 2-to-8 times more potent than its counterpart, linezolid, but at 50 times the cost per treatment.

We will design a continuous-flow process to produce medical-grade tedizolid phosphate at a significantly reduced cost while minimizing waste and reliance on hazardous materials.



Tedizolid phosphate