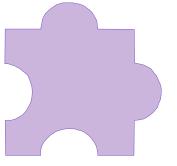
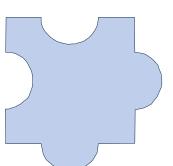
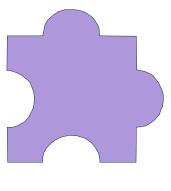


## New Drugs for Tuberculosis: Making them Faster and Cheaper

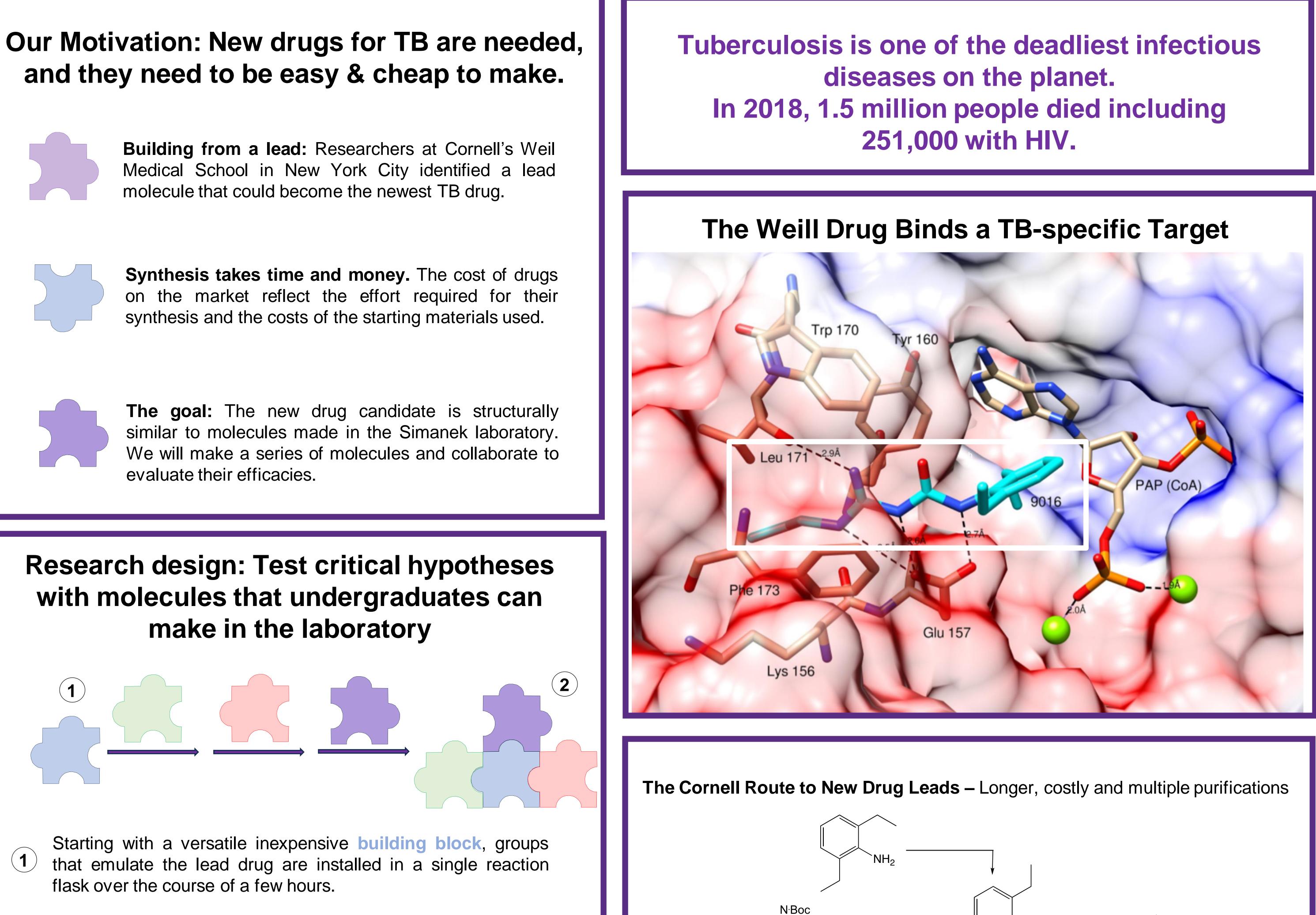








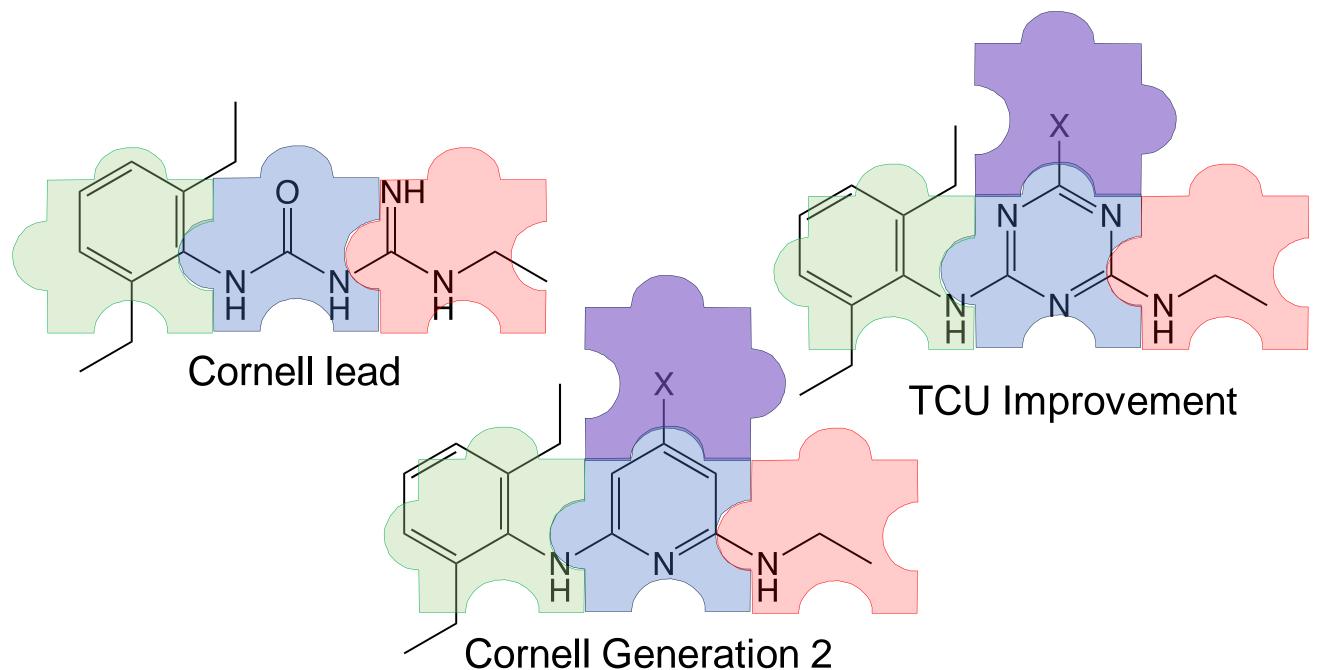
# make in the laboratory



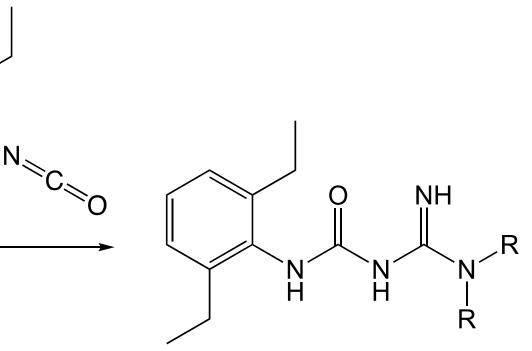
Boc

2) Hydrolysis

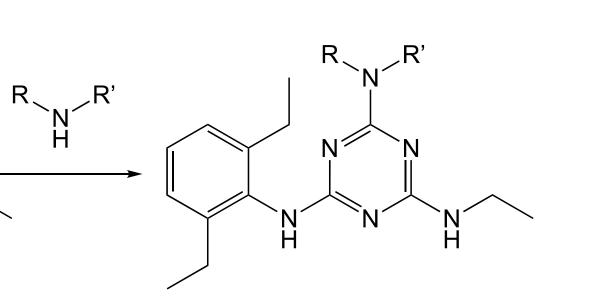
The reaction works in high yields and purification is accomplished  $(\mathbf{2})$ by precipitation!



Undergraduate Researcher: Grace Bobo Graduate Student Mentor: Alex Menke Faculty Advisor: Eric E. Simanek



The TCU Route to New Drug Leads – Two steps, high yields and easy purification



### What pharmaceutical companies want:

Short reac

Inexpensive build

Safe

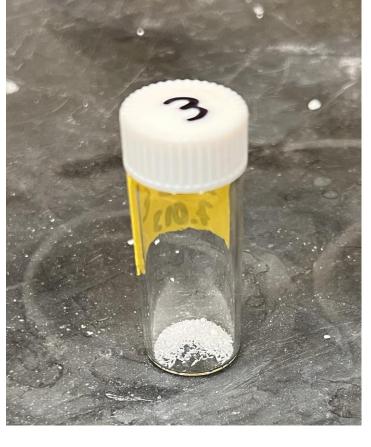
Low tem

Nontoxic inte

Green (water) reaction

No chroma

Easy p





#### What's next for the undergraduates?

Grace – Grace is a 2nd year student who has been working in the laboratory since she was in high school. She plans on working towards a PhD when she graduates.

And Alex — Alex, a former TCU undergraduate, is on track to defend his PhD thesis in December 2024. He was awarded a fellowship to work at the FDA for three months last summer.

Professor Simanek is the Robert A. Welch Chair in Chemistry. After spending 12 years on the faculty at Texas A&M University, he moved to TCU in 2010.

This work *has been* & *will be supported* by the National Institutes of Health through two grants (2019-27) awarded to Prof. Simanek/TCU totaling \$750,000.

DEPARTMENT OF

## Chemistry & Biochemistry

COLLEGE OF SCIENCE&ENGINEERING

	TCU	Cornell	
Few steps			
ction times			
ding blocks			
e chemistry			
nperatures			
ermediates			
conditions			
natography			
purification			
High Yields			

The reaction product is filtered off as a white (pure) solid in many cases (as shown above).