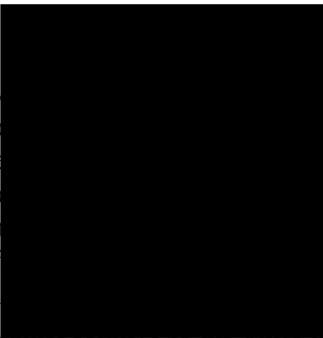


As the need for new pharmaceuticals continues to rise, the addition of a fluorine atom to a pharmaceutical compound is an increasingly popular way to address some of the largest challenges facing the industry, including metabolic stability and bioavailability. About a quarter of pharmaceuticals on the market or in clinical trials contain at least one fluorine atom.<sup>2</sup> Trifluoromethyl groups, when attached to a singular carbon, are especially common additives, as the effect of the trifluoromethyl group must be in the correct three dimensional manner. The research into trifluoromethyl groups is ongoing.



As the need for new pharmaceuticals continues to rise, the addition of a fluorine atom to a pharmaceutical compound is an increasingly popular way to address some of the largest challenges facing the industry, including metabolic stability and bioavailability. About a quarter of pharmaceuticals on the market or in clinical trials contain at least one fluorine atom.<sup>2</sup> Trifluoromethyl groups, when attached to a singular carbon, are especially common additives, as the effect of the trifluoromethyl group must be in the correct three dimensional manner. The research into trifluoromethyl groups is ongoing.

v

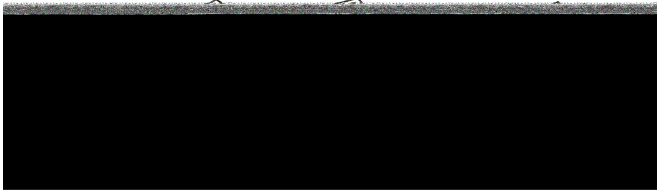
v

By reporting a  $m/z$  value of 380, their identity was confirmed by high-resolution mass spectrometry.

Δ

Δ

spectrometry.



Peptoids A and B were successfully synthesized using solid-phase synthesis.

In future work, I plan to purify both peptoids using reverse-phase HPLC. Once isolated, the peptoids will be tested as catalysts in the trifluoromethylation reaction. The products will be analyzed using normal-phase HPLC to determine enantioselectivity.

1. Chan, P. W. Y.; Ya