Significance: Denmark and co-workers report an intermolecular enantioselective diamination of alkenes by using a chiral arylselenium reagent as a redox catalyst. A wide variety of trans-1,2-disubstituted imidazolidin-2-ones were obtained in yields of up to 89% and with ee values of up to 98:2.

Comment: By this method, aryl–alkyl or diaryl olefins were diamminated in good yields and with moderate to high enantioselectivities. However, poor reactivity was observed with dialkyl substrates, which limits the general applicability of this reaction.