



Showcasing research from Prof. Ning Li's laboratory, South China University of Technology and from Prof. Qi Chen's laboratory, East China University of Science and Technology.

Engineering carbonyl reductase for one-pot chemobiocatalytic enantioselective synthesis of a value-added N-containing chiral alcohol from N-acetyl-D-glucosamine

Structure-guided engineering of ScCR was performed to improve activity and stability, thus allowing one-pot chemobiocatalytic synthesis of a N-containing chiral alcohol from inexpensive NAG. Great power of protein engineering was demonstrated to fix the incompatibility between chemo- and bio-catalysts in chemobiocatalysis.

As featured in:



See Qi Chen, Ning Li *et al.*,
Green Chem., 2023, 25, 5051.