



Showcasing research from Professor Lihan Zhang's laboratory, Department of Chemistry, Westlake University, Hangzhou, China.

A metabologenomics strategy for rapid discovery of polyketides derived from modular polyketide synthases

Polyketides, such as the antibiotic erythromycin, are a prominent class of natural products with diverse bioactivities. Current genome information of microbes has revealed vast untapped polyketides from nature. To rapidly discover these compounds, we developed a metabologenomics strategy that combines mass defect filtering with bioinformatic analysis. This approach was successfully applied to characterize novel polyketides from a well-studied *Streptomyces* strain, highlighting the potential for uncovering hidden metabolic diversity.

As featured in:



See Lihan Zhang *et al.*,  
*Chem. Sci.*, 2025, **16**, 1696.