Genome-Enabled Characterization of Alkaloid Natural Product Biosynthesis

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In my 15-minute short talk at ICOS 21, I will present on the general theme of alkaloid natural product biosynthesis. Recent work from my lab and my collaborators’ have revealed new genomes of actinomycetes and cyanobacteria that offer a wealth of biosynthetic information. My talk will focus on harnessing this information for construction of biomimetic pathways towards accessing the core skeletons of hapalindole alkaloids, nocardioazaine alkaloids and diketopiperazines in general.

References