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Chemical biology for the detection of pathogens and reactive oxygen species

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Abstract :

The synthesis of several families of biomolecules will be described. For example, the access to analogs of gougerotin, a peptidyl nucleoside with antifungal activity, and the preparation of highly cytotoxic hybrid molecules of Schweinfurthin E and OSW-1 will be detailed. An efficient synthetic access to tiacumicin B, an atypical glycosylated macrolide antibiotic, will also be discussed through the development of new synthetic strategies and methodologies.