Bioactive secondary metabolites serve as useful leads in the development of new pharmaceutical agents. However in many cases; these compounds are obtained in very small quantities from the natural sources. As a result their structural elucidations as well as detailed biological studies for clinical development are hampered. Therefore the preparation of these bioactive metabolites via total synthesis is an active area of research. Our group is actively engaged on the total synthesis of bioactive complex natural products and during the process we are trying to resolve some of the structural issues associated with the targeted natural products. In this presentation, our synthetic approaches to two biologically active natural products maltepolides C$^{3,4}$ and callyspongiodile$^{4,5}$ will be discussed.

References