



# Cicle de conferències entorn la celebració de l'any de la Química

# 2011

## Adventures in Heterocyclic Compound Synthesis

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**Prof. Joe Konopelski**

Department of Chemistry and  
Biochemistry  
University of California Santa Cruz

The synthesis of new heterocyclic systems plays an essential role in both natural product chemistry and medicinal chemistry. Our work has been concentrated on the synthesis of nitrogen-containing heterocycles, particularly those with biological significance. The talk will focus on two projects. The first part of the presentation will focus on a new route to enantiomerically pure  $\beta$ -lactams, the key structural type in the most widely prescribed antibiotics in the world. Our route is quite efficient and proceeds with high yield. The second part of my presentation will focus of the synthesis of two isomers of the marine natural product cyclocinamide A, which was originally reported to have solid tumor activity. While two other research groups have provided routes to the overall structure, neither of these approaches provided a compound identical to the natural product.

sala de Graus de la Facultat de Ciències, 12h