



*Cicle de conferències de química**

**Oxidation of Alkyl C-H bonds and of Water with
Mn and Ir Catalysts**

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Selective CH hydroxylation of alkyl CH bonds is possible using a molecular recognition catalyst based on manganese. The role of dynamics is stressed. A mechanistic explanation for a switch between desaturase and hydroxylase chemistry is suggested for some related catalysts. Water oxidation and CH hydroxylation is possible with a series of Cp*Ir catalysts. Unexpectedly, CH hydroxylation occurs with retention of configuration at carbon, probably as a result of the proposed Cp*Ir oxo intermediate giving oxene-like reactivity. A related heterogeneous material, the blue layer, anodically deposited on FTO glass can oxidize water with high efficiency.

Dimarts 25 de maig de 2010

12:00h

Sala de Graus, Facultat de Ciències i Biociències

**Aquesta conferència forma part de les activitats formatives programades pel seguiment del progrés del doctorand*