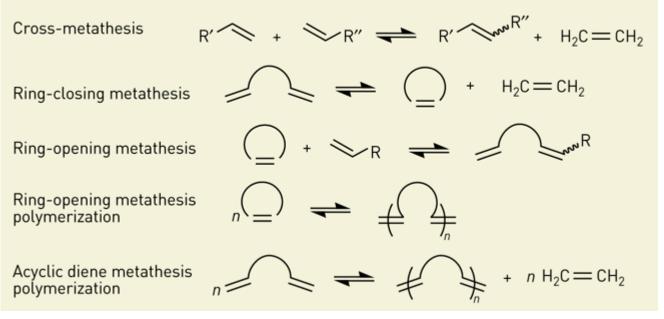
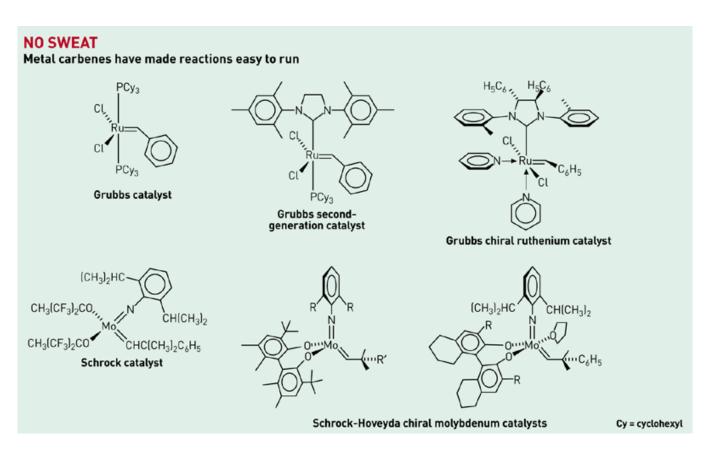
BASICS Reactions are reversible



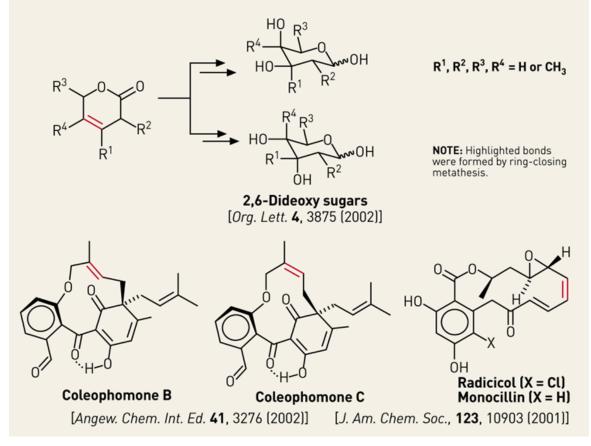
Different types of reactions involving olefin metathesis.

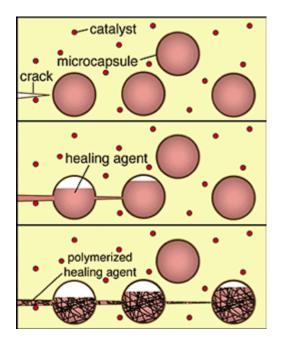


Some common catalysts used in olefin metathesis reactions.

RECENT FEATS

Ring-closing metathesis with ruthenium catalysts is key to the synthesis of complex compounds





To achieve "**autonomic healing**," the material incorporates a microencapsulated healing agent (dicyclopentadiene) and Grubbs' catalyst.

As cracks develop, they rupture the embedded microcapsules.

Polymerization of the healing agent is triggered by contact with the embedded catalyst.

Smart materials: self-healing composites for spacecraft.