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### Methods to access heterocycles; Applications to bioactive compounds

Complex bioactive heterocyclic compounds are a good source of inspiration to develop methods and one major challenge, in synthetic organic chemistry, is the design and execution of concise approaches to these molecules. Strategies that are using reactions that rapidly lead to the skeleton framework of natural and/or biologically active heterocycles are attractive. In the context of developing facile entries to biologically active heterocycles

possessing complex structures, we have explored their construction using catalytic reactions involving organometallics to induce coupling reactions, enzymatic reactions, enantioselective condensations and enantioselective rearrangements. These methods and their applications to the synthesis of biologically active complex natural and non-natural heterocycles will be presented.

### Biography

Janine Cossy has completed her PhD at the age of 26 years from the Champagne Ardenne University in Reims (France) and her Postdoctoral Studies from the University of Wisconsin (USA). She is the Director of Laboratoire de Chimie Organique at the ESPCI Paris, in Paris (France), a major institution of higher education (a French "Grande École d'ingénieurs"). She has published more than 500 papers in reputed journals and has been serving as an Organic Letters Associate Editor since 2005. In addition she is an editorial board member of several reputed journals.

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