



SOCIÉTÉ CHIMIQUE DE GENÈVE

# Homogeneous Ruthenium-Catalyzed Selective Hydrogenation Reactions in Sustainable and Cost-Efficient Perfumery Ingredients Industrial Synthesis



**Dr Philippe DUPAU**

*Dms-firmenich – DIAC Lecture 2025*

Geneva Chemical Society (SCG) in collaboration with the Division of Industrial & Applied Chemistry (DIAC) of the Swiss Chemical Society hosts the lecture of Dr Philippe DUPAU awarded DIAC Fellowship 2025 for his outstanding contributions in the discovery, development and industrial implementation of many innovative and robust catalytic methodologies for the sustainable and cost-efficient synthesis of iconic perfumery ingredients and his outstanding contributions in the field of industrial catalysis.

Over the past 2 to 3 decades, discovery, development and production of various ruthenium complexes led to successful industrial implementation of homogeneous hydrogenation towards perfumery ingredients industrial synthesis. Based on activity and selectivity achieved, such a catalytic transformation appeared as a true practical alternative to the use of  $\text{NaBH}_4$  and  $\text{LiAlH}_4$  in reduction of aldehydes, ketones and esters. In addition to cost efficiency improvements, replacement of such stoichiometric reagents also led to higher both safety and sustainability industrial processes performances.

Join us for the conference and enjoy networking with a convivial aperitif hold at the Science III lobby.

**Conference presented on:**

**MONDAY 29 SEPTEMBER 2025 at 17h30**

**University of Geneva – Science II building  
Auditoire A-100  
30 quai Ernest-Ansermet Genève**

*The conference is public.*

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