

5<sup>th</sup> International Conference on

# Organic and Inorganic Chemistry

July 12-13, 2018 | Paris, France



## Vidal Virginie

*Ecole Nationale Supérieure de Chimie de Paris- Chimie ParisTech, France*

### Recent advances in organic chemistry and asymmetric catalysis: Applications

Over the past few years, significant research has been directed toward the development of new methods for synthetic efficiency and atom economical processes. Among them, the potential of transition metal-catalyzed reactions has been steadily demonstrated, as they provide a direct and selective way toward the synthesis of highly valuable products. We focus on the development of catalytic methods for the synthesis of bio-relevant targets. More specifically, we have been interested in hydrogenation and transfer hydrogenation reactions, which provide important catalytic approaches to fine chemicals. There is no doubt that chiral ligands are at the heart of any enantioselective homogeneous process. In this context, our contribution to this field is the development of atropisomeric diphosphanes named SYNPHOS and DIFLUORPHOS with complementary stereoelectronic properties. Some applications in organic chemistry will be presented.

### Biography

Vidal Virginie obtained her Ph.D from Paris Sud University. She then pursued postdoctoral appointments in the University of Montreal (Canada). She is currently CNRS Research Director at Chimie ParisTech in Paris. Her research interests focus on transition-metal catalysis, metallo-organocatalysis and organic synthesis. The synthesis of bio-relevant targets is also a focus in her group. She was Chair of the Division of Organic Chemistry of the French Chemical Society (2009- 2012). She has published more than 150 papers in reputed journals, chapters and patents and has been serving as a board member of EuCheMS Division of Organic Chemistry since 2010.

[virginie.vidal@chimie-paristech.fr](mailto:virginie.vidal@chimie-paristech.fr)

Notes: