

CBC SEMINAR ANNOUNCEMENT

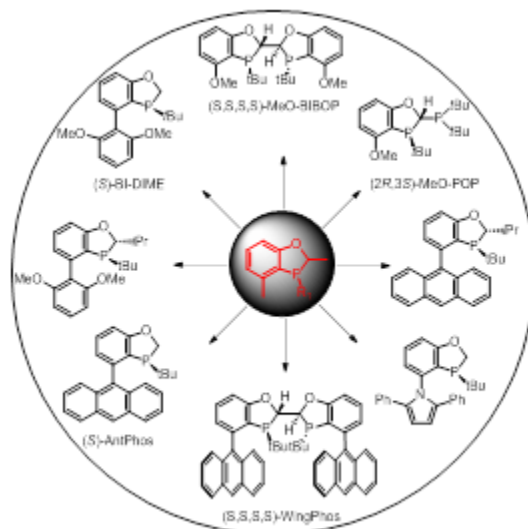


Professor Tang Wenjun

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Phosphorus Ligands-Enabled Synthesis & Catalysis

The talk will be focused on the design and development of a series of practical and efficient P-chiral phosphorus ligands on the basis of a 2,3-dihydrobenzo[d][1,3]oxaphosphole motif. Their distinct structural features offers unique reactivities and selectivities in a number of transition-metal-catalyzed reactions, providing efficient syntheses to many challenging structures such as chiral amines, chiral biaryls, chiral diaryl alkyl tertiary alcohols, chiral tertiary boronic esters, and chiral all-carbon quaternary stereocenters. These synthetic methods have resulted in green synthesis of several chiral natural products and drugs.



References

a) Huang, L.; Zhu, J.; Jiao, G.; Wang, Z.; Yu, X.; Deng, W.-P.;* Tang, W.* *Angew. Chem., Int. Ed.* 2016, 55, 4527. b) Hu, N.; Li, K.; Wang, Z.; Tang, W. *Angew. Chem., Int. Ed.* 2016, 55, 5044. c) Hu, N.; Zhao, G.; Zhang, Y.; Liu, X.; Li, G.; Tang, W.* *J. Am. Chem. Soc.* 2015, 137, 6746. d) Du, K.; Guo, P.; Chen, Y.; Cao, Z.; Tang, W.* *Angew. Chem., Int. Ed.* 2015, 54, 3033. e) Fu, W.; Nie, M.; Wang, A.; Tang, W.* *Angew. Chem., Int. Ed.* 2015, 54, 2520. f) Li, C.; Chen, T.; Xiao, G.; Li, B.; Tang, W.* *Angew. Chem., Int. Ed.* 2015, 54, 3792

Date: 1st March 2017 (Wednesday)
Time: 2:00pm – 3:00pm
Venue: SPMS MAS Executive Classroom 1
Host: Asst Professor Steve Zhou