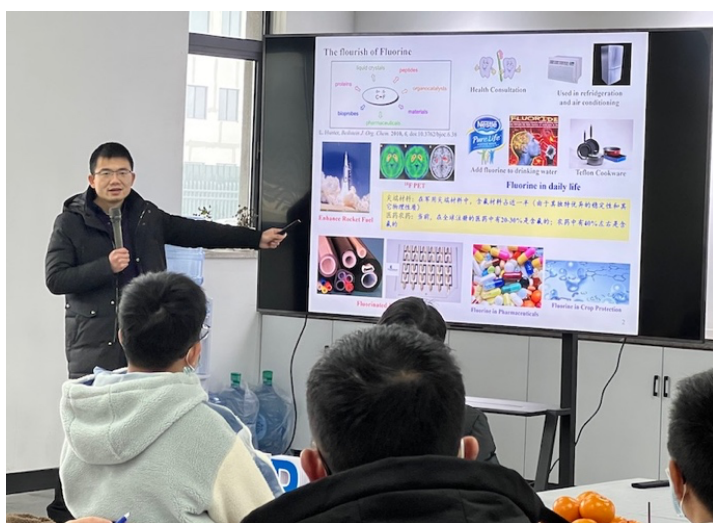


Carboxylation and Fluorination Reactions Lecture

Jan 19, 2022



On January 19, 2022, Dr. Zhang Cheng Pan, professor and doctoral supervisor at Wuhan University of Technology, presented an informative training to the scientists at Hiray Pharma solutions at our monthly "Hiray Talk" event. Professor Zhang's topic was "Carboxylation and Fluorination Reactions with Trifluoromethyl Trifluoromethanesulfonate ($\text{CF}_3\text{SO}_2\text{OCF}_3$) Reagent".

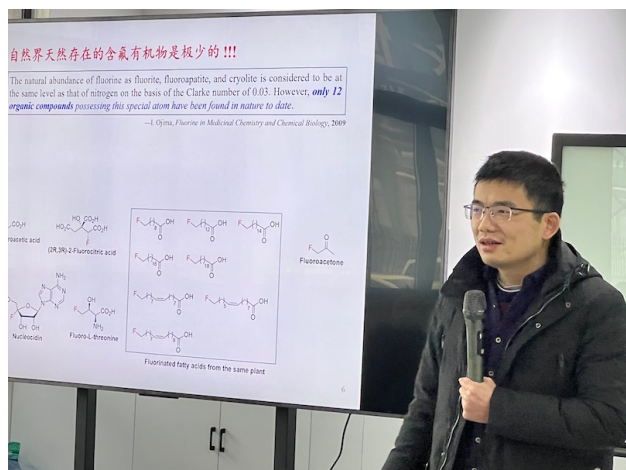
In his teaching, Professor Zhang introduced the process and application of $\text{CF}_3\text{SO}_2\text{OCF}_3$ carboxylation and fluorination reactions through face-to-face lectures and interactive communication. The energy in the room was palpable as participants asked questions and actively engaged in the discussions. It was clear to all that these lectures would not only improve their technical knowledge of fluorine chemistry, but also give them tools for developing valuable medicines for the healthcare industry.

Through our partnership with Dr. Zhang, we at Hiray Pharma Solutions are expanding our ability to develop fluorination reactions for our clients. At



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present, 40% of innovative drugs contain fluorine, so chemists like Professor Zhang Cheng Pan are providing strong theoretical and practical guidance for process development at Hiray.



In 2011, Dr. Zhang received his Ph.D. from the Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, and engaged in post-doctoral research at the University of Hawaii and Texas A&M University. In 2014, he joined Wuhan University of Technology. He specialized in fluorine chemistry, organic chemistry, and metal-organic chemistry research. He has published more than 60 high-level SCI papers, which have been cited more than 1,900 times. He presided over several

projects of the National Natural Science Foundation of China and the Natural Science Foundation of Hubei Province.

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