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### Progress of R&D of Chinese materia medica to keep up with advances in technology

Traditional Chinese medicine (TCM) has over 3000 years of history to treat diseases in China and has played a pivotal role in the Chinese health system. In the past 20 years or so, great progress has been achieved on the modernization of traditional Chinese medicine. Government launched a number of “heavy-weight” programs and allocated central budget for the development of TCM. Chemistry of Chinese herbal medicines was thoroughly investigated and over 3000 new chemical compounds were isolated and some of them have been in the process of new drug development. TCM pharmaceutical industry is on the rise and growing rapidly with respect to the yearly gross sale and modern facilities. In this lecture, TCM resources, related research institutions and education systems, recent development in Chinese Pharmacopoeia, TCM new drug registration regulations by CFDA, TCM-based drug discovery, government funding sectors, recent research progress achieved will be briefly overviewed, which may help the audience to understand where TCM stands in China. In addition, the current research on the quality standard construction of traditional Chinese medicines will also be introduced with some concrete examples. The future perspective of TCM modernization will be briefly projected.

### Biography

De-an Guo serves as Director of the State Engineering Laboratory for Traditional Chinese Medicine (TCM) Standardization Technology at the Shanghai Institute of Materia Medica of Chinese Academy of Sciences. His research has centered on TCM analysis, quality and metabolisms. He has published more than 480 papers to date and 320 papers in SCI journals with over 4600 citations. He acted as the editor-in-chief of the 2010 English edition of Chinese Pharmacopoeia. At present, he is Associate Editor, Editor or Editorial Board Member of 16 highly respected international scientific journals, including *Journal of Ethnopharmacology*, *Planta Medica* and *Phytomedicine*.

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