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Ying-Yu Cui has accomplished his doctoral degree at School of Life Sciences, Sun Yat-Sen University, Guangzhou, China in 2005. He is working as Associate Professor at the Key Laboratory of Arrhythmias, Ministry of Education (Tongji University), Institute of medical genetics, Department of Regenerative Medicine, Tongji University School of Medicine, Shanghai, China. He was a visiting scholar, in Lombardi Comprehensive Cancer Center, Georgetown University Medical Center, School of Medicine, Washington DC, USA.

Past five years, he received the award including the title of “Publons Peer Reviewer Awards”, “Excellence Award of Annual Teaching Innovation at 3rd XJTLU National University”, “the third prize for teaching achievement, Tongji University”. His research interests are Working Mechanisms of Natural Products in Cancer and Cardiology and University Teaching Theory and Pedagogy. He is currently serving as a member of Chinese Society for Cell Biology from 2007 till now.

Title: Research-Based Learning Remodels the Characters of Undergraduates for Creative and Innovative Personnel

Abstract: Purpose: To explore effective measures to train undergraduates into creative and innovative personnel; Procedures and Methods: Problem-oriented class teaching model infiltrated with critical thinking training (POCTM) in classroom and research-based learning (RBL) in lab have been performed for over ten years to remodel the characteristics of creative and innovative talents; Results: An empirical study of clinical medical students in the past 10 years inspire us to compose a novel and effective training flow to empower undergraduates with the abilities of double talents-Innovation and Creation; Conclusions: ATTBP is an effective RBL model to train innovative and creative talents, which may be of referential value to higher education of other developing countries.