

Rationally designing antibody drug conjugates for targeted treatment of pancreatic cancer

By
Dr Peng Guo

Institute of Basic Medicine and Cancer
Chinese Academy of Sciences

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Abstract

Outcomes for pancreatic cancer (PC) patients remain strikingly poor with a 5-year survival of less than 8% due to the lack of effective treatment modalities. To address this challenge, we developed a novel precision medicine approach for PC treatment, which is composed of a rationally designed tumor-targeting ICAM1 antibody-drug conjugate (ADC) with optimized chemical linker and cytotoxic payload, complemented with a magnetic resonance imaging (MRI)-based molecular imaging approach to noninvasively evaluate the efficiency of ADC therapy. This study provides strong supports for the development of a promising ADC to address the critical need in the PC patient care

Biography



Dr. Peng Guo is a principle investigator in Institute of Basic Medicine and Cancer, Chinese Academy of Sciences (IBMC). He received his PhD in analytical chemistry from University of Florida in 2011 and conducted his postdoc research at Harvard University from 2011 to 2016. Dr. Guo worked as an instructor in Boston Children's Hospital and Harvard Medical School before he joined IBMC, and his research focus on identifying new cancer drug targets and developing innovative targeted therapeutics including antibody-drug conjugates and exosome-based theranostics. To date, Dr. Guo has published over 30 papers including PNAS, Sciences Advances, Nature Communications, and Trends in Pharmacological Sciences.

You can join by clicking the above link 10 minutes prior to the seminar. Please download ZOOM and complete the installation beforehand (<https://zoom.us/download>), and set up your camera and microphone if you wish to participate in the Q&A session after the presentation.

ALL ARE WELCOME

Enquiries: Dr. Xi Yao (3442-4829, xi.yao@cityu.edu.hk)
Ms Irene Wong (3442-4707, irene.wong@cityu.edu.hk)