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SCIENTIFIC ACHIEVEMENTS:

Grasped research experience including diagnosis most kind of cardiovascular disease by transthoracic and transesophagus echocardiography, three-dimensional echocardiography, contrast echocardiography, two-dimensional and three-dimensional speckle tracking imaging as well as the stress echocardiography. At present, the research direction is detection of subclinical myocardial injury on patients with lymphoma received anthracycline treatment using novel echocardiographic techniques.

During the past 5 years, have 28 papers published as the corresponding author or first author, including 11 SCI thesis (total impact factor is 30.467) . Participated editing 4 academic books. Eleven abstracts has be accepted by academic conferences as the American Society of Echocardiography, European Society of Cardiology and so on.

PAPERS (during the past 5 years)

(As the corresponding author) :

1. Shi J, Guo Y, Cheng L, Song F, Shu X. Early change in left atrial function in patients treated with anthracyclines assessed by real-time three-dimensional echocardiography. Sci Rep, 2016 May 5;6:25512. doi: 10.1038/srep25512.
2. Lu H, Pan W, Wan Q, Cheng L, Shu X, Pan C, Qian J, Ge J. Trends in the prevalence of heart diseases over a ten-year period from single-center observations based on a large echocardiographic database. Journal of Zhejiang University SCIENCE B , 2016 , 17 (1) : 54-59.
3. Chen Y, Zhang Z, Cheng L, Fan L, Wang C, Shu X. The early variation of left ventricular strain after aortic valve replacement by three-dimensional echocardiography. Plos One, 2015, 2015 , 10(10):e0140469.



4. Chen Y, Cheng L, Yao H, Chen H, Wang Y, Zhao W, Pan C, Shu X. The myocardial ischemia evaluated by real-time contrast echocardiography may predict the response to cardiac resynchronization therapy: a large animal study. *PLoS One* , 2014 , 9(12):e113992.
5. Ma L, Ma Q, Li X, Cheng L, Li K, Li S. Transcriptomic analysis of differentially expressed genes in the Ras1CA-overexpressed and wildtype posterior silk glands. *BMC Genomics*, 2014,15(1):182-193.
6. Pan W, Zhou D, Cheng L, Shu X, Ge J. Candidates for transcatheter aortic valve implantation may be fewer in China. *Int J Cardiol* , 2013 , 168(5):e133-e134.
7. Wang B, Chen H, Shu X, Hong T, Lai H, Wang C, Cheng L. Emerging role of echocardiographic strain/strain rate imaging and twist in systolic function evaluation and operative procedure in patients with aortic stenosis. *Interact Cardiovasc Thorac Surg*. 2013 , 17(2):384-391.

(As the first author) :

1. Kang Y, Cheng L, Cui J, Li L, Qin S, Su Y, Mao J, Gong X, Chen H, Pan C, Shen X, He B, Shu X. A new score system for predicting response to cardiac resynchronization therapy. *Cardiology Journal*, 2015,22(2):179-187.
2. Cheng L, Zhao W, Chen Y, Pan W, Shu X. The Detection of Subtle Microvascular Injury Using a Simple Echocardiographic Coronary Flow Reserve Index by Dipyridamole Stress Real-time Myocardial Contrast Echocardiography on Swine Models. *Exp Clin Cardiol*, 2014, 20(6):145-155.
3. Cheng L, Chen Y, Pan W, Lu S, Chen Z, Shu X. Effect of microembolization on left ventricular systolic wall motion and synchrony on swine models using dipyridamole stress two-dimensional speckle tracking imaging. *J Med Ultrasound*, 2013,21(4):189-197.
4. Kang Y, Cheng L, Li L, Chen H, Sun M, Wei Z, Pan C, Shu X. Early detection of anthracycline-induced cardiotoxicity using two-dimensional speckle tracking echocardiography. *Cardiology Journal*, 2013,20(6):592-599.