



# 浙江大学医学院学术报告

## VICKZ RNA binding proteins in tumor progression, metastasis, and dilated cardio hypertrophy



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时间：2018年10月23日（周二）下午2:00-3:00

地点：医学院综合楼205会议室

主持人：周以佺 教授

**Abstract:** VICKZ proteins are a family of highly conserved RNA binding proteins that have been implicated in many cellular processes. I will discuss our work on two of these proteins, VICKZ1 and VICKZ2. VICKZ1 is an oncofetal protein and we have studied its role in lung adenocarcinomas. We find that VICKZ1 synergizes with K-ras to promote tumor progression and metastasis, both in tissue culture cells and in two different mouse models. At the moment, we have 2 lead molecules that bind VICKZ1, specifically disrupt binding, and have some biological activity.

VICKZ2 is expressed not only during embryogenesis but also in many adult tissues. Using a conditional transgenic mouse we have generated, overexpression of the closely related VICKZ1 in the heart causes DCH and early sudden death in mice. These results suggest that expression of VICKZ proteins in the heart following stress may be a physiological, adaptive response that can lead to severe consequences if not properly regulated.

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