



Centre for
Heart Lung Innovation
UBC and St. Paul's Hospital

Centre for Heart Lung Innovation Research in Progress (R.I.P.)



Role of RAR γ and its genetic variants S427L in transcriptional response to doxorubicin-induced cardiotoxicity

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Monday, June 7th, 2021
9:00 – 10:00 a.m.

Zoom Video Conference
(Meeting ID: 693 1997 7044; Passcode: 030679)

“Doxorubicin is a commonly used chemotherapy drug that showed effective outcomes in treating many adult tumors and more than half of all childhood cancers, but its clinical usefulness is limited by doxorubicin-induced cardiotoxicity (DIC). A genetic variant of retinoic acid receptor gamma (RAR γ , S427L) has been identified associated with DIC and is a potential genetic screening site for future personalized medicine.”

To better compare the functional impacts of this variant, we used genome-edited iPSC-CMs as isogenic study model. We performed protein structure modeling, luciferase reporter assay and RNA sequencing to investigate the role of RAR γ -S427L in transcriptional response to DIC.”

This event is a Self-Approved Group Learning Activity as defined by the Maintenance Certification Program of the Royal College of Physicians and Surgeons of Canada



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