Proposed Research

• Super-resolution fluorescent imaging of ryanodine receptors (RyR) and microtubule structures in mouse cardiac myocytes with altered expression of protein junctophilin-II

• Compare relative positions of labeled structures to wild type samples
Progress This Week

- High resolution imaging of TAC control mouse cells for ryanodine receptors (RyR) and junctophilin-II (JPH)

(Left) RyR in green Alexa680, JPH in red Alexa750; (Right) RyR in red, JPH in green; Switching the secondary antibodies for the two structures seemed to show better results.
Progress This Week

• Comparison of TAC1 and TAC2 strains of cells showed no significant differences

(left) TAC 1; (right) TAC 2
Future Plans

• Investigate effectiveness of antibody cocktail in staining tubule system in cells

  – Sample 1: Na/Ca exchange only
  – Sample 2: Caveolin 3 antibody only
  – Sample 3: Both N/C ex and Cav 3
Cultural Aspect

Political protests against the New Zealand government, and street performers downtown
Cultural Aspect

My first bottle of L&P, a famous drink of New Zealand
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