



## Carlos Vera

Postdoctoral Scholar, Chemical Engineering

### Bio

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#### BIO

Carlos obtained his B.S. in Industrial Biotechnology from the University of Puerto Rico at Mayaguez. He received his PhD from the University of Colorado at Boulder working with Dr. Leslie Leinwand on myosin myopathies. His dissertation focused on analyzing the effects on myosin's cross-bridge cycle from mutations associated to Hypertrophic (HCM) and Dilated (DCM) cardiomyopathies. For his postdoc he will focus on disease mechanisms that can influence severity.

#### STANFORD ADVISORS

- Alexander Dunn, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Mechanisms of mechanosensing by MLP and  $\alpha$ -actinin-2 in cardiac hypertrophy**  
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- **Generation of two induced pluripotent stem cell lines from patients suffering from pulmonary hypertension.** *Stem cell research*  
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- **Disparities in cardio-oncology: Implication of angiogenesis, inflammation, and chemotherapy.** *Life sciences*  
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- **Generation of two iPSC lines from hypertrophic cardiomyopathy patients carrying MYBPC3 and PRKAG2 variants.** *Stem cell research*  
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- **Treating Duchenne Muscular Dystrophy: The Promise of Stem Cells, Artificial Intelligence, and Multi-Omics.** *Frontiers in cardiovascular medicine*  
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2022; 9: 851491
- **Identification of sequence changes in myosin II that adjust muscle contraction velocity** *PLOS BIOLOGY*  
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- **The ATPase cycle of human muscle myosin II isoforms: Adaptation of a single mechanochemical cycle for different physiological roles** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
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