



Carlos Vera

Postdoctoral Scholar, Chemical Engineering

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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

PUBLICATIONS

- **Mechanisms of mechanosensing by MLP and α -actinin-2 in cardiac hypertrophy**
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- **Disparities in cardio-oncology: Implication of angiogenesis, inflammation, and chemotherapy.** *Life sciences*
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- **Modulating fast skeletal muscle contraction protects skeletal muscle in animal models of Duchenne muscular dystrophy** *JOURNAL OF CLINICAL INVESTIGATION*
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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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- **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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