

PETER B. DYKSTRA – CURRICULUM VITAE (OCTOBER 20, 2016)

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EDUCATION

Stanford University, Stanford, CA

Pursuing a Ph.D. in Bioengineering (GPA 3.8) 2020 (expected)

University of California at San Diego, La Jolla, CA

B.S. in Bioengineering: Biotechnology *cum laude* (GPA 3.7) 2015

AWARDS AND HONORS

Graduate Research Fellowship, *National Science Foundation* 2016

David K. Jordan Award, *Warren College, UC San Diego* 2015

Amgen Scholar, *Amgen Foundation/UC San Diego* 2014

Gayle G. Arnold Award for Best Scientific Paper, *American Academy for Cerebral Palsy and Dev. Medicine* 2013

Provost Honors (Dean's List), *Warren College, UC San Diego* 2012 – 2015

PUBLICATIONS

Journal of Biomechanics, In Preparation

Stretch-induced satellite cell deformation in spastic muscle 2016

PB Dykstra, S Dayanidhi, RL Lieber

Muscle and Nerve

Role of satellite cells in stretch-induced sarcomere addition 2016

MC Kinney, S Dayanidhi, PB Dykstra, JJ McCarthy, CA Peterson, RL Lieber

Journal of Orthopaedic Research

Reduced satellite cell number *in situ* in contractures from children with cerebral palsy 2015

S Dayanidhi, PB Dykstra, V Lyubasyuk, BR McKay, HG Chambers, RL Lieber

ABSTRACTS

UC San Diego Bioengineering Day

A new device to facilitate the study of cell migration through biomaterials 2015

A Cheung*, A Courelli*, PB Dykstra*, M Malek*, J Wang, KL Christman

San Diego, CA

**Equal First Authors (Senior Design Group Project)*

Orthopaedic Research Society

Reduced Muscle Stem Cells In Situ In Contractures From Children With Cerebral Palsy 2015

S Dayanidhi, PB Dykstra, V Lyubasyuk, BR McKay, HG Chambers, RL Lieber

Las Vegas, NV

Orthopaedic Research Society

Novel Transgenic Physiological Model of Skeletal Muscle Contracture 2015

MC Kinney, S Dayanidhi, PB Dykstra, JJ McCarthy, CA Peterson, RL Lieber

Las Vegas, NV

Federation of American Societies for Experimental Biology (FASEB)

Does reduced satellite cell number lead to contracture development and impaired sarcomerogenesis? 2014

S Dayanidhi, MC Kinney, PB Dykstra, HG Chambers, RL Lieber

Steamboat Springs, CO

American Academy for Cerebral Palsy and Developmental Medicine (AAPDM)

Reduced satellite cell number *in situ* in contractures from children with cerebral palsy 2013

S Dayanidhi, P Dykstra, V Lyubasyuk, BR McKay, HG Chambers, RL Lieber

Milwaukee, WI

**Won Gayle G. Arnold Award for the Best Scientific Paper*

PRESENTATIONS

Mechanical Engineering 287 Final Project, Poster Presentation
Mechanical Properties of Porcine Intestine 2015
 Stanford, CA

UCSD Bioengineering Day, Poster Presentation
A new device to facilitate the study of cell migration through biomaterials 2015
 San Diego, CA

UCSD Summer Research Conference (*Amgen Scholar Program*), Oral Presentation
Stretch-induced satellite cell deformation in spastic muscles 2014
 San Diego, CA

Alternative Muscle Club, Poster Presentation
Reduced skeletal muscle myofiber growth rate in children with cerebral palsy 2014
 San Diego, CA

UCSD Undergraduate Research Conference, Oral Presentation
Reduced number of satellite cells in situ in children with cerebral palsy 2013
 San Diego, CA

WORK/RESEARCH EXPERIENCE

Stanford, Department of Bioengineering (PI: Christina D. Smolke, PhD – csmolke@stanford.edu)
 450 Serra Mall, Stanford, CA 94305, (650) 725-2396
Graduate Researcher 2015

UC San Diego, Muscle Physiology Laboratory (PI: Richard L. Lieber, PhD – rlieber@ric.org)
 9500 Gilman Dr., La Jolla, CA 92093, (858) 822-1202
Undergraduate Researcher 2013 – 2015

VOLUNTEER EXPERIENCE

Provost's Student Advisory Council, Warren College, UCSD
Student Representative 2011 – 2015
 Convened with the Provost of Warren College to discuss student issues including the creation of an undergraduate interdisciplinary research journal
 Reference: Provost Steven Adler – sadler@ucsd.edu

The Equilibrium, Warren College, UCSD
Co-founder and Chief Editor 2014 – 2015
 Co-founded an undergraduate interdisciplinary research journal for Warren College students
 Reference: Provost Steven Adler – sadler@ucsd.edu

Student Travel Fund Committee, Jacobs School of Engineering, UCSD
Student Representative 2014 – 2015
 Met with other student leaders to review and allocate monetary funds for students to travel and attend engineering-related conferences
 Reference: Melinda Beyerle – mbeyerle@ucsd.edu

First-Year Experience Course, Warren College, UCSD
Discussion Leader 2014
 Led weekly discussion section with 20 students. Duties included developing lesson plans, assessing student performance, participating in weekly meeting with faculty lecturer, holding weekly office hours
 Reference: Grant Goodall, PhD – ggoodall@ucsd.edu