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CBC Workshop on Cardiac Mechanics with UCSD - October 30, 2012

CBC and University of California in San Diego arranged a one-day workshop as a pre-meeting to the Cardiac Physiome Workshop in San Diego.

Total number of participants: 30
Total number of guests outside of CBC: 18
Number of different nationalities represented: 6
Total number of speakers: 12
Total number of talks: 12

CBC/UCSD Pre-Physiome Workshop

Venue: The Rousseau Center (1st floor right off the lobby) Catamaran Resort Hotel San Diego, CA
Date: 30th October 2012 (9:00am)
Organizers: Dr. Mary M. Maleckar (Simula), Dr. Andrew D. McCulloch (UCSD)
Organizing committee: (Simula): Dr. Johan Hake, Dr. Samuel T. Wall.
(UCSD): Dr. Andrew G. Edwards, Dr. Pan Li

Morning Session: Subcellular/Cellular Modeling

09:00 - 09:05: Welcome and Introduction (Dr Andrew D. McCulloch (UCSD), Dr Mary M. Malecker (Simula))
09:05 - 09:20: Talk 1: Tapaswini Das (UCSD) - “Experimental Directions and Limitations in Creating Realistic Subcellular Geometries”
09:20 - 09:30: Discussion
09:30 - 09:45: Talk 2: Dr. Johan Hake (Simula) - “The effect of splitting calcium release units into super clusters and Gotran, a General ODE TRANslater”
09:45 - 09:55: Discussion
09:55 - 10:10: Talk 3: Dr. Peter Kenenes-Huskey (UCSD) - “Multi-tubule Modeling”
10:10 - 10:20: Discussion
10:20 - 10:40: Coffee break
10:40 - 10:55: Talk 4: Dr. Jussi Koivumäki (Simula) - “Calcium buffering in human atrial myocytes”
10:55 - 11:05: Discussion
11:05 - 11:20: Talk 5: Dr. Glenn T. Lines (Simula) - “Modeling an activation drug for the IKv4.3 channel in canine ventricular myocytes”
11:20 - 11:30: Discussion
11:30 - 11:40: Split talk 1: Dr. Andrew G. Edwards (UCSD) - “Models for assessing mechanisms of drug efficacy in CPVT”
11:40 - 11:45: Discussion
11:45 - 11:55: Split talk 2: Britton Boras (UCSD) - “Software interface for modeling molecular signal transduction in realistic geometries”
11:55 - 12:00: Discussion
12:00 - 13:15: Lunch

Afternoon Session: Electromechanical Modeling

13:15 - 13:30: Talk 1: Bernardo Lino de Oliveira (Simula) - “The effect of multiple mechanoelectrical feedback mechanisms on conduction velocity”
13:30 - 13:40: Discussion
13:40 - 13:55: Talk 2: Chris Villongco (UCSD) - “Estimating ventricular activation in patient-specific models from electroanatomic measurements”
13:55 - 14:05: Discussion
14:05 - 14:15: Split talk 1: Dr Pan Li (UCSD; Simula) - “Multiscale modeling of the cardiac Purkinje-ventricular system”
14:15 - 14:20: Discussion
14:20 - 14:30: Split talk 2: Emily Pfeiffer (UCSD) - “Experimental constraints for geometrically realistic models of electromechanical feedback”
14:30 - 14:35: Discussion
14:35 - 15:00: Coffee break
15:00 - 15:15: Talk 3: Dr. Joakim Sundnes (Simula) - “Uncertainty analysis of ventricular mechanics using the probabilistic Collocation Method”
15:15 - 15:25: Discussion
15:25 - 15:40: Talk 4: Dr. Roy Kerckhoffs, Dr. Adarsh Krishnamurthy (UCSD) - “Modeling the molecular basis of cardiac growth and remodeling”
15:40 - 15:50: Discussion
15:50 - 16:05: Talk 5: Dr. Samuel T. Wall (Simula) - “MRI versus ultrasound as an imaging modality for patient specific electromechanical modeling”
16:05 - 16:15: Discussion
16:15 - 17:00: Wrap-up: Dr Andrew D. McCulloch (UCSD), Dr Mary M. Malecker (Simula)

What	
When	Oct 30, 2012 from 09:00 AM to 05:00 PM
Where	San Diego, CA, at the Catamaran Hotel
Contact Name	Molly Maleckar
	Adarsh Krishnamurthy Andrew G. Edwards Andrew McCulloch Anushka Michailova Aslak Tveito Bernardo Lino de Olivera Britton W. Boras

Attendees	Chris Villongco Emily Pfeiffer Glenn Terje Lines Gunnar (IBT) Seemann Jared Tangney Jeff Omens Joakim Sundnes Johan Hake Jussi Koivumäki Kevin Vincent Masahiko HOSHIJIMA Mathias (IBT) Wilhelms Matt Gonzales Molly Maleckar Namit Gaur Pan Li Peter Kenenes-Huskey Roy Kerckhoffs Samuel Wall Siri Kallhovd Sjur Gjerald Tapi Das William Louch
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