

Symposium Mechanobiology

10. November 2011 from 2 pm
Hotel Novotel Aachen City, Petersstraße 66

Preliminary Agenda

14:00	Welcome	Stefan Uhlig, Uwe Schnakenberg (Aachen)
14:10 – 14:45	Mechanical paradigms for cardiac differentiation and tissue engineering	Malte Tiburcy (Göttingen)
14:45 – 15:20	Modeling and simulation of atherosclerotic arteries	Daniel Balzani (Duisburg-Essen)
15:20 – 15:55	How cells exploit the nanomechanics of proteins	Viola Vogel (Zürich)
15:55 – 16:30	Simulating the biomechanics of skeletal muscle	Markus Böl (Braunschweig)
16:30 – 17:00	Coffee break	
17:00 – 17:35	How mechanical forces guide cellular adhesion and migration	Rudolf Merkel (Jülich)
17:35 – 18:10	Biomechanics of the lung: Measurement and simulation	Wolfgang Wall (München)
18:10 – 18:45	Imitating the cricket cercal system: the beauty of the beast with a twist of the engineer	Gijs Krijnen (Twente)
18:45 – 19:20	Mechanobiology of bone tissue and bone cells	Peter Augat (Ulm)
19:20 – 19:30	Final discussion	
from 19:30	Dinner	