NIMBioS Investigative Workshop:

Modeling Renal Hemodynamics

Monday, August 1		
8:15–8:45am	Breakfast	
8:45–9:15am	Welcome by NIMBioS and organizers	
9:15–9:30am	Brief introduction by participants	
9:30–10:10am	Lecture by Will Cupples (Simon Fraser University)	
	Distributed autoregulation of renal blood flow	
10:10-10:40am	Coffee break	
10:40–11:20am	Lecture by Scott Thomson (University of California at San Diego Medical Center)	
	Is there chronic TGF and does it matter?	
11:25-12:05pm	Lecture by Rodger Loutzenhiser (University of Calgary)	
	Studies on the renal myogenic response and the determinants of its	
	kinetic features	
12:05–1:40pm	Lunch	
1:40–2:20pm	Lecture by Anil Bidani (Loyola University Medical Center)	
	Renal autoregulation and hypertensive injury	
2:20–3:30pm	Breakout discussion groups	
	1. Normal renal physiology (leader: Darwin Bell, Medical University of	
	South Carolina)	
	2. Renal pathophysiology (leader: Karen Griffin, Loyola University	
	Medical Center)	
3:30–4:00pm	Coffee break	
4:00-5:00pm	Reports of discussion groups (by Bell and Griffin) and round-table	
	discussion (Moderator: Harold Layton, Duke University)	
5:00–7:30pm	Dinner and poster session	

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Tuesday, August 2	
8:15–9:00am	Breakfast
9:00–9:40pm	Lecture by Anita Layton (Duke University)
	Modeling the myogenic response of the afferent arteriole
9:45–10:25am	Lecture by Harold Layton (Duke University)
	Nephron coupling: insight from modeling and physiological implications
10:25–11:00am	Coffee break
11:00–11:40am	Lecture by Niels-Henrik Holstein Rathlou (University of Copenhagen)
	Synchronization phenomena in the renal microcirculation
11:45–12:25am	Lecture by Donald Marsh (Brown University)
	Nephron dynamics on the renal vascular network
12:25–2:00pm	
2:00–3:10pm	Breakout discussion groups
	1. Modeling normal renal physiology (leader: William Arendshorst,
	University of North Carolina at Chapel Hill)
	2. Renal pathophysiology (leader: Leon Moore, SUNY Stony Brook)
3:10–3:45pm	Coffee break
3:45-4:45pm	Reports of discussion groups (by Arendshorst and Moore) and round-
	table discussion (Moderator: Randall Thomas, Université Paris-Sud)

Wednesday, August 2		
8:15–9:00am	Breakfast	
9:00–9:10am	Opening remarks	
9:10–10:10am	Breakout groups to write summary reports (leaders Tim Secomb,	
	University of Arizona, and Aurélie Edwards, Tufts University)	
10:10-10:40am	Coffee break	
10:40-11:10am	Report on modeling normal renal physiology (Secomb)	
11:10-11:40am	Report on modeling renal pathophysiology (Edwards)	
11:40am	Closing remarks	
Afterwards	Box lunch and Bye!	