Renal Physiology Core at UCSD is offering “In Vivo Analysis of Kidney Function in Rodents” supported by the NIH UAB-UCSD O’Brien Center for Acute Kidney Injury Research (P30DK079337)

Are you interested in….

- Including a kidney physiology aspect in your research proposal
- Performing integrative research (e.g. hepato-renal, cardio-renal, intestinal-renal, pulmonary-renal)
- Testing a new compound in the kidney
- Learning to study kidney function

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Discovery and Service

- Studying single nephron function by micropuncture: Mapping of the tubules on the kidney surface by injecting small amounts of blue dye into Bowman’s space and following the dye along the tubular system
- Whole kidney function (glomerular filtration rate, renal blood flow, autoregulatory dynamics, blood pressure, renal pharmacokinetics & pharmacodynamics)
- Kidney oxygen consumption at whole kidney and cellular level
- Glomerular filtration rate (FITC-sinistrin plasma elimination) & blood pressure (automated tail-cuff) in awake rodents
- Models of kidney injury (diabetes, ischemia-reperfusion, cecal ligation and puncture, hemi and subtotal nephrectomy)

Training and Education

- Annual hands-on four and ½ day workshop on kidney physiology and injury models (next: April 2018) (please see detailed workshop flyer at the UAB-UCSD O’Brien Center website: www.obrienaki.org)