



# 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

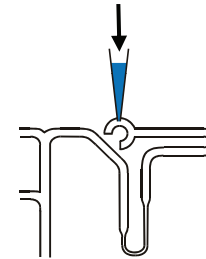
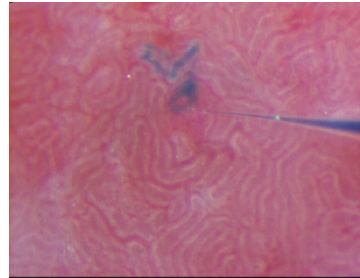
### Contact Information:

**Renal Physiology Core Laboratory**  
**Volker Vallon, MD, Director**  
[vvallon@ucsd.edu](mailto:vvallon@ucsd.edu)

### **Other Faculty**

**Prabhleen Singh, MD**, [p1singh@ucsd.edu](mailto:p1singh@ucsd.edu)  
**Scott Thomson, MD**, [sthomson@ucsd.edu](mailto:sthomson@ucsd.edu)

### 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 transport, 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](http://www.obrienaki.org))