



THE UNIVERSITY OF ARIZONA
COLLEGE OF MEDICINE TUCSON

Physiology

Seminars in Translational & Advanced Research (STAR)

Friday, August 28
Arizona Health Sciences Center
Room 8403
11:00am - 12:00pm

<https://arizona.zoom.us/j/85062222452>



Louise Evans, PhD

*Associate Professor, University of
Minnesota*

Host: Maya Kaelberer

"Renal Regulation of Salt Intake - The Kidneys as Interoceptive Organs"

The goal of the Evans lab is to characterize the regulation of sodium and water balance, with a particular focus on the pathological effects of a high-salt diet.

Since establishing her independent research program at the University of Minnesota in 2020, Dr. Evans has focused on understanding the mechanisms regulating salt intake and the contribution of the renal nervous system to sodium balance. Her research has incorporated multidisciplinary approaches developed throughout her training, including classical renal physiology techniques, molecular biological approaches, chronic renal physiology techniques, and integrative studies of salt-sensitive hypertension. Her work has examined sodium and water homeostasis in mice lacking 11 β -HSD2, the role of 11 β -HSD2 in the aldosterone-sensitive distal nephron and nucleus tractus solitarius, and the pathological effects of salt-sensitive hypertension in Dahl salt-sensitive rats. In 2024, her laboratory demonstrated the role of afferent renal nerves in the regulation of salt intake, a finding published in *Kidney International*.