

## Distinguished Lecture Series in Physiology

### Theodore J. Price, Ph.D.

Ashbel Smith Professor  
School of Behavior and Brain Sciences  
University of Texas at Dallas

## “Molecular Signatures of Human Nociceptors”

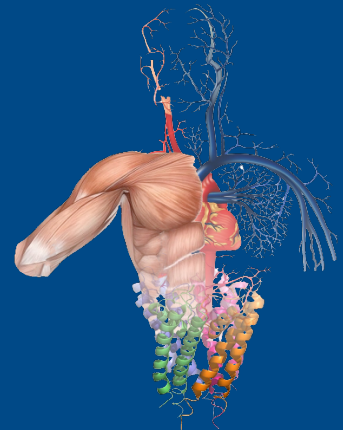
Dr. Price will discuss his lab's work on understanding the molecular makeup of human nociceptors using dorsal root ganglion (DRG) tissue recovered from rare surgeries of organ donors. He will begin by briefly reviewing published and unpublished work demonstrating unique features of human nociceptors based on spatial and single nucleus sequencing. He will then discuss how DRG transcriptomes appear to change in different painful disease states including neuropathic pain caused by cancer, chronic neck pain caused by arthritis of the cervical spine, and diabetic neuropathic pain. Each of these chronic painful diseases have unique transcriptomic signatures, and some of them also involve major sex differences in underlying mechanisms. He will close with how this data can be used to gain insight into new mechanistic targets for treating different forms of chronic pain.

Thursday, March 7, 2024  
GBSF and Zoom  
12 p.m.

March  
7



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