

University of Houston System Board of Regents Meeting

May 21, 2026

Faculty Presentation

Dr. Colin Haile

Professor

Psychology Department

Dr. Colin Haile is a research associate professor of psychology at University of Houston and a founding member of the university's Drug Discovery Institute. His work centers on substance use disorders, addiction science, and the development of innovative treatments aimed at addressing the ongoing opioid epidemic. Dr. Haile is nationally recognized for his pioneering research on an anti-fentanyl vaccine designed to prevent fentanyl from crossing the blood-brain barrier, reducing both its euphoric effects and its potential to cause overdose.

With a multidisciplinary background in behavioral health, neuroscience, and pharmacology, Dr. Haile has dedicated much of his career to improving treatment outcomes for individuals struggling with opioid use disorder. His research explores how vaccines and other therapeutic approaches can support long-term recovery and help prevent relapse. Under his leadership, the University of Houston's fentanyl vaccine research has gained national and international attention as a promising advancement in the fight against synthetic opioid addiction and overdose deaths.

In addition to his academic and research roles, Dr. Haile serves as a scientific adviser and co-founder of ARMR Sciences, a biotechnology company working to advance the fentanyl vaccine toward clinical use. Through collaborations with researchers, healthcare professionals, and industry partners, he continues to contribute to groundbreaking efforts that could significantly impact public health and addiction treatment nationwide.

Dr. Haile's work reflects the University of Houston's commitment to innovation, interdisciplinary research, and addressing critical societal challenges through science and discovery.