

The University of Texas Systemwide Brain Research Summit

AT&T Conference Center at the University of Texas 1900 University Avenue, Austin, TX, 78705

Poster Presentations

1	A Promising Neuromodulation Approach: Exploring rTMS as a First-Line Treatment for Depression	Austin Herrmann (UT Austin)
2	Aberrant Hippocampal Activity and Dopamine System	Stephanie Perez, PhD (UT Health
_	Dysfunction in Rodent Models of Perimenopause &	San Antonio)
	Menopause: Relevance to Psychosis	,
3	Advances in Al for Improving Traumatic Brain Injury Care in	Christian Cruz (UT San Antonio)
	Texas	,
4	Aged Maternal Gut Microbiome Impairs Offspring Behaviors	Kristen Rebeles, BS (UT Health
	and Exacerbates Stroke Outcome	Houston)
5	Astrocyte TAAR1 Elicits Methamphetamine-induced	Irma Cisneros, PhD (UT Medical
	Glutamate Toxicity in HIV-1	Branch Galveston)
6	Brain Aging and Cellular Senescence are Accelerated in Young	Romeesa Khan, BS (UT Health
	Mice and Humans during the Chronic Phase of Ischemic Stroke	Houston)
7	Characterizing Eye Gaze Patterns in Autistic Children during a	Michael Vasko (UT San Antonio)
	Predictive Sensorimotor Task	
8	Closed-Loop Neuromodulation for Hippocampal Oscillatory in	Ruchita Mahesh Kumar, MS (UT
	Humans Using Binary Noise Stimulation & Neural Network	Southwestern)
	State	
9	DMH Glucagon-Like Peptide 1 Receptor Neurons are Required	Eunsang Hwang, PhD (UT
	for the effect of GLP-1R Agonist induced weight loss	Southwestern)
10	Effectiveness of a Bilingual Problem-Solving Training for Care	Kristin Wilmoth, PhD (UT
	Partners of Adults with Dementia	Southwestern) (see 11)
11	Emotional Factors Associated with Elevated Symptoms of Post-	Kristin Wilmoth, PhD (UT
	traumatic Stress during Recovery from Sports Related	Southwestern) (see 10)
	Concussion	



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12	Endothelial Piezo1 Contributes to Cerebral Blood Flow Regulation and its Loss Results in Brain Inflammation and Cognitive/Motor Deficits	Ting Wu (UT Health Houston)
13	Enhancer of Zeste Homolog 2 (EZH2) Inhibitor Improves Cognitive Behavior In Cerebral Amyloid Angiopathy	Zahid Iqbal, PhD (UT Health Houston) (see 47)
14	Escape of Kdm6a from X Chromosome is Detrimental to Ischemic Brains via IRF5 Signaling	Conelius Ngwa, PhD (UT Health Houston)
15	Diverse Effects of Dietary Selenium on Neurological Function and Microglial Activation in Aged Mice	Riya Patel (UT Austin)
16	Episodic Memory Sampling Biases Latent Contextual Inferences in Ambiguous Threat Contexts	John Leri, PhD (UT Austin)
17	Gut-Brain Axis Crosstalk - Fate of Microglia in AD Pathogenesis	Ghalya Alrousan, MS (UT Health Houston)
18	Investigating a Truncated Version of SAINT in Treatment-Naïve Adolescents with Depression: An Open Label Acceptability Trial	Sean O'Sullivan, MD, PhD (UT Austin) (see 51)
19	Impact of Aged Microbiome on Post-Pregnancy Health and Behavior in Mice	Yu-Ju Chen, PhD (UT Health Houston)
20	Impact of the Virtual Reality Adventure Training Exergaming (V-RATE) on Veterans' Brain and Mental Health—A feasibility Study	Caifang Wu (UT Arlington)
21	Inhibition of the Left Amygdala via Low-Intensity Focused Ultrasound Enhances the Encoding of Emotional and Neutral Episodic Memories	Manoj K Doss, PhD (UT Austin)
22	Intrafamilial vs. Extrafamilial Childhood Sexual Abuse: Comparing Characteristics and PTSD Risk	Keerthi Vemulapalli, MD (UT Austin)
23	Investigating Hispanic Ancestry as a Modifier of Neuroinflammatory Gene Expression in Single and Mixed Etiology Dementia	Elizabeth Ochoa, PhD (UT Health San Antonio)
24	Investigating The Detrimental Effects Of Gestational Diabetes In Dams and Offsprings Health Outcomes with age	Jennifer Mendoza (UT Health Houston)
25	Leptomeningeal blood vessel fibrosis in Cerebral Amyloid Angiopathy may be mediated through multimodal Osteopontin Signaling from CNS fibroblasts	Vasilia Kyriakopoulos (UT Health Houston)
26	MAPping Impulsivity: Cortical Architecture as a Biosignature for Relapse Vulnerability in Substance Use Disorders	Holly Chapman, MS (UT Medical Branch Galveston)



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27	MAVS Minor genotype and the development of HIV Associated Neurocognitive Disorders (HAND) in substance use	Maura Ortiz-Camacho, MD, PhD (UT Medical Branch Galveston)
28	Microglial Ifi27l2a Regulates Neuroinflammation Following Stroke	Sodam Kim, PhD (UT Health Houston)
29	Neural Encoding of Acoustic Features Across Speech and Music in the Human Brain	Rajvi Agravat, BS (UT Austin)
30	NR5A1 in the VMH in Adults Regulates Food Intake	Lara Bideyan Hernandez, PhD (UT Southwestern)
31	Pilot Study of Acute Behavioral Effects of Pallidal Burst Stimulation in Parkinson's Disease	Saar Kariv, MD (UT Southwestern)
32	Python-Based Machine Learning for Three-Dimensional Human Brain Model Segmentation and Analysis	Morgan Smith, MS (UT Health San Antonio)
33	Research Pathways in US Psychiatry Residency Programs: A Website Analysis	Idris Altinisik, MD (UT Health Houston)
34	Repetitive Head-injury Exposure and Later-in-life Cognitive and Emotional Outcomes Among Former Collegiate Football Players: a CLEAATS Investigation	Jeff Schaffert, PhD (UT Southwestern)
35	Selective Activation of Peritoneal TRPV1-Containing Vagal Afferents Promotes Sustained Mild Hypothermia and Neuroprotection Following Stroke	Alexander Andersohn (UT Health Houston)
36	Sex-Specific Polarization of Neutrophils Following Neonatal Hypoxic-Ischemic Brain Injury	Mario Carrera (UT Health Houston)
37	Simultaneous MEG and EEG Imaging Reveals Widespread Cortical Effects of Acute Transcranial Photobiomodulation in Healthy Adults	Tyrell Pruitt, PhD (UT Southwestern)
38	Small Hits with Big Impacts: The Implications of Repetitive Mild Traumatic Brain Injury in Adolescent Mice	Dylan Devonald (UT Health Houston)
39	Stimulation of Sensory or Motor Vagal Neurons Produces Opposite Effects on Glucose Homeostasis	Luis A. Leon-Mercado, PhD (UT Southwestern)
40	The Bonehead Model: A Novel Co-culture System for the Study of Skull-brain Interactions	Patrick Devlin, PhD (UT Health Houston)
41	The Detrimental Effects of Post-Stroke Social Isolation on Microglial Activation are Mediated by MicroRNAs	Anik Banerjee, PhD (UT Health Houston)
42	The Effects of Intermittent Fasting as a Post-Stroke Therapeutic Strategy in an Obese Murine Model	Ung Hyun Kim (UT Health Houston)



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43	The Effect of Social Isolation on Cerebral Amyloid Angiopathy	Danye Jiang, PhD (UT Health Houston)
44	The Effects of Social Isolation Stress on Murin Prefrontal	Stephanie A Villalon (UT San
	Cortical Function and Transriptome	Antonio)
45	The Link Between Depression and Bone Fractures in the Rio	Blake Martin (UT Rio Grande
	Grande Valley	Valley)
46	The Role of Astrocyte TNFR2 in Experimental Autoimmune	Kyle Pressley, MS (UT San
	Encephalomyelitis, a Mouse Model of Multiple Sclerosis	Antonio)
47	Transforming Growth Factor Beta Receptor 2 Knockdown	Zahid Iqbal, PhD (UT Health
	Improves Cognitive Function and Breathing In Alzheimer's	Houston) (see 13)
	Disease Mice	
48	Traumatic Brain Injury in Older Adults Arrived at Emergency	Karan P. Singh, PhD (UTHealth
	Departments in Texas, 2018-2022: Incidences and Etiology	Tyler)
49	Traumatic Brain Injury in Children Treated in Emergency	Tuan D. Le, MD, MPH, DrPH (UT
	Departments in Texas: Incidence and Risk Factors.	Health Tyler)
50	Triggering Receptor Expressed on Myeloid Cells 2 (TREM2)	Mekenzie Peshoff, BS, BA (UT
	Regulates Microglial Phagocytosis in Gliomas	MD Anderson)
51	Truncated SAINT: Targeting Depression and Cognition in	Sean O'Sullivan, MD, PhD (UT
	Treatment-Naive Adolescents	Austin) (see 18)
52	Unraveling The Role of Chitotriosidase (CHIT1) in Alzheimer's	Swati Mohapatra, PhD (UT
	Disease	Health Houston)
53	Using Machine Learning to Predict Poor Mental Health Status	Christopher Demetriades (UT
	in the Geriatric Population	Austin)