Director’s Welcome and Neuroscience Overview

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NEUROFEST

DAY 2:
Welcome
• Center for Neuroscience video
• Background on challenges in mental health research

2 short talks:
• Dr. David Olson
• Dr. John Gray

Student datablitz
• 3 students, 3 min each

Interactive Booths: Gather Platform
Neuroscience = the science of understanding how the brain works.
Psychiatric illnesses affect 15-20% of the population world-wide.

- **1.1%**: About 2.6 million American adults live with schizophrenia.
- **6.7%**: Major depressive disorder affects about 8.7 million American adults.
- **26.2%**: An estimated 68.2 million American adults are affected by a mental disorder.
- **4.1%**: An estimated 9.5 million American adults have Attention Deficit Hyperactivity Disorder (ADHD).
- **2.6%**: Bipolar disorder affects 6.7 million American adults per year.

**Autism**
Today, autism affects 1 in 54 children and 1 in 34 boys, making it more common than pediatric cancer, diabetes, and AIDS combined.
The RIPPLE EFFECT of mental illness

PERSON
- 18% of U.S. adults with mental illness also have a substance use disorder
- Rates of cardiometabolic disease are twice as high in adults with serious mental illness

FAMILY
- Caregivers spend an average of 22 hours per week providing unpaid care

COMMUNITY
- 37% of people incarcerated in state and federal prison have a diagnosed mental condition
- 70% of youth in the juvenile justice system have at least one mental health condition
- 21% of people experiencing homelessness also have a serious mental illness

WORLD
- Depression is a leading cause of disability worldwide
- Depression and anxiety disorders cost the global economy $1 trillion each year in lost productivity

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stand up against stigma
No Health without Mental Health
What causes neurodevelopmental and psychiatric disorders?

- Genes
- Neurobehavioral dysfunction
Many psychiatric illnesses start early during brain development.

Treatments for some psychiatric disorders target neurotransmitter systems.
Approach to find new treatments for psychiatric illness

Discovery-driven neuroscience research