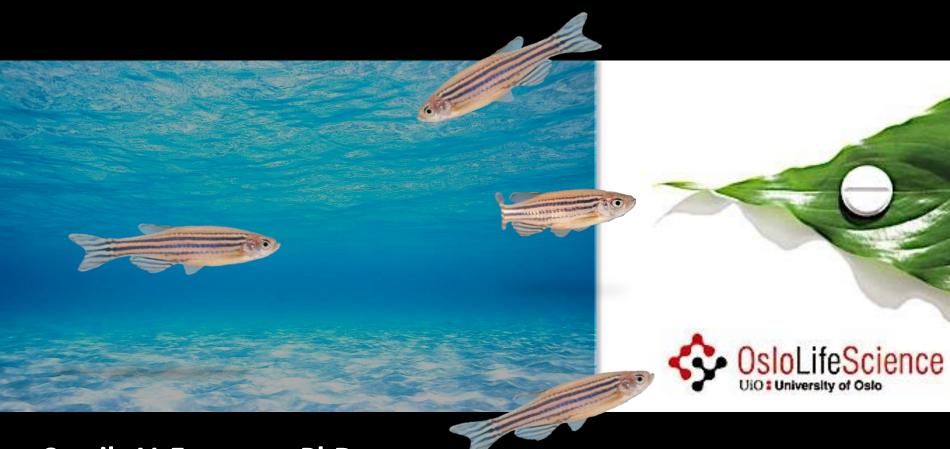
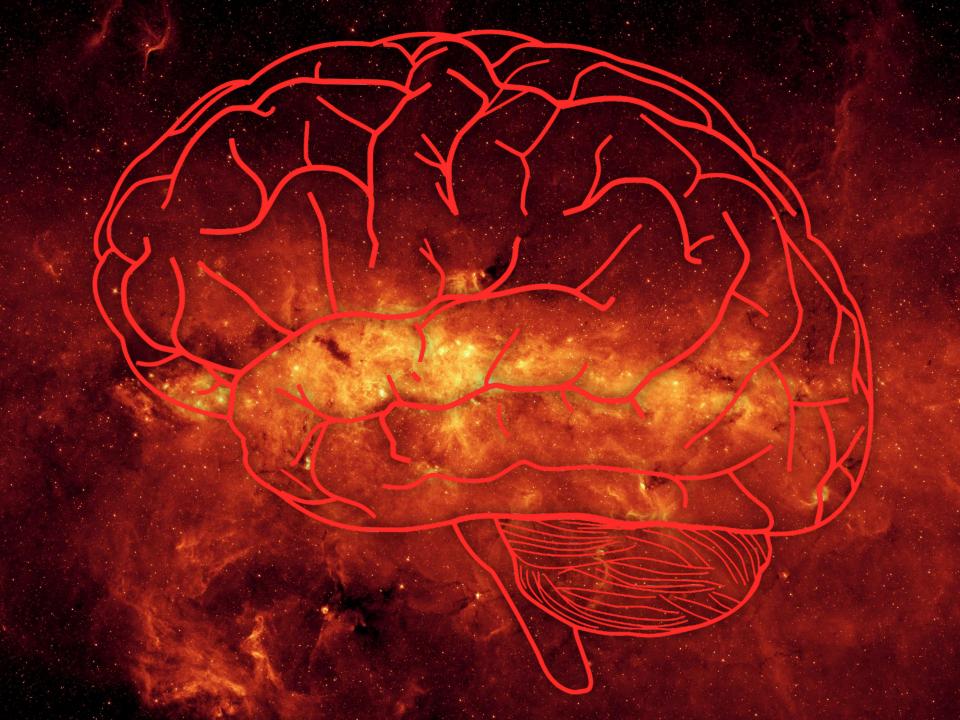
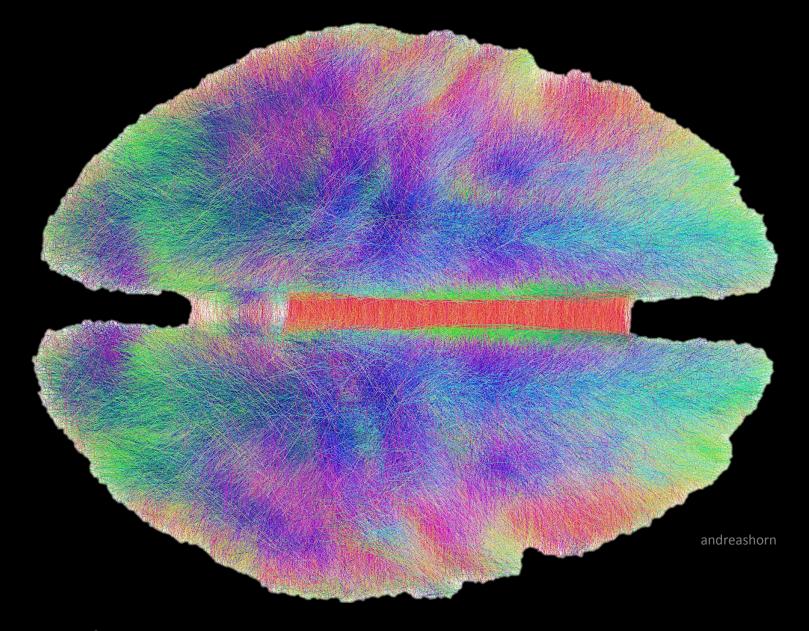
From Models to Molecules: Using Zebrafish to Understand and Treat Epilepsy



Camila V. Esguerra, PhD
Chemical Neuroscience Group
Biotechnology Centre of Oslo and School of Pharmacy

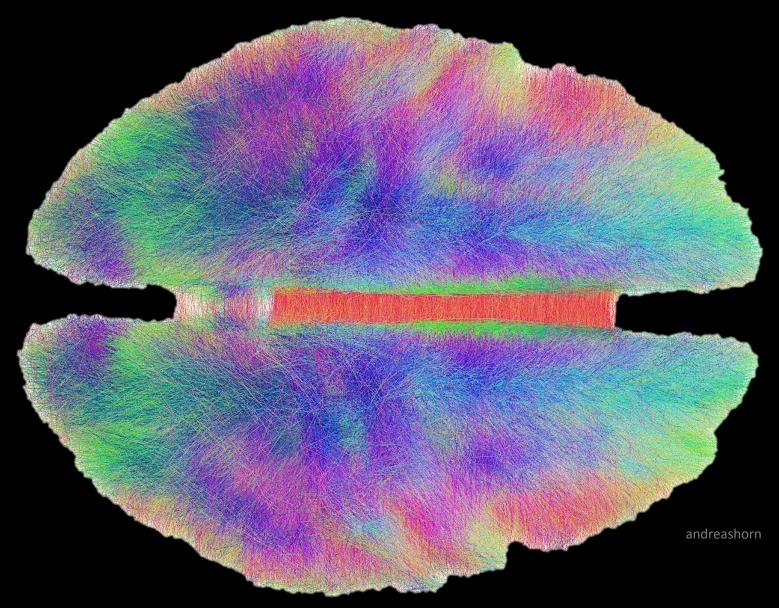




The Human Brain Connectome



20,000,000,000

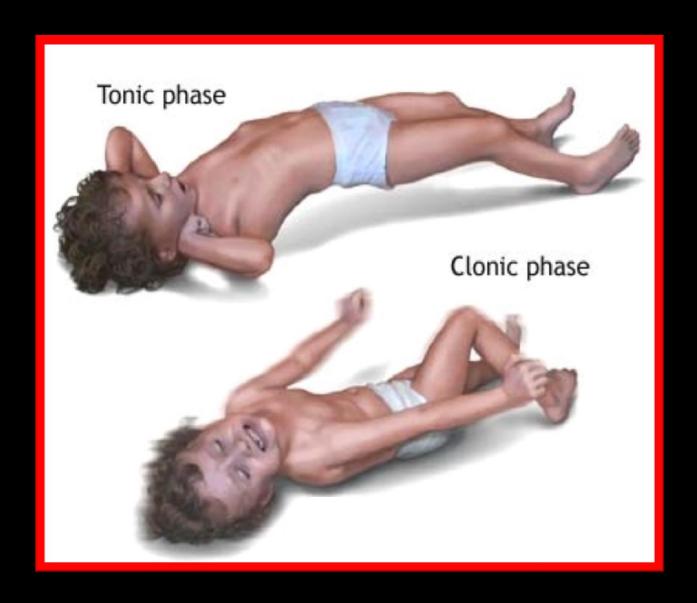


1,000,000,000,000,000

How does a normal brain become abnormal?



CONVULSIONS



Chronic & Common

Drug Resistance

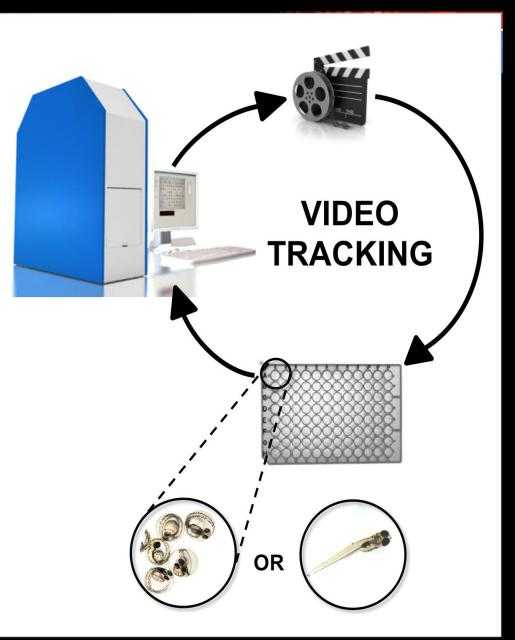
Life Impact

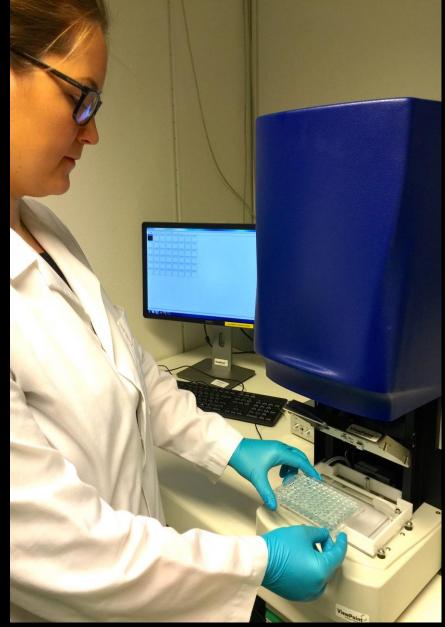
Multiple Causes

Cure

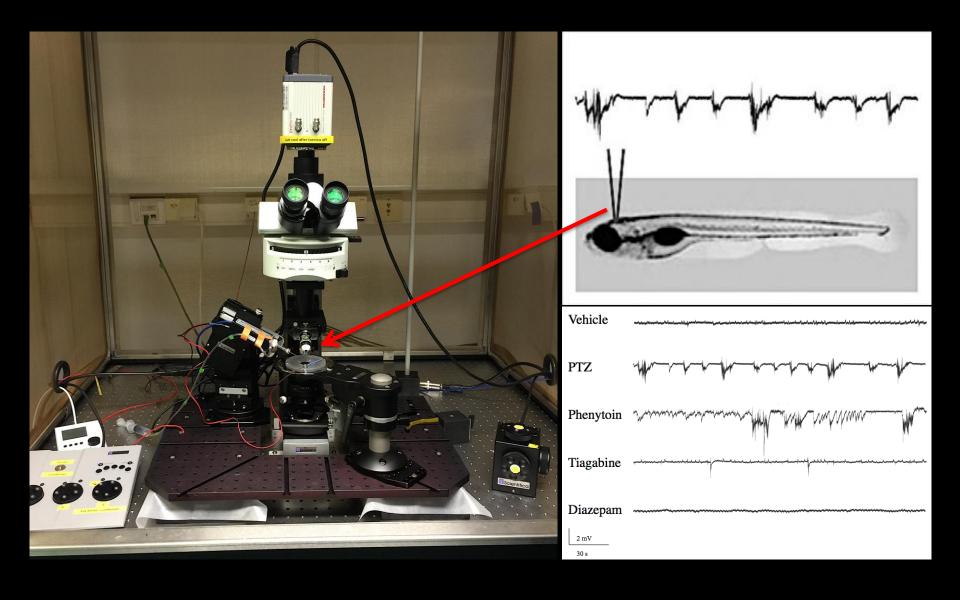








Electroencephalograph (EEG)



Brain Imaging



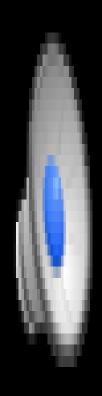
Visualizing seizures in a 4 day-old zebrafish

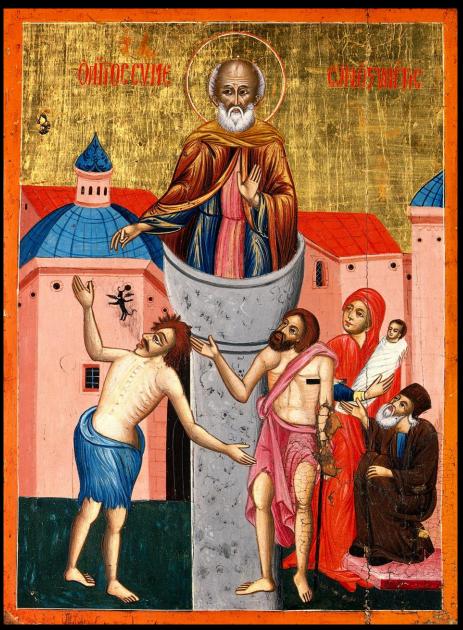
How do find new drugs?

Medicines from Nature



Searching for SAFE drugs





new KNOWLEDGE therapeutic SAFETY seizure FREEDOM

HOPE

Tusen Takk!

