RESEARCH PRESENTATIONS

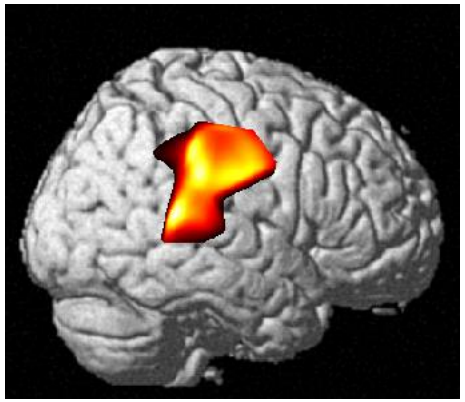
BEHAVIORAL

Anjana Bhat

Kathleen Brewer-Smyth

Stuart McCaughey

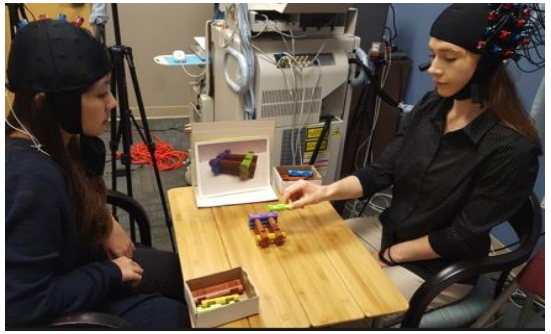
UNIVERSITY OF DELAWARE



fNIRS to study cortical activation during movements

Anjana Bhat, MS PT, PhD

Move2Learn Lab in STAR, abhat@udel.edu

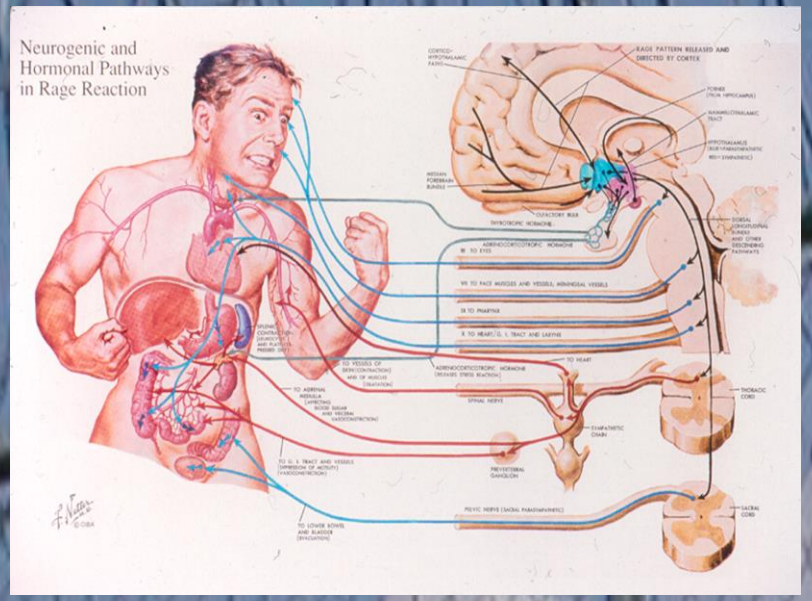


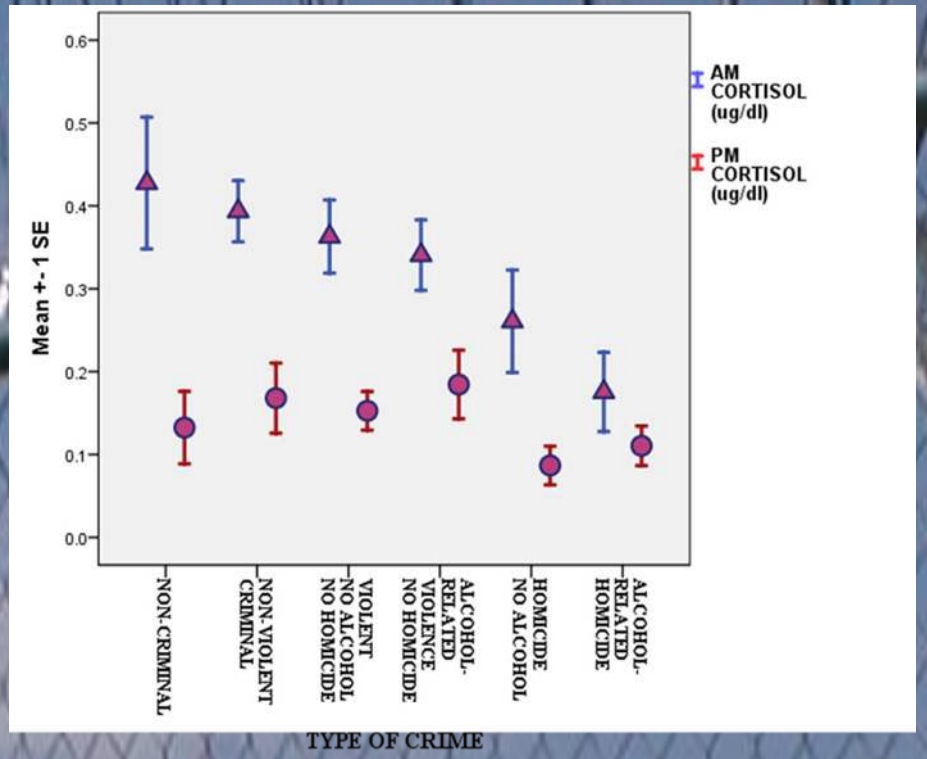
Neurobiology of Childhood Trauma in Adult Women

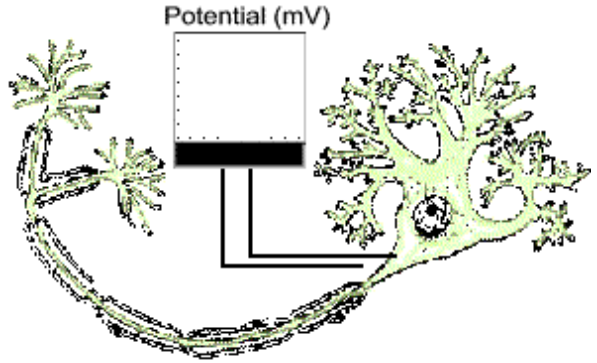
Kathy Brewer-Smyth, PhD, CRRN, FAAN

Associate Professor

- Community Engaged
- TBI
- Epigenetics

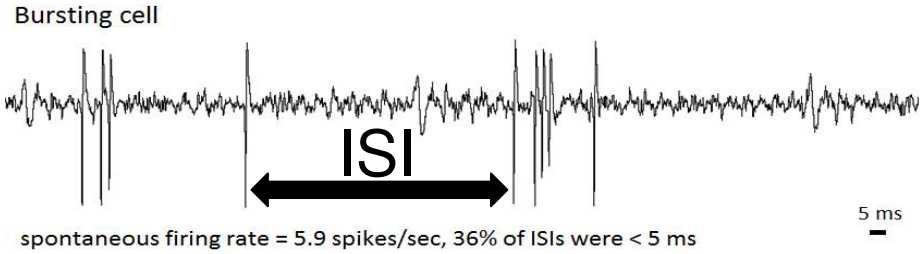




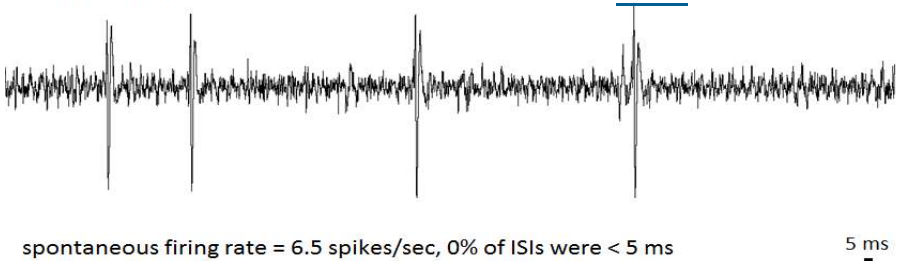


Neurons that burst (double-fire) are especially effective at driving their targets

In the mouse NST (gustatory relay), some cells burst

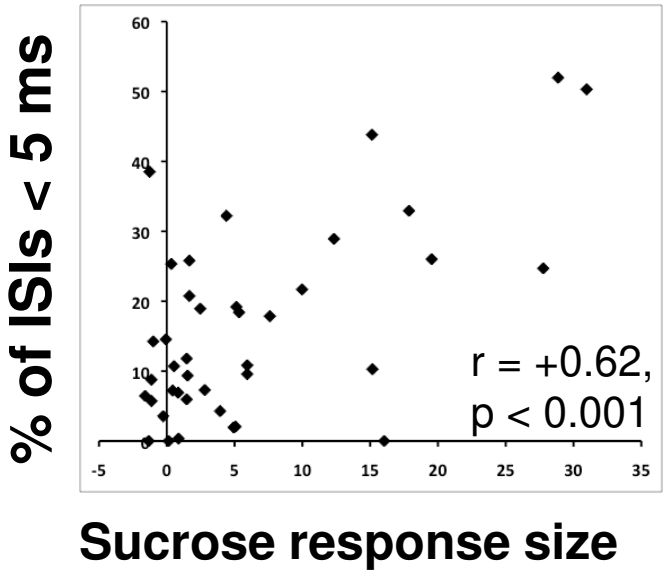


and some cells do not



Stuart McCaughey

Which neurons tend to burst the most?



In 129 mice, bursting occurs in those neurons that are most-sucrose-responsive

This relationship is found in 129 and 129/129 mice (low-affinity sugar receptor), but not in B6 or B6/129 mice (high-affinity sugar receptor)

Conclusion: bursting is directed to certain NST cells, based on sugar receptor genotype, and may "boost" a weak incoming neural signal to sugars