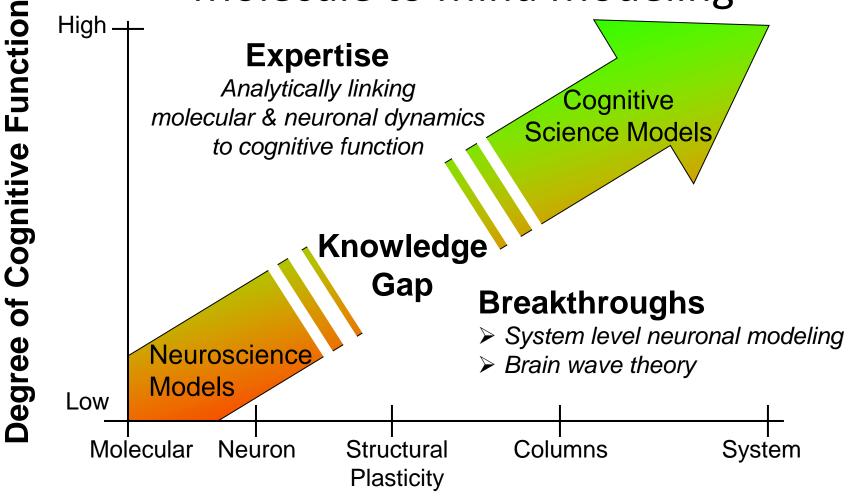
Lewis Rhodes Labs David Follett Cassandra Roth David Fair Dr. Pamela Follett MD, MPH

Knowledge Gap Pioneers Molecule to Mind Modeling



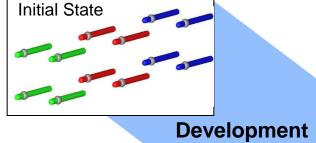
Level of Abstraction

Bridging the Knowledge Gap

System Level Developmental Model

States

- Non-deterministic, self organizing
- Neuron algorithms derived from published molecular mechanisms
- Brain wave mathematics
 - Relate processing to spatial/temporal wave topology

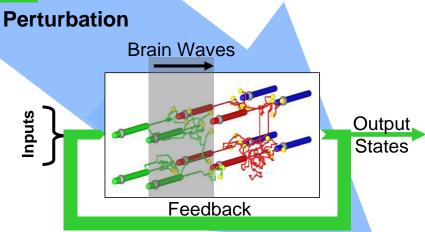


Brain Waves Physiology **standard**Training etc. Feedback

Cognitive Model Primitives Data representation Output State formation & transition System noise

Proof points: Hypoxic/Ischemic brain injury

- Model predicts
 - Adaptive response to molecular injury leading to loss of cognitive function
 - Prediction of brain wave alterations and relation to magnitude of clinical presentation
 - Novel therapeutic opportunities
- > Follett et al. J Child Neurol, 2009



Lewis Rhodes Labs 2010

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Partnering

- Molecule to Mind Research insights:
 - Cognitive state formation and transitions
 - Brain Wave Cortex dynamics
 - Data representation
 - Critical role of noise in cognitive processing

Inclusion of Molecule to Mind primitives will revolutionize cognitive modeling

- Desired partners:
 - Cognitive model thought leaders

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