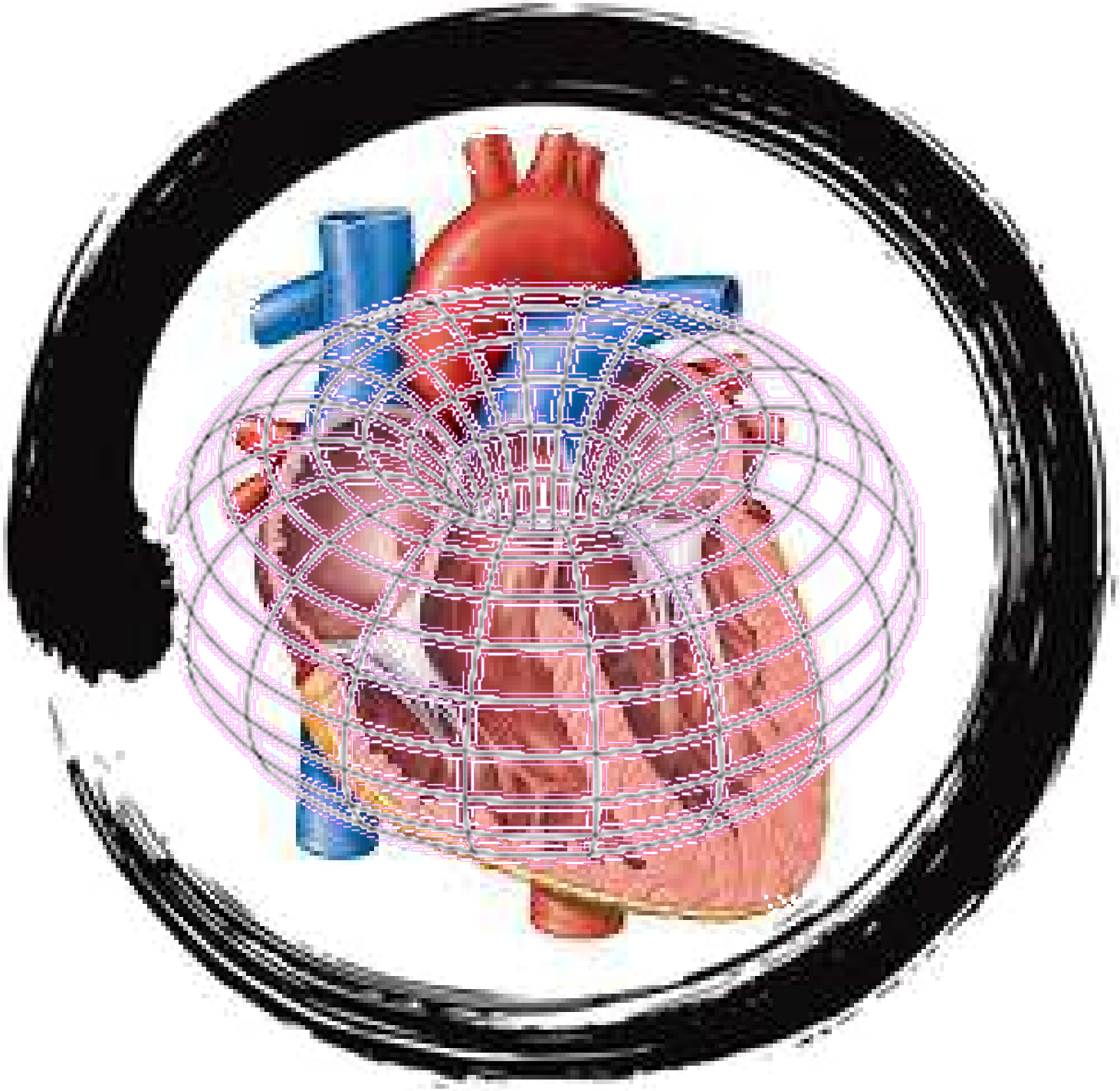


Autonomic Neurophysiological Control and Electromolecular Stress

Implications for Multiple Cardiovascular Disorders and Diseases

An Exploratory Map of Diverse (known and unknown) Terrain employing both established and novel models of interpreting nonlinear dynamics within biological systems

Goal-Set (comprehensive):

§ Identify discernible early indicators of emergent/potential arrhythmias and neuromuscular control disorders through non-invasive electro-acoustic measurements

§ Identify non-invasive, non-pharmaceutical therapeutic procedures to minimize/restore health-stabilizing function

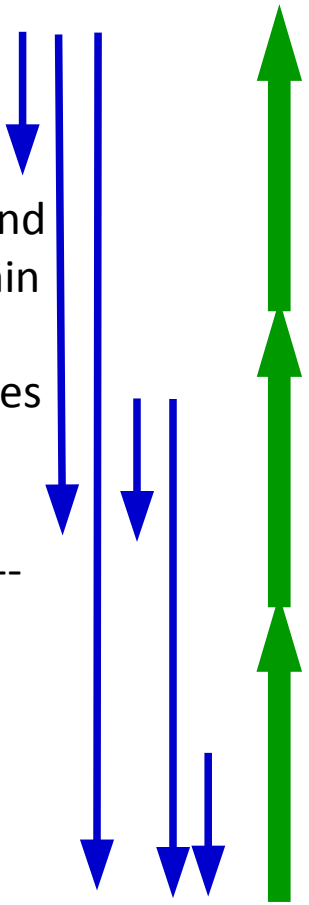
Neuroplex-C Model

CNS -- focus on ANS, neural ganglia, neuronal axons and signal transmission

Cardiopulmonary -- focus on tribological models and turbulent wave dynamics within highly-interdependent cybernetic network state spaces

Gastrointestinal-Endocrine -- focus on + and - feedback loops of control and flow

Psychological – focus on psychophysiological behaviors of emotion, cognition, locomotion and social interaction



Neuroplex-C Model Principle Systemics

Genetic Factors

NSF (Neuronal Stressor Factor; chronic, asymmetric electromolecular stressor agents)

NCB (Neural Cybernetic Bifurcation; chronic, asymmetric signal conflict and constructive/destructive interference)

AVT (fundamental Arterio-Vascular Tribology – turbulence, friction, viscosity, lubrication, roughness; "Stribeck Curve" dynamics)

MAMDA (macro-anatomical mechanics, dynamics and activities)

GST (neural Ganglia Signal Turbulence, chaos and non-linear attractor dynamics - "Lorentz-Clifford" phenomena)

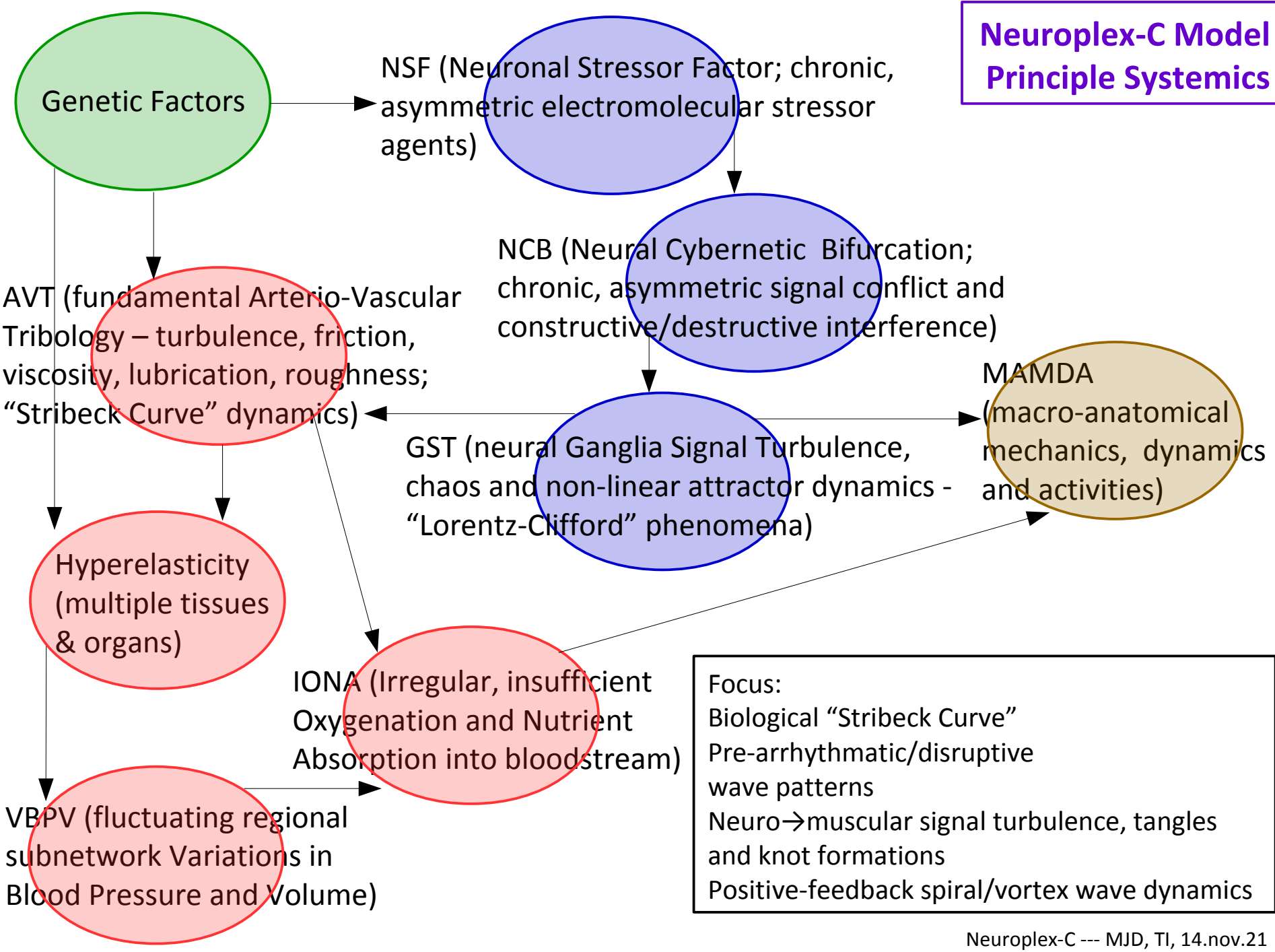
Hyperelasticity (multiple tissues & organs)

IONA (Irregular, insufficient Oxygenation and Nutrient Absorption into bloodstream)

VBPV (fluctuating regional subnetwork Variations in Blood Pressure and Volume)

Focus:
Biological "Stribeck Curve"
Pre-arrhythmatic/disruptive wave patterns
Neuro→muscular signal turbulence, tangles and knot formations
Positive-feedback spiral/vortex wave dynamics

Neuroplex-C Model Principle Systemics



Focus:
Biological "Stribeck Curve"
Pre-arrhythmatic/disruptive
wave patterns
Neuro→muscular signal turbulence, tangles and knot formations
Positive-feedback spiral/vortex wave dynamics