NIH Center for Biomedical Computation
Physics-based Simulation of Biological Structures

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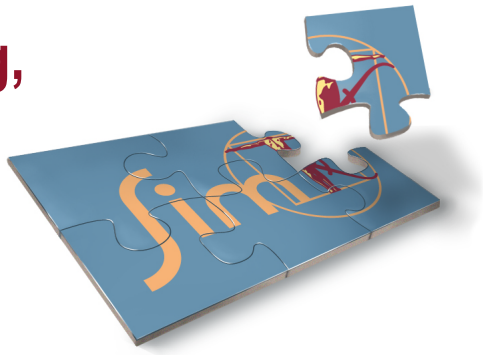

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Simbiome

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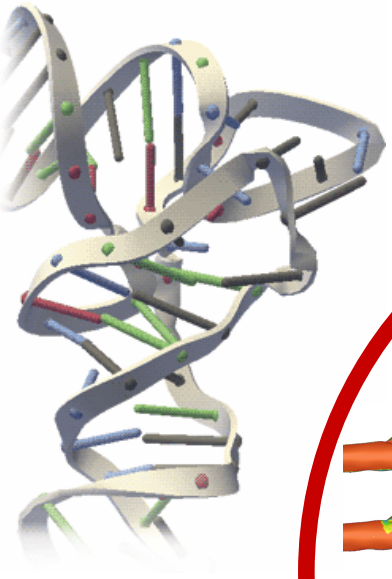
NIH Roadmap Grant U54 GM072970

RNA regulates genes which affect cells, cancers, and autoimmune diseases.

See how Simbios is making fundamental discoveries about the structure and function of RNA.

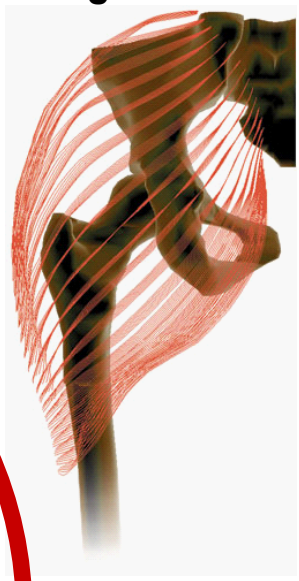
PI: Russ Altman & Dan Herschlag

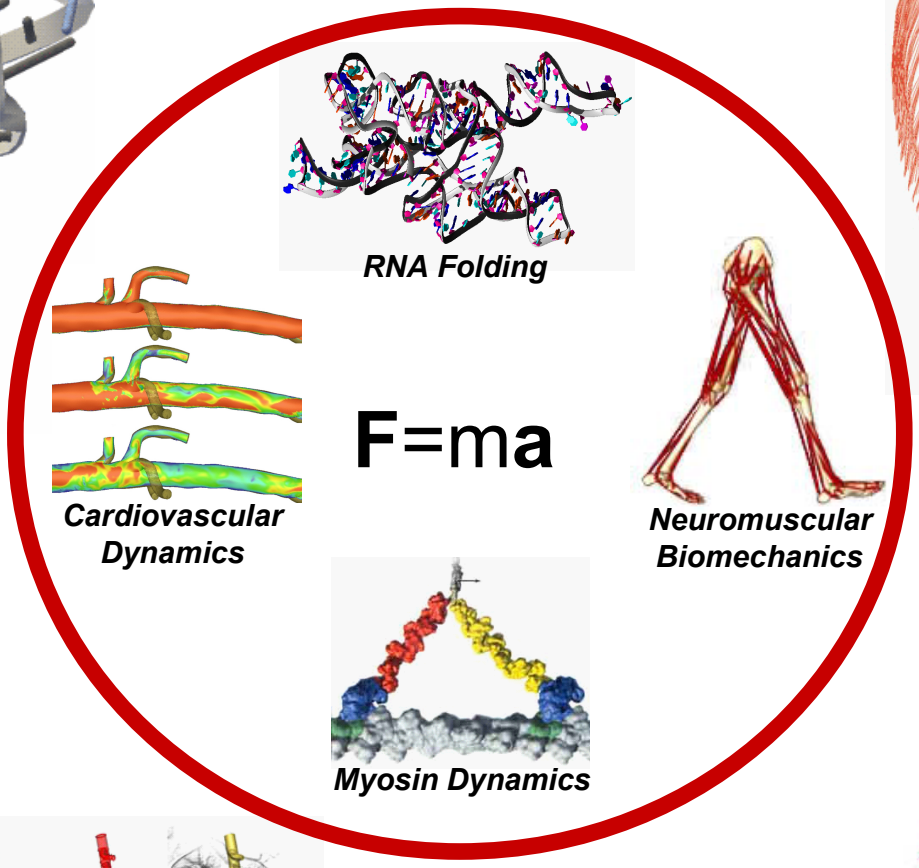


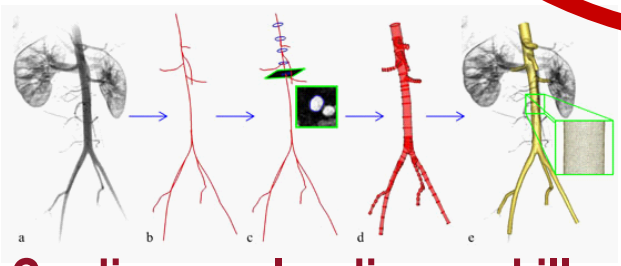
Neuromuscular biomechanics seeks to help people with cerebral palsy, Parkinson disease, birth defects, and spinal cord injuries.

See how Simbios is affecting physical therapies, orthotics, and surgeries.

PI: Scott Delp



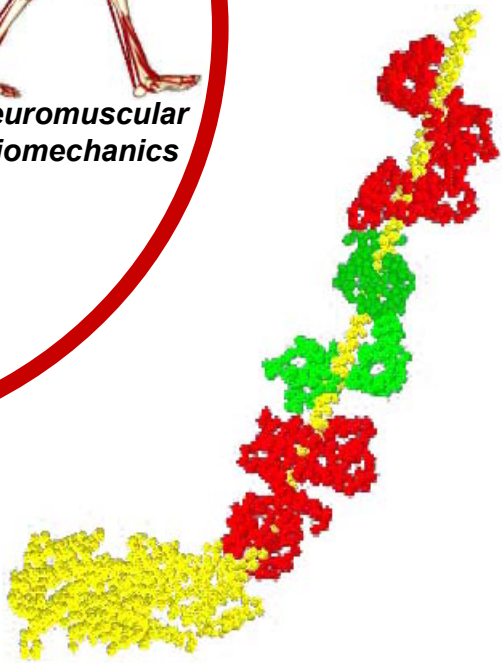




Cardiovascular disease kills more Americans than the next five diseases combined.

See how Simbios is impacting surgical, pharmacological, and catheter treatments.

PI: Charley Taylor



Myosin is the fundamental source of motive force in living systems.

See how Simbios is deciphering this mechanical-chemical process.

PI: James Spudich