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His research is math modeling oriented systems biology, dynamic systems modeling, simulation and optimization and has always been integrated with wet-lab data, mostly in rats and fish from his own lab. Currently, it is translational with a focus on human health and disease processes (cancer, thyroid, diabetes, etc ...

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Systems biology combines experimental and computational research to facilitate understanding of complex biological processes. In this chapter we describe data repositories, data standards, modeling, and visualization tools as prerequisites for systems biology research in order to help us to better study and understand biological processes.

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Motivation: Many problems of interest in dynamic modeling and control of biological systems can be posed as non-linear optimization problems subject to algebraic and dynamic constraints. In the context of modeling, this is the case of, e.g. parameter estimation, optimal experimental design and dynamic flux balance analysis.

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