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## Principles Of Biological

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What is Systems Biology?

Systems biology is concerned with the study of biological functions and mechanisms, underpinning inter- and intra-cellular dynamical networks, by means of signal- and system-oriented approaches. "Life is an emergent, rather than an immanent and inherent, property of matter.

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This course will introduce the student to contemporary Systems Biology focused on mammalian cells, their constituents and their functions. Biology is moving from molecular to modular. As our knowledge of our genome and gene expression deepens and we develop lists of molecules (proteins, lipids, ions) involved in cellular processes, we need to understand how these molecules interact with each other to form modules that act as discrete functional systems.

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What is Systems Biology? It is a new field in biology that aims at system-level understanding of biological systems. – Hiroaki

Kitanon Question is, what do we mean by biological systems? By "system", we mean a bunch of parts that are connected to one another and work together.

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