



- ↖ Julien de la Mettrie, *L'homme machine*
- ↖ Stéphane Leduc, *La biologie synthétique*
- ↖ D'Arcy Wentworth Thompson, *On Growth and Form*
- ↖ Harold S. Black: negative feedback
- ↖ Ludwig von Bertalanffy, general theory of systems
- ↖ Erwin Schrödinger, *What is Life?*
- ↖ Norbert Wiener, cybernetics
- Nicolas Rashevsky: Committee on Mathematical Biology
- Heinz von Foerster: Biological Computer Laboratory
- ↖ Robert Rosen, (M,R) Systems
- Humberto Maturana and Francisco Varela, *Autopoiesis and Cognition* ↗
- ↖ Mihajlo D. Mesarović: "Systems biology"
- ↖ Tibor Gánti, the chemoton
- Manfred Eigen and Peter Schuster, *The Hypercycle: a Principle of Natural Self-Organization* ↗
- Robert Rosen, *Life Itself* ↗
- Stuart Kauffman, *Origins of Order* ↗
- Tibor Gánti, *The Principles of Life* ↗



- ↖ Friedrich Miescher: isolation of DNA
- ↖ Friedrich Miescher: chemical theory of inheritance
- DNA shown to be the genetic material ↗
- Hershey–Chase experiment ↗
- ↖ Structure of DNA
- ↖ Operon concept
- ↖ Genetic code
- ↖ Repressor isolated
- ↖ Transformation by plasmids
- ↖ Viral genome
- ↖ Human genome