

Prof. Uri Alon Bio – October 2020

Uri Alon is a professor at the Department of Molecular Cell Biology at the Weizmann Institute of Science.

He earned his PhD in physics from the Weizmann Institute of Science, and was a postdoctoral fellow at Princeton University. He works at the interface between physics and biology, and is one of the founders of the field of Systems Biology. He discovered that complex networks of biological interactions are made of a small set of recurring circuits called network motifs. He then defined the functions of these elementary circuits with experiment and theory. Alon's network motifs form a basis for understanding cells and for designing new biological circuits. His recent research discovers principles in human physiology and systems medicine, focusing on hormone circuits, fibrosis, diabetes and aging.

Prof. Alon received awards including the Nakasone prize, the Overtone Prize, the Jacques Solvay Chair in Physics and the Michael Bruno Memorial Award, and is the incumbent of the Abish-Frenkel Professorial Chair in Systems Biology.

Uri Alon published a foundational book on systems biology (now in its second edition), *An Introduction to Systems Biology: Design Principles of Biological Circuits* (2006, 2019).