

A New Biology for the 21st Century

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New Biology is integration and reintegration of the many sub-disciplines of biology. It is an integration of biology with physics, chemistry, computer science, engineering, and mathematics that will permit deeper understanding of biological systems, which will both lead to biology-based solutions to societal problems and also feedback to enrich the individual scientific disciplines that contribute new insights. We believe that the best way to capitalize on the unique opportunity presented by emerging capabilities in the life sciences is to undertake a bold national program to apply the New Biology to the solution of major societal problems in the areas of food, environment, energy and health. This report represents a collective effort of academic members, PhD students in Biochemistry for translation of the book entitled “New Biology for the 21st Century” during professional sessions and meetings at Tarbiat Modares University.

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