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Beijing



什么是系统生物学

For the past 30-40 years, biology at the molecular and cellular level has been studied from the perspective of analyzing individual genes and individual proteins. Systems biology, on the other hand, is interested in analyzing whole systems of genes or proteins. What this means is that we use tools for capturing information from many different elements of the overall system. And we have to be able to integrate the information that's obtained from all the different biological information: DNA information, RNA information, protein information, protein interaction information, pathways and so on. The ultimate objective is to use this information to build mathematical models that can predict, or at least tell us something about the behavior of the system under study as well.