

# Introduction To Molecular Biology

.Prasanth H

## Molecular Biology

- **Molecular biology**; the study of **gene** structure and functions at the **molecular level** to understand the molecular basis of hereditary, genetic variation, and the expression patterns of genes.
- The **Molecular biology** field overlaps with other areas, particularly genetics and biochemistry.
- The **genome** of an organism is the totality of genetic information and is encoded in the **DNA** (or, for some viruses, **RNA**).
- The **genome database** is organized in six major organism groups: eukaryotes, bacteria, archaea, viruses, viroids and plasmids.
- **All living things are grouped into three domain: eukaryotes:**

# Ecell System Basic Concepts And Applications Molecular Biology Intelligence Unit

**Satya Nanda Vel Arjunan, Pawan K.  
Dhar, Masaru Tomita**



## **Ecell System Basic Concepts And Applications Molecular Biology Intelligence Unit:**

*E-Cell System* Satya Nanda Vel Arjunan, Pawan K. Dhar, Masaru Tomita, 2013-05-13 The interdisciplinary field of molecular systems biology aims to understand the behavior and mechanisms of biological processes composed of individual molecular components. As we gain more qualitative and quantitative information of complex intracellular processes, biochemical modeling and simulation become indispensable not only to uncover the molecular mechanisms of the processes but to perform useful predictions. To this end, the E Cell System, a multi algorithm multi timescale object oriented simulation platform, can be used to construct predictive virtual biological systems. Gene regulatory and biochemical networks that constitute a sub or a whole cellular system can be constructed using the E Cell System to perform qualitative and quantitative analyses. The purpose of *E Cell System Basic Concepts and Applications* is to provide a comprehensive guide for the E Cell System version 3 in terms of the software features and its usage. While the publicly available E Cell Simulation Environment version 3 User's Manual provides the technical details of model building and scripting, it does not describe some of the underlying concepts of the E Cell System. The first part of the book addresses this issue by providing the basic concepts of modeling and simulation with the E Cell System.

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