

CHAPTER 1: BIOLOGY: EXPLORING LIFE

1.1 All forms of life share common properties

Common Properties

1. Order
2. Reproduction
3. Growth and Development
4. Energy Processing
5. Response to the Environment
6. Regulation
7. Evolutionary Adaptation

- Points:
 - **Living cells** are the basis of the complex organization of life.

1.2 In life's hierarchy of organization, new properties emerge at each level

1. **Biosphere**
2. **Ecosystem** - all of the organisms living in a particular area with physical components
3. **Community** - the entire array of organisms in an ecosystem
4. **Population** - all the individuals of a particular species living in an area
5. **Organism** - individual living thing
6. **Organ System** - consists of several organs that cooperate in a specific function
7. **Organ** - made up of several different tissues
8. **Cell** - the fundamental unit of life
9. **Organelle** - a membrane-enclosed structure that performs a specific function in a cell
10. **Molecule** - is a cluster of small chemical units called atoms

- Points:
 - **DNA (deoxyribonucleic acid)** - the molecule of *inheritance*
 - Each unique form of life is called a **species**.
 - The **emergent properties** of each level result from the specific arrangement and interaction of its parts.

1.3 Cells are the structural and functional units of life

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Biology: Exploring Life Neil Campbell, Brad Williamson, Robin Heyden, 2003-06-30 **Biology, Study Guide** Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life Educational Advisory Manual United States. War Department. Information and Education Division, 1945 **Prentice Hall Exploring Life Science** Anthea Maton, 1997 **Omega-3 Fatty Acids** Mahabaleshwar V. Hegde, Anand Arvind Zanwar, Sharad P. Adekar, 2016-09-15 This volume argues for the importance of essential nutrients in our diet Over the last two decades there has been an explosion of research on the relationship of Omega 3 fatty acids and the importance of antioxidants to human health Expert authors discuss the importance of a diet rich in Omega 3 Fatty acids for successful human growth and development and for the prevention of disease Chapters highlight their contribution to the prevention and amelioration of a wide range of conditions such as heart disease diabetes arthritis cancer obesity mental health and bone health An indispensable text designed for nutritionists dietitians clinicians and health related professionals Omega 3 Fatty Acids Keys to Nutritional Health presents a comprehensive assessment of the current knowledge about the nutritional effects of Omega 3 fatty acids and their delivery in foods **Omega-3 Fatty Acids** Anand Arvind Zanwar, Sharad P. Adekar, Mahabaleshwar V. Hegde, 2025-06-20 This book argues for the importance of omega 3 fatty acids in our diet Omega 3 fatty acids are a must in our daily diet as the human body cannot synthesize it The human body is crippled in evolution we are deprived of the genes that are needed to synthesize these vital molecules Except for regular fish eaters the majority of the human population does not get adequate omega 3 fatty acid in their food Fatty acids provide a structural framework for cells tissues and organs as well as the building blocks for several bioactive ingredients and they provide a wide range of benefits from general improvements in health to protection against inflammation and disease Omega 3 Fatty Acids discusses various sources of omega 3 fatty acid health implications of omega 3 fatty acid intake and remedial measures that can improve diet for those lacking in fatty acids The book opens with a discussion of various sources of omega 3 fatty acids such as flaxseed milk eggs and marine algae Following this is a detailed discussion of the effect omega 3 intake has on different conditions like pregnancy psoriasis aging disorders cardiovascular events obesity and non communicable diseases such as diabetes and Alzheimer s This much expanded edition includes new chapters on topics such as the linoleic to linolenic dietary intake ratio the role of omega 3 fatty acids in eye health the effects of omega 3 fatty acids on metabolic syndrome and fatty liver disease and the influence of omega 3 fatty acids on bone turnover and energy metabolism An indispensable text designed for nutritionists dietitians clinicians and health related professionals Omega 3 Fatty Acids presents a comprehensive assessment of the current knowledge about the nutritional effects of omega 3 fatty acids and their

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