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units of biology molecules and cells molecular and cellular biology is a dynamic discipline cell culture is one of the major tools used in cellular and molecular biology providing excellent model systems for studying the normal physiology and biochemistry of cells e g metabolic studies aging the effects of drugs and toxic compounds on the cells and mutagenesis and carcinogenesis the biological cell constitutes the basic unit of life and performs a variety of functions the synthesis sorting storage and transport of molecules the expression of genetic information cell in biology the basic membrane bound unit that contains the fundamental molecules of life and of which all living things are composed a single cell is often a complete organism in itself such as a bacterium or yeast other cells acquire specialized functions as they mature as a cell and molecular biology cmb major you will learn about the fascinating ways that genes and biomolecules drive the behavior and health of eukaryotic cells tissues and organisms the bs in cell and molecular biology is suited for students preparing for a variety of careers such as scientific research healthcare biotechnology cell molecular biology department of biology rapid advances in biology have had a major impact on our society from the production of new drugs to revolutionary advances in our understanding of how cells work the areas of cell and molecular biology have contributed to our lives in a number of ways molecules and cells is an international online open access journal devoted to the advancement and dissemination of fundamental knowledge and ground breaking research in all areas of cellular and molecular biology publications cover a broad range of topics of general interest but should be within view full aims scope from the chair the cell and molecular biology graduate group camb is an interdisciplinary graduate program providing rigorous training in modern cell and molecular biology within this integrated program are six discipline areas cancer biology cb cell biology physiology and metabolism cpm developmental stem cell and regenerative the cell and molecular biology program is a dynamic interdisciplinary program spanning 4 colleges and 17 departments the program offers diverse research opportunities in agriculture engineering nanotechnology biochemistry and basic biology biological sciences college engineering and natural sciences explore the biomedical and genetic world with a cell and molecular biology degree the cell and molecular biology major explores the mechanisms of life at the molecular level with an emphasis on cells proteins and dna

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the biological cell constitutes the basic unit of life and performs a variety of functions the synthesis sorting storage and transport of molecules the expression of genetic information

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cell in biology the basic membrane bound unit that contains the fundamental molecules of life and of which all living things are composed a single cell is often a complete organism in itself such as a bacterium or yeast other cells acquire specialized functions as they mature

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