

relevant topics for the AP Biology exam. Two full-length practice tests that reflect the actual exam in length, question types, and degree of difficulty. Review of key illustrative examples that help clarify tested topics and serve as examples to use when answering the free-response questions. Descriptions of the latest long and short free-response question formats, tips for answering these questions, and sample questions, answers, and analyses."--Cover, page 4.

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Barron's AP Biology is one of the most popular test preparation guides around and a "must-have" manual for success on the Biology AP Test. In this updated book, test takers will find: Two full-length exams that follow the content and style of the new AP exam All test questions answered and explained An extensive review covering all AP test topics Hundreds of additional multiple-choice and free-response practice questions with answer explanations This manual can be purchased alone, or with an optional CD-ROM that includes two additional practice tests with answers and automatic scoring.

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Genes, which are carried on chromosomes, are the basic physical and functional units of heredity. Genes are specific sequences of bases that encode instructions on how to make proteins. Although genes get a lot of attention, it's the proteins that perform most life functions and even make up the majority of cellular structures. When genes are altered so that the encoded proteins are unable to carry out their normal functions, genetic disorders can result. Gene therapy is an experimental treatment that involves introducing genetic material into a person's cells to fight disease. Gene therapy is being studied in clinical trials for many different types of cancer and for numerous other diseases. The volume presents significant new research results in this promising field.

In the past two decades there have been significant advances made in understanding the cellular and molecular alterations that occur with brain ageing, as well as with our understanding of age-related brain diseases. Ageing is associated with a mid-life decline in many cognitive domains (eg. Attention, working memory, episodic memory) that progresses with advancing age and which may be potentiated by a variety of diseases. However, despite the breadth of attempts to explain it, the underlying basis for age-related memory impairment remains poorly understood. Both normal and "pathological" ageing (as in age-related neurodegenerative disorders such as Alzheimer's disease) may be associated with overlapping and increased levels of "abnormal" pathology, and this may be a potential mediator of cognitive decline in both populations. An emerging hypothesis in this field is that metal ion dys/homeostasis may represent a primary unifying mechanism to explain age- and disease-associated memory impairment – either indirectly

via an effect on disease pathogenesis, or by a direct effect on signaling pathways relevant to learning and memory. There remains a concerted worldwide effort to deliver an effective therapeutic treatment for cognitive decline associated with ageing and/or disease, which is currently an unmet need. There have been numerous clinical trials conducted specifically testing drugs to prevent cognitive decline and progression to dementia, but to date the results have been less than impressive, highlighting the urgent need for a greater understanding of the neurobiological basis of memory impairment in ageing and disease which can then drive the search for effective therapeutics.

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Campbell Biology in Focus Benjamin Cummings

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