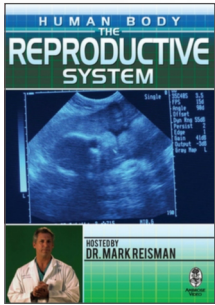


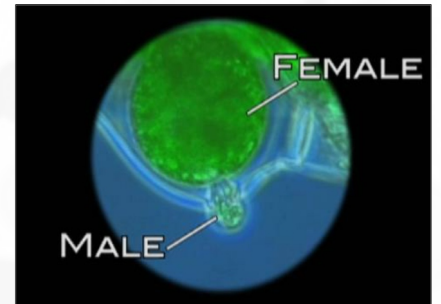
BIOLOGY DVD

Cat.# BM-34D - HUMAN BODY: THE REPRODUCTIVE SYSTEM



Of the body's major systems only the reproductive organs and structures are different in men and women. There is no greater miracle on the planet than the creation of a new life. There is no greater miracle on the planet than the creation of a new life.

Dr. Mark Reisman takes you through each stage of this miracle, from the genetic basis of life, to the development of sex organs, to the formation of sex cells, to conception, to the emergence of the embryo, to the growth sequence of the fetus, and finally to the birth of a new human life.

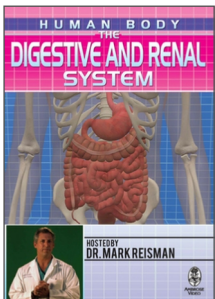


Chapters: Evolution of Sex, Genetics, Morphogenetics and Pregnancy, Female Reproductive Organs, Male Reproductive Organs, Human Mating, Female Puberty, Male Puberty, Sex.

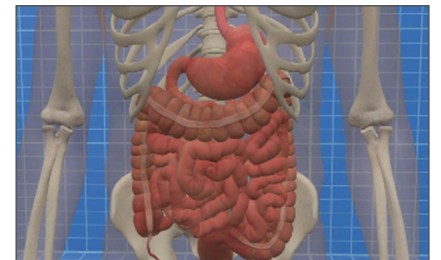
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Cat.# BM-32D - HUMAN BODY: THE DIGESTIVE AND RENAL SYSTEMS



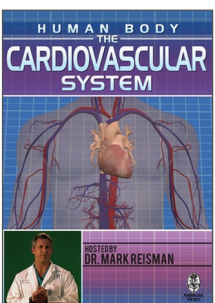
The human body needs to take in food and water found in the environment, and through an almost miraculous sequence of mechanical and chemical processes, it converts that food into nutrients that sustain all the body's activities. The digestive track alone has nine major organs devoted to this process and the renal track three. Dr. Reisman provides a unique look at the anatomy and physiology of the many organs and structures of digestion. Discover the properties of metabolism and nutrition.



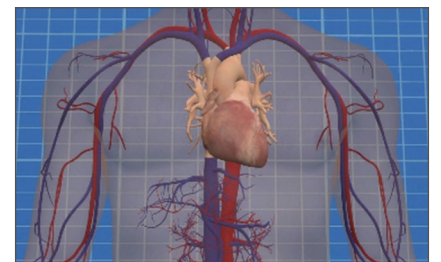
Chapters: Introduction, Food and the Bioweb of Energy, Digestive Organs, Food Processes and the Upper Digestive Track, Lower Digestive Track, Internal Disorders, Anatomy and Physiology of the Liver, Gall Bladder and Pancreas, Renal System, Nutrition.

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Cat.# BM-30D - HUMAN BODY: THE CARDIOVASCULAR SYSTEM



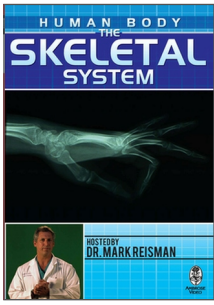
At the centre of the human cardiovascular system is the heart. The human heart is a muscular organ that is a bioengineering marvel. It works flawlessly, 24/7, throughout the lifetime of each individual. See how it delivers blood, a truly miracle substance, to all parts of the human body through a vast network of arteries and veins. Each component of the cardiovascular system's physiology and anatomy is shown in vivid detail.



Chapters: Arteries and Veins, The Heart, Blood, Cardiovascular Anatomy.

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Cat.# BM-6D - HUMAN BODY: THE SKELETAL SYSTEM



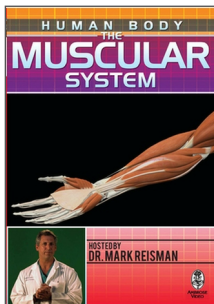
The 206 bones of the human skeleton are a miracle of bioengineering. Lightweight and incredibly strong, our bones give us the ability to walk upright, freeing our hands for precise manipulation of objects. See how the skeleton anchors the muscles and protects our essential organs: the heart, lungs, and brain. Learn how the bones themselves are chemical factories producing our red blood cells.

Chapters: Introduction, Spine, Bones, Bone Composition, Protective Function of Bone, Pelvis Anatomy, Skull, Bone Joints, Cartilage, Bone Diseases, The Living Bone.

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Cat.# BM-18D - HUMAN BODY: THE MUSCULAR SYSTEM



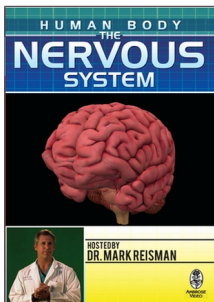
Using the latest in 3-D graphics, medical imaging and cadaver specimens, see the human body's muscular system revealed in ways never seen before.

Chapters: Introduction, Lever Principle, Muscle and Bone Anatomy, Muscle Chemistry, How Muscles Work, Muscular Anatomy and Physiology, Tendons, Ligaments and Fascia, Knee Anatomy, Muscle Disease, Muscles and Exercise, Involuntary Muscles.

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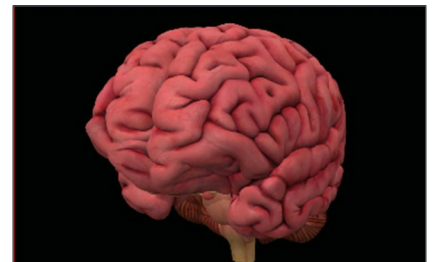
Cat.# BM-20D - HUMAN BODY: THE NERVOUS SYSTEM



The human nervous system starts with the brain, extends down to the spinal cord, and connects to every part of the body through a vast network of fibers known as the peripheral nervous system. At the heart of this system is the neuron, a specialized cell that carries electrical impulses along neural pathways.

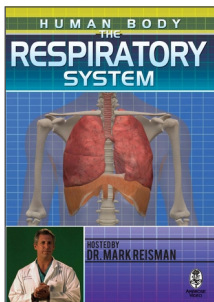
Chapters: Evolution of the Brain, The Three Components of the Nervous System, Brain Anatomy, Primitive Brain, Brain Waves, Nervous System Diseases, Spinal Cord Anatomy.

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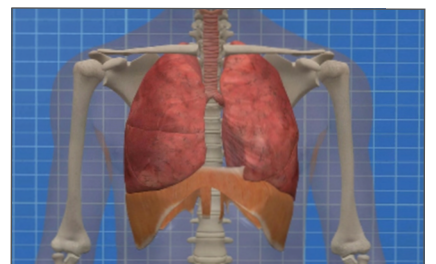
Cat.# BM-31D - HUMAN BODY: THE RESPIRATORY SYSTEM



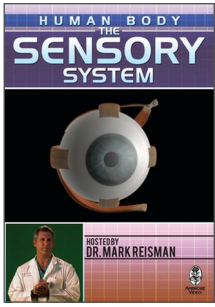
Breathing brings oxygen, found in the air we live in, into a unique set of organs called the lungs. Deep inside the lungs, that oxygen is transferred into the blood system and is used to power all of our muscles, including the muscles that produce breathing. Dr. Mark Reisman takes you first through the structures of the air passageway, the anatomy and physiology of the lungs themselves, and finally reveals the mechanism of the incredible gas exchange between the respiratory and cardiovascular systems. He explains the many human respiratory disorders.

Chapters: Breathing, Air Passageway, Respiratory Structures, Gas Exchange, Exhalation, Respiratory Disease.

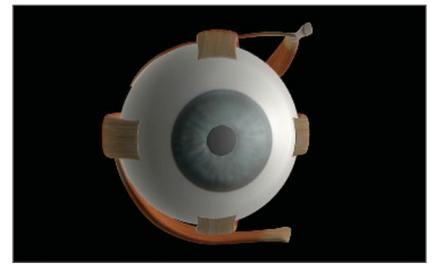
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Cat.# BM-33D - HUMAN BODY: THE SENSORY SYSTEM



Touch, taste, smell, hearing and sight - the human body's five major senses. They are senses that have evolved independently over millions of years but are brought together by our marvelous central nervous system into the most refined way of interacting with the environment of any species on the planet. Dr. Mark Reisman provides a unique look at the anatomy and physiology of each of these sensory systems and shows how the brain uses them to produce what we call being human.



Chapters: Evolution of the Senses, Touch and Skin, Smell, Taste, Hearing, Sight.

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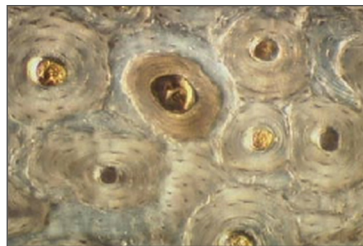
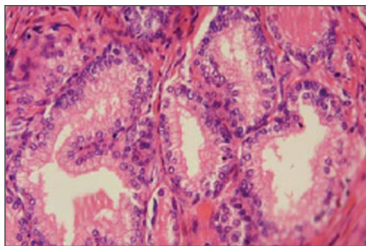
Cat.# BM-4D - VISUALISING HUMAN PHYSIOLOGY - Introduction to the Human



Human beings, like every living organism, are driven by two inherent needs – to survive, and ultimately, to reproduce – that is – to pass our genes on to the future of our species.

To accomplish the goals of survival and reproduction we have inherited bodies finely crafted by evolution so that every one of us, every individual human organism, is an organic super factory – a living machine made up of systems that process fuel, build products, repair damage, expel waste, and defend against invaders.

In this premiere program, the complex physiological systems of the human body are introduced – muscular movement, digestion, circulation, respiration, nerves, glands, immunity, and reproduction. The cellular basis of life, and the



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Cat.# AB-16 - CORE BIOLOGY: MICROBIOLOGY AND GENETICS

Microbiology, which includes genetics, is the story of understanding how the cell works. All life is cellular life ... All animal and plant tissue is made up of cells ... All infectious diseases are caused by invading cells ... Cell division is the process of creating all complex life ... And all genetic material is contained within the cell. The many cellular processes and the remarkable micro-world are presented in stunningly clear micro-videography in *Core Biology: Microbiology and Genetics*.



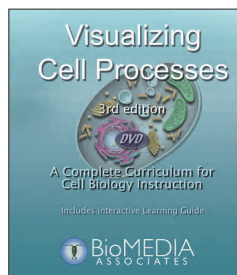
Segments in this program are:

1673 - Anton Leeuwenhoek Describes Microscopic Life, 1838 - The Cellular Basis of Life, 1866 - Mendel's Laws of Inheritance, 1878 - Germ Theory of Disease, 1884 - The Structure of Cells, 1884 - Mitosis and Cell Division, 1905 - Meiosis, 1911 - Genes, 1967 - The Symbiotic Cell.

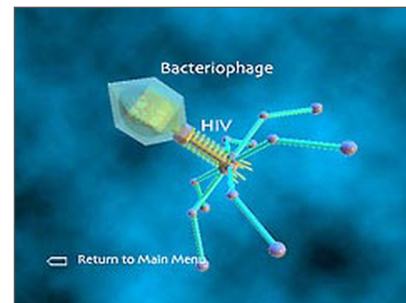


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Cat.# BM-27D - VISUALISING CELL PROCESSES, 3rd EDITION DVD



Visualizing Cell Processes 3rd Edition DVD is a comprehensive program for teaching, learning, and understanding cell processes. The program consists of systematically arranged topics, making it the best tool available for mastering the concepts and vocabulary of cell biology for classroom and self-paced learning. The Interactive Learning Guide on the DVD extends these lessons and covers the AP curriculum. This package includes a bonus DVD containing all five full-play programs (75 minutes). Preview programs at www.msmedia.com.au.

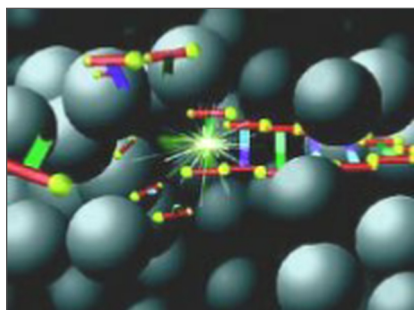


Overview of Living Cells - A Variety of Cells, Cell Organization, The Rise of Bacteria, Cyanobacteria & Oxygen, Eukarya Gets its Start

DNA Structure and Cell Division - Chromosome Condensation, Mitosis, Cytokinesis, Meiosis, Nucleotide Structure & Bonding, Replication Enzymes, Replicating the Strands, The Twisting Problem, Proofreading & Repair

Genetic Code and Protein Synthesis - The Protein Nature of Life, Protein Structure, Transcription, Translation & Protein Synthesis, Gene Regulation in Prokaryotes, Mutations, Introns & Exons

Organic Molecules - Carbon Bonding, Lip Structure, Protein Structure, Nucleic Acid Structure, Carbohydrate Structure



Cell Movement & Transport - The Plasma Membrane, Osmosis, Phagocytosis, Transport Proteins Pinocytosis, Golgi Function, Receptor-Mediated Endocytosis Microtubules, Lysosomes & Digestion Cilia, Motor Proteins

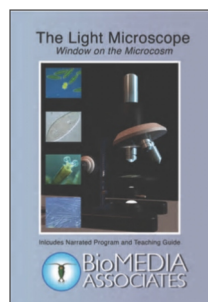
Photosynthesis - Chloroplast Structure, Light Trapping by Chlorophyll, The Light Dependent Reactions, Light Independent Reactions

Cellular Respiration - Glycolysis, Fermentation, Mitochondria, Krebs Cycle, Electron Transport Chain, ATP

Viruses and HIV - T-4 Bacteriophage, HIV Structure & Life Cycle

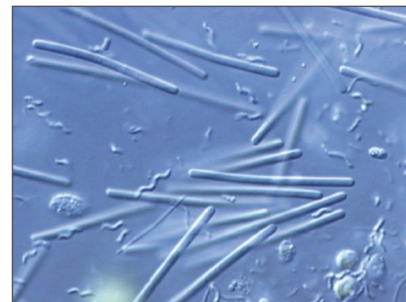
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Cat.# BM-26D - THE LIGHT MICROSCOPE: WINDOW ON THE MICROCOSM



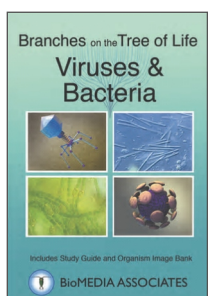
Exploring the microworld can be enhanced using some easily applied techniques that are particularly useful for viewing living organisms. This program illustrates how to manipulate the lens and lighting systems of simple and compound microscopes for the best possible viewing of living organisms and prepared slides. Simple and compound microscopes, the limits of light, functions and techniques are covered in this program. Includes PDF Teaching Guide.

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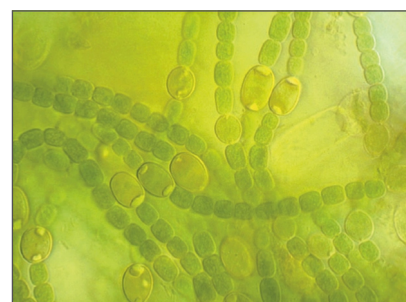
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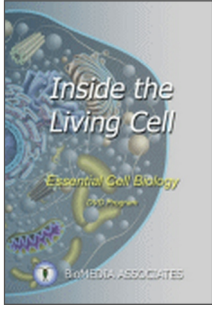
Cat.# BM-29D - VIRUSES AND BACTERIA DVD



This program describes the discovery of viruses and their structure, how viruses are studied, how they infect their hosts, and how they replicate. Details are provided on the T-4 bacteriophage and retroviruses such as HIV. The bacteria section uses compelling microscopy of living bacteria to examine their structure, physiology, and behavior – and the vital roles these microbes play in the biosphere, including oxygen production (cyanobacteria), decomposition, nitrogen fixation, and as helpful symbionts. Includes PDF Teaching Guide and Image Bank.

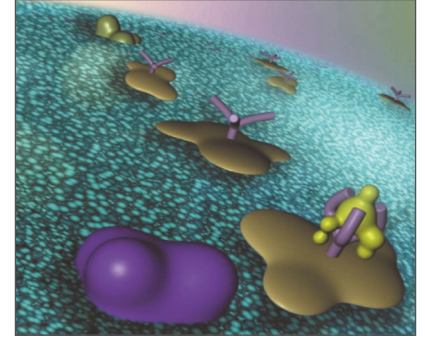
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This highly visual tour of the processes that keep life operating will excite students with a new understanding of these fundamental units of life. Students learn how cells carry out the fundamental processes of life. The menu structure offers over 30 learning chapters that can be discussed and repeated as needed to assure that everyone is up to speed on the content.

Modules can be previewed and purchased individually. See details below.



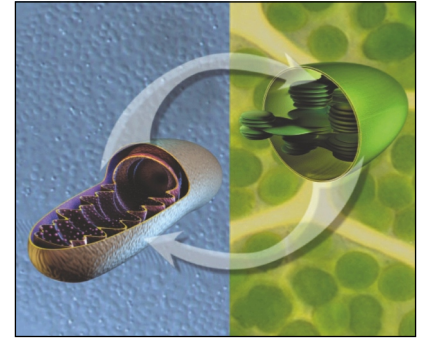
The Cell – Unit of Life - Content: The Discovery of Cells, Cell Structures, Organelle Function, Cell Varieties, The Chemistry of Life

The Outer Envelope - Content: Membrane Structure, Osmosis, Transport Proteins, Active Transport, Cell Eating, Cell Drinking, Receptor Proteins

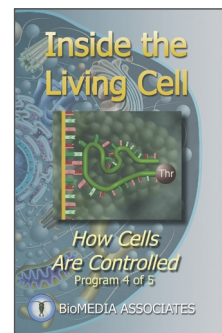
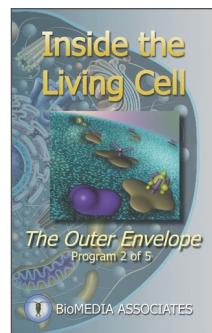
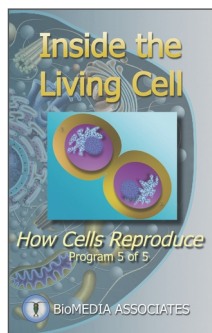
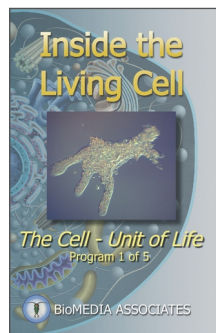
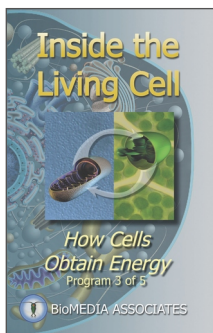
How Cells Obtain Energy - Content: ATP and Chemical Energy, Mitochondria, Aerobic Respiration, Chloroplasts, The Reactions of Photosynthesis

How Cells are Controlled - Content: The Protein Nature of Life, Enzymatic Reactions, Amino Acids and DNA, How Proteins are Built Turning on Genes

How Cells Reproduce - Content: DNA Structure, Replicating DNA Mutations Change the Genetic Code Proofreading and Repair, The Stages of Mitosis



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