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ANATOMY @ DHV@IMI M@V ANATOMY & PHYSIOLOGY AUVIA I WIVI Y & FIJY DIWLWYY







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Topics
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Lessons



Scientist-In-Action Videos

Core Learning Objectives

Identification of the levels of structural organization that make up the human body

Foundation for understanding anatomical structures and their movement

Description of relationships between matter, atoms, and molecules

Understanding metabolism in relation to cellular needs for oxygen and glucose

Listing components of cell membranes and stating their functions

Explanation of the process by which a cell builds proteins using the DNA code





JoVE Core: Anatomy & Physiology

List of Chapters

- 1.1 Introduction To The Human Body
- 1.2 Diagnostic Imaging Techniques
- 1.3 Fundamentals Of Chemistry
- 1.4 Biochemistry Of The Cell
- 1.5 Cells And Their Components
- 1.6 Cell Membrane Structure And Functions
- 1.7 Essential Cellular Processes
- 1.8 Tissues Of The Human Body
- 1.9 The Integumentary System
- 1.10 Bone Tissue And The Skeletal System
- 1.11 The Axial Skeleton
- 1.12 The Appendicular Skeleton
- 1.13 The Joints
- 1.14 Muscle Tissue
- 1.15 The Muscular System
- 1.16 The Nervous System And Nervous Tissue
 - 1.17 Anatomy Of The Central And Peripheral Nervous System
 - 1.18 Functions Of The Central And Peripheral Nervous System
 - 1.19 The Autonomic Nervous System
 - 1.20 The Special Senses
 - 1.21 The Endocrine System
 - 1.22 Blood
 - 1.23 The Heart
 - 1.24 Blood Vessels and Circulation
 - 1.25 The Lymphatic and Immune System
 - 1.26 The Respiratory System
 - 1.27 Digestive System
 - 1.28 Absorption of Nutrients
 - 1.29 The Urinary System
 - 1.30 Fluid, Electrolyte, and Acid-Base Balance
 - 1.31 The Reproductive System



List of Chapters

- 2.1 Scientific Inquiry
- 2.2 Chemistry Of Life
- 2.3 Macromolecules

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2.4 Cell Structure And Function

- 2.5 Membranes And Cellular Transport
- 2.6 Cell Signaling
- 2.7 Metabolism
- 2.8 Cellular Respiration
- 2.9 Photosynthesis
- 2.10 Cell Cycle And Division
- 2.11 Meiosis
- 2.12 Classical And Modern Genetics
- 2.13 DNA Structure And Function
- 2.14 Gene Expression
- 2.15 Biotechnology
- 2.16 Viruses
- 2.17 Nutrition And Digestion
- 2.18 Nervous System
- 2.19 Sensory Systems
- 2.20 Musculoskeletal System
- 2.21 Endocrine System
- 2.22 Circulatory And Pulmonary Systems
- 2.23 Osmoregulation And Excretion
- 2.24 Immune System
- 2.25 Reproduction And Development
- 2.26 Behavior
- 2.27 Ecosystems
- 2.28 Population And Community Ecology
- 2.29 Biodiversity And Conservation
- 2.30 Speciation And Diversity
- 2.31 Natural Selection
- 2.32 Population Genetics
- 2.33 Evolutionary History
- 2.34 Plant Structure, Growth, And Nutrition
- 2.35 Plant Reproduction
- 2.36 Plant Responses To The Environment



Lab Manual: Biology

List of Videos

- 3.1 Scientific Method Concept
- 3.2 Scientific Method Prep
- 3.3 Scientific Method Procedure
- 3.4 Cell Division Concept
- 3.5 Cell Division Prep
- 3.6 Cell Division Procedure

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3.7 Bacterial Transformation - Concept 3.8 Bacterial Transformation - Prep 3.9 Bacterial Transformation - Procedure 3.10 DNA Isolation And Restriction Enzyme Analysis - Concept 3.11 DNA Isolation And Restriction Enzyme Analysis - Prep 3.12 DNA Isolation & Restriction Enzyme Analysis - Procedure 3.13 Energy Dynamics - Concept 3.14 Energy Dynamics - Prep 3.15 Energy Dynamics - Procedure 3.15 Energy Dynamics - Procedure 3.16 Transpiration - Concept 3.17 Transpiration - Prep 3.18 Transpiration - Procedure 3.19 Animal Behavior - Concept 3.20 Animal Behavior - Prep 3.21 Animal Behavior - Procedure 3.22 Enzyme Activity - Concept 3.23 Enzyme Activity - Prep 3.24 Enzyme Activity - Procedure 5.25 Cell Structure - Concept 3.26 Cell Structure - Prep 3.27 Cell Structure - Procedure 3.28 Macromolecules - Concept 3.29 Macromolecules - Prep 3.30 Macromolecules - Procedure 3.31 Natural Selection - Concept 3.32 Natural Selection - Prep 3.33 Natural Selection - Procedure 3.34 Artificial Selection - Concept 3.35 Artificial Selection - Prep 3.36 Artificial Selection - Procedure 3.37 Extinction - Concept 3.38 Extinction - Prep 3.39 Extinction - Procedure 3.40 Measuring Biodiversity - Concept 3.41 Measuring Biodiversity - Prep 3.42 Measuring Biodiversity - Procedure 3.43 Plant Diversity - Concept 3.44 Plant Diversity - Prep 3.45 Plant Diversity - Procedure 3.46 Animal Diversity - Concept 3.47 Animal Diversity - Prep 3.48 Animal Diversity - Procedure

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5.2 Physical Examination II

5.3 Physical Examination III

5.4 Physical Examination IV



Psychology

6.1 Development Psychology 6.2 Neuropsychology

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