



معرفی

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تهیه کننده: ناهید حسینی / تابستان ۱۴۰۱

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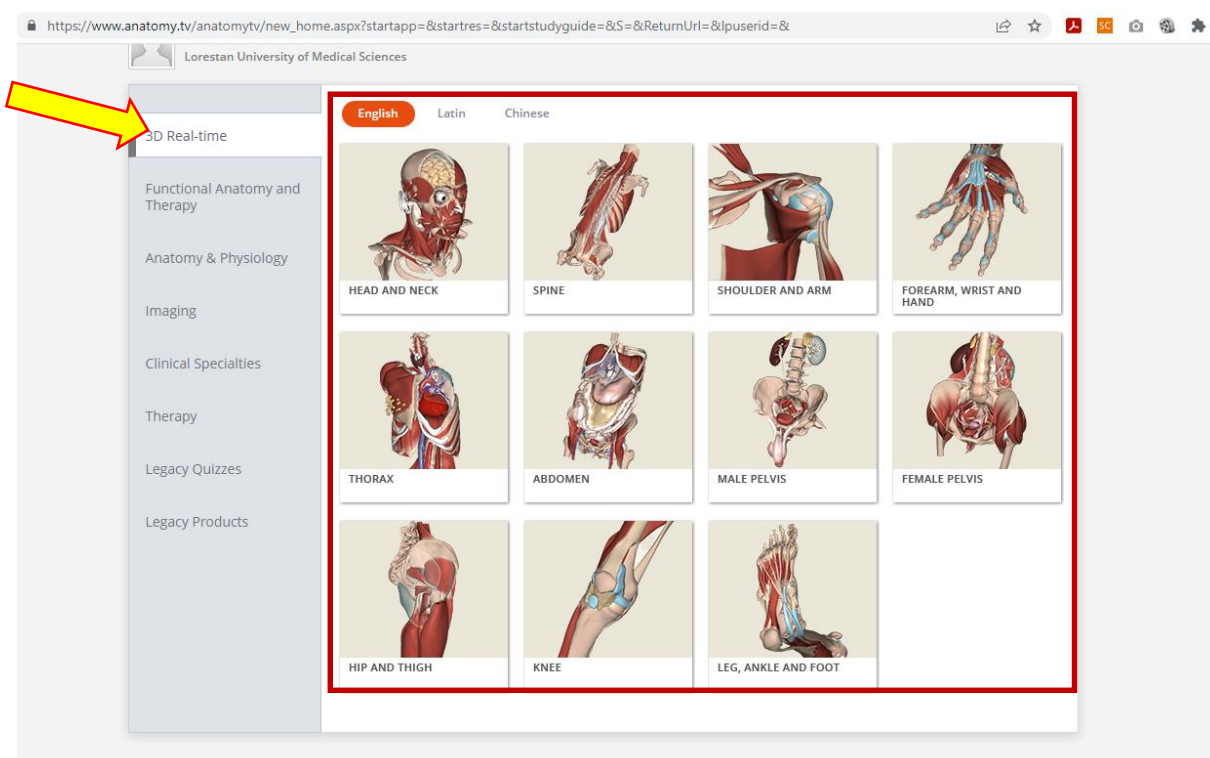
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۱. از طریق ادرس <https://www.anatomy.tv/>

۲. از طریق کتابخانه دیجیتال دانشگاه به ادرس <http://diglib.lums.ac.ir/>

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- با کلیک روی گزینه ی 3D Real-time محتوا در سمت راست ظاهر می شود که هر کدام قابلیت کلیک دارند.
- جهت دسترسی به محتوای کامل، مرورگر سیستم بایستی بروز باشد.



Functional anatomy

- در این بخش قابلیت جستجو در محتوا وجود دارد.

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نتیجه جستجو


Anatomy & Physiology

- این بخش علاوه بر قابلیت جستجو در محتوا، حاوی نمایه الفبایی محتوا نیز هست .



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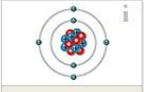






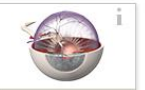


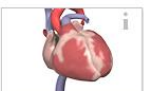



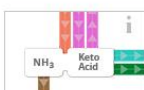




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اطلاعات بیشتر

 BODY PLAN AND ORGANIZATION	 CHEMISTRY	 CELL BIOLOGY	 HISTOLOGY	 INTEGUMENTARY SYSTEM
 SKELETAL SYSTEM	 MUSCULAR SYSTEM	 NERVOUS SYSTEM	 SPECIAL SENSES	 ENDOCRINE SYSTEM
 BLOOD	 CARDIOVASCULAR SYSTEM	 LYMPHATIC SYSTEM AND IMMUNITY	 RESPIRATORY SYSTEM	 DIGESTIVE SYSTEM
 METABOLISM	 URINARY SYSTEM	 FLUID, ELECTROLYTE & ACID-BASE BALANCE	 REPRODUCTIVE SYSTEM	 DEVELOPMENT AND INHERITANCE



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Anatomy & Physiology

Imaging

Clinical Specialties

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Cell Biology

Topics

- Introduction
- Plasma Membrane
- Membrane Transport
- Cytoplasm
- Protein Synthesis and DNA Replication
- Cell Division
- Aging
- Clinical
- Case Studies



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Cell Biology Introduction - Google Chrome

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INTRODUCTION

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What you need to know

On completing this module, you should be able to:

- Explain how the cell is the fundamental unit of life.
- State 10 body cell types and their functions
- Identify the structural components of the plasma membrane.
- Explain the transport of materials through the plasma membrane.
- Examine the components of the cytoplasm and the nucleus and state their functions.
- Relate the organelle composition of a cell to its function.

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CELL BIOLOGY

INTRODUCTION

Cells are the structural and functional units of all living organisms, primarily formed from the elements **carbon, oxygen, hydrogen, and nitrogen**. They not only function as individual units, but also as a part of larger structures, namely tissues and organs, where they communicate with other cells, forming co-ordinated functional units.

New cells are created by **cell division**. Once divided, they **differentiate** into cells specialized for their purpose. These qualities allow them to respond to the body's constantly changing internal and external environments.

The human body is composed of many different types of cell, which are generally classified by size, shape, and function. Cells contain numerous small structures called **organelles**, which carry out specific functions; different cells have different complements of organelles depending on the ultimate function of the cell. There are two main types of cell, **germ cells**, and **somatic cells**; germ cells consist of the sperm in the male, and oocyte in the female, and somatic cells include all other cells in the body.

Some of the main types of cell are described in the table below.

TYPES OF CELL

Somatic cells
Epithelial cell
Epithelial tissue forms many of the linings and coverings in the body. Epithelial cells have many functions, including acting as a protective surface, secretory surface, or as an absorptive surface, regulating the movement of substances into and out of the body. Epithelial cells vary in shape depending on their function and location.

Introduction

Plasma Membrane

Membrane Transport

Cytoplasm

Protein Synthesis and DNA Replication

Aging

Clinical

Case studies




Imaging

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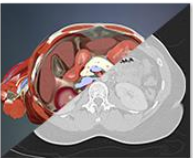
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UPPER LIMB



CT AND MRI: THORAX,
ABDOMEN AND PELVIS