

ANATOMY.TV – ANATOMY AND PHYSIOLOGY

... un percorso semplificato

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a cura di Luisa Banzato

ultimo aggiornamento marzo 2022

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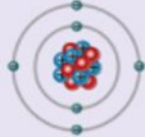


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Anatomy & Physiology

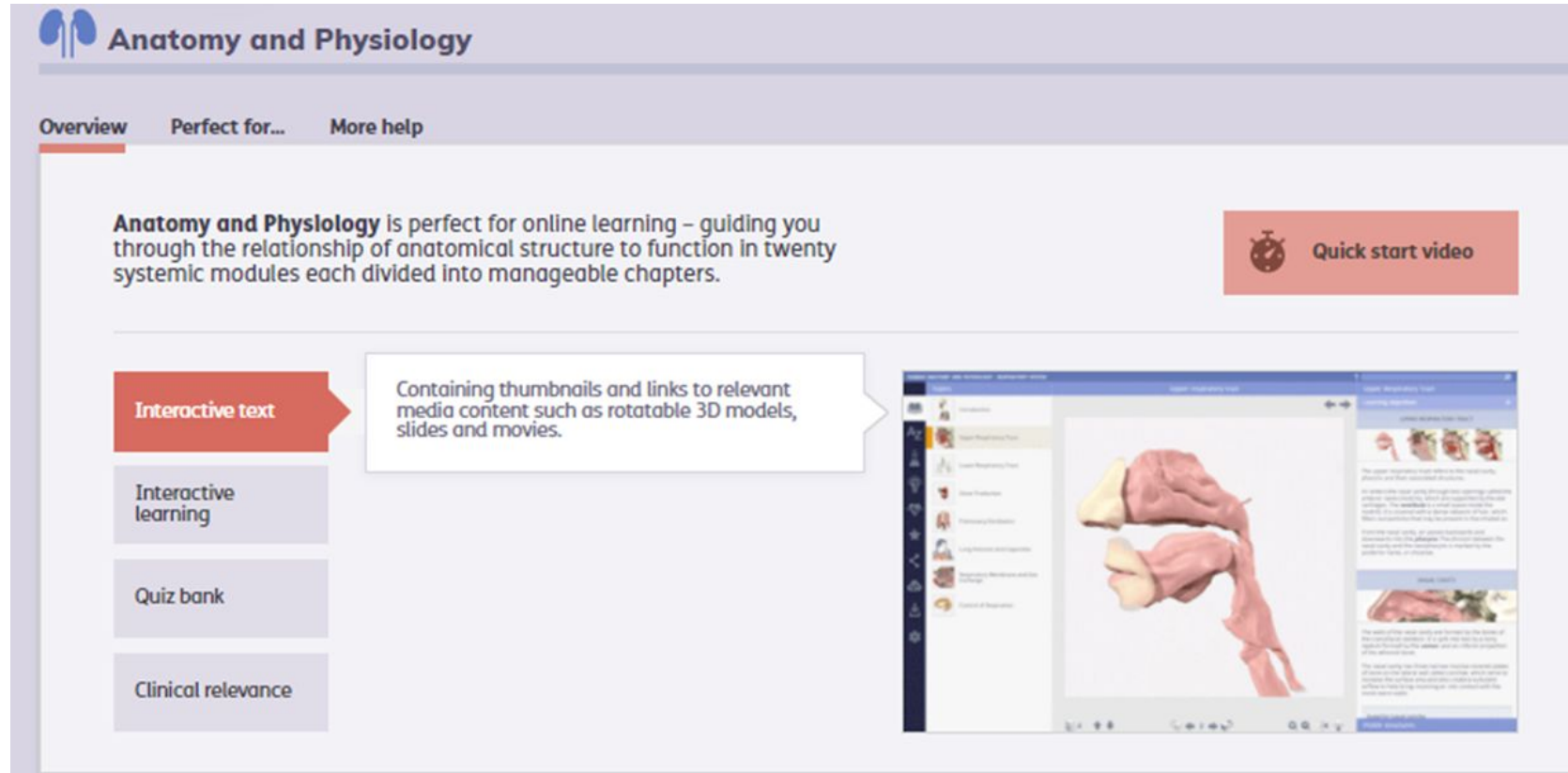



ogni sessione

 **Anatomy and Physiology** 

 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

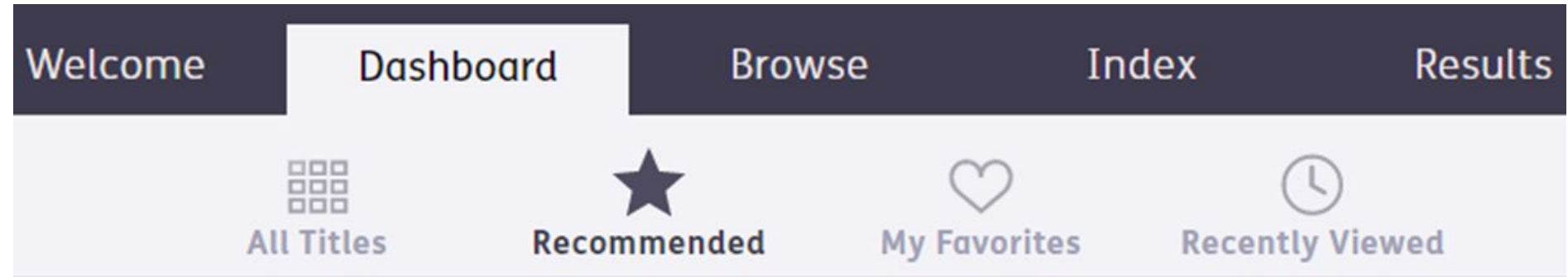
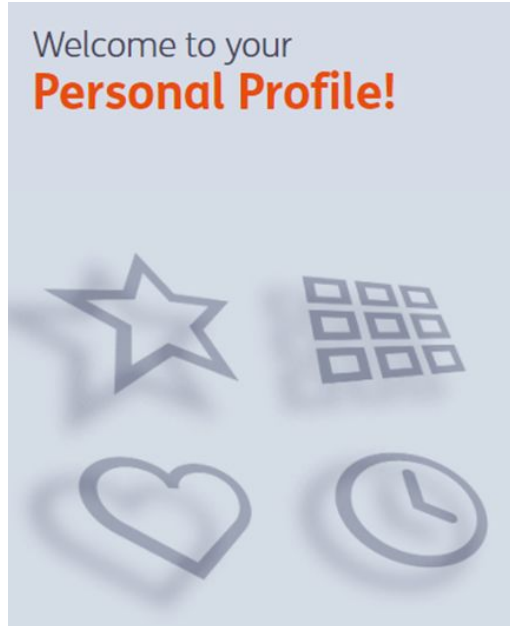
Anatomy & Physiology



Selezionando la  si attiverà un box di guide ed ulteriori informazioni

Creare il proprio profilo

E' possibile creare un account per organizzare delle cartelle personalizzate, dei moduli preferiti e vedere la cronologia di navigazione.



Funzionalità browser



Se appaiono questi messaggi la risorsa non viene consultata in modo corretto.

Cancellare i dati di navigazione
(la cronologia, i cookie, immagini nella cache etc.)

Settings



Scegli il colore con il quale vuoi evidenziare la parte

Scegli lo sfondo

(opzione disponibile solo per alcuni materiali)

HUMAN ANATOMY AND PHYSIOLOGY - CELL BIOLOGY

Settings

Cell

- Hide structure title rollover
- Hide structure title

Highlight color

Background color

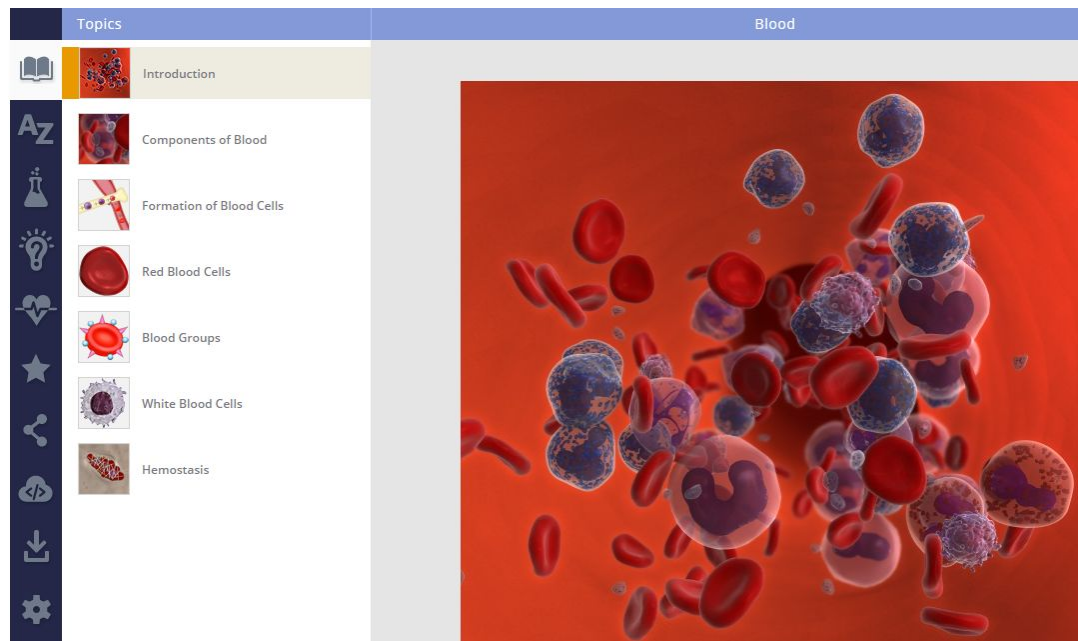
Swipe speed for view

Endoplasmic reticulum: cisterna

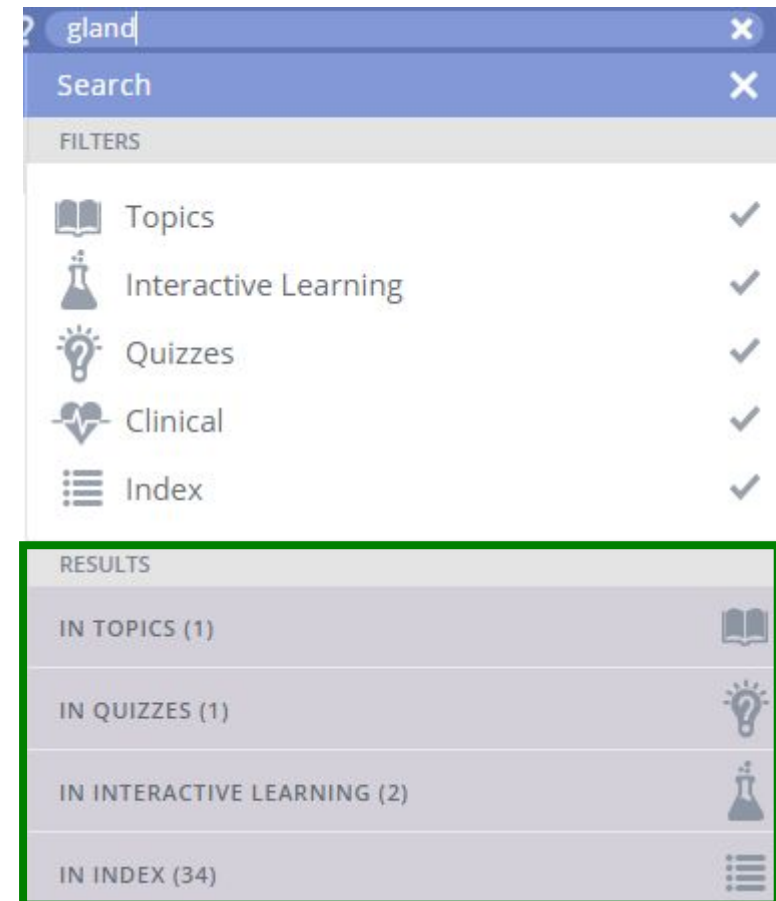
The image shows a software interface for a 3D anatomical model of a cell. On the left is a dark vertical sidebar with icons for a book, 'AZ' index, lightbulb, heart, share, settings (gear), star, and download. The main area is split into a 'Settings' panel on the left and a 'Cell' panel on the right. The 'Settings' panel includes checkboxes for 'Hide structure title rollover' and 'Hide structure title', a 'Highlight color' section with five color swatches (blue, green, purple, yellow, cyan), a 'Background color' section with five swatches (black, dark grey, light grey, white, very light grey), and a 'Swipe speed for view' section with a horizontal slider. The 'Cell' panel shows a 3D cutaway of a cell with various organelles. A callout box points to the endoplasmic reticulum with the text 'Endoplasmic reticulum: cisterna'. Navigation arrows are visible at the top right of the cell view.

Modalità di ricerca

Topics - ogni modulo presenta una serie di argomenti specifici immediatamente identificabili.



Termine libero - in alto sulla destra si apriranno tutte le voci presenti - Results



Interactive learning

The screenshot shows a web-based learning interface. At the top, there is a blue header with the text "Interactive Learning" on the left and "Skeletal muscle fiber" on the right. Below the header is a navigation menu on the left side, featuring a vertical list of icons and text. A blue arrow points to the "Skeletal muscle fiber" option, which is highlighted with a yellow background. The main content area on the right displays a 3D illustration of skeletal muscle fibers, with one fiber highlighted in green and showing internal striations.

Interactive Learning

Skeletal muscle fiber

Anatomy of skeletal muscle fibers

Anatomy of skeletal muscle fibers

Skeletal muscle fiber

Sarcomere

Contractile proteins

Regulatory proteins

Sarcomere

Structural proteins

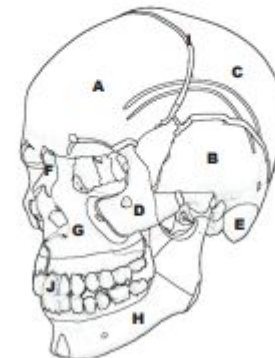
Sliding filament mechanism

Selezionando la voce specifica sar  possibile individuare tutte le opzioni disponibili per quella sezione: quiz, schede interattive e schemi da colorare



COLORING BOOK : INTERMEDIATE LEVEL

First print this page. Color in the structure name in the list below and then the corresponding structure on the model in the same color. Use the associated letters as a guide.



Caratteristiche del modulo

The screenshot displays an interactive educational module interface. On the left is a vertical sidebar menu with icons and text labels for various topics: Introduction, Hormones, Hypothalamus and Pituitary Gland, Thyroid and Parathyroid Glands, Suprarenal Glands, Pancreas, Gonads, Other Endocrine Glands and Tissues (highlighted in yellow), and Stress Response. The main central area is titled "Heart ~ overview" and features a large 3D anatomical model of the heart with its major blood vessels. To the right of the main area is a panel titled "Other Endocrine Glands and Tissues" which contains a "Learning objectives" section with a list of five bullet points. Below the objectives is a section titled "OTHER ENDOCRINE GLANDS AND TISSUES" with small 3D icons of the pineal gland, thymus gland, kidneys, and heart. Further down is a section titled "PINEAL GLAND" and a "Visible structures" section at the bottom. A navigation bar at the very bottom includes a stack icon with the number 5, up and down arrows, a refresh icon, a page number 36, and zoom controls.

Topics

Heart ~ overview

Other Endocrine Glands and Tissues

Learning objectives

On completing this topic, you should be able to:

- Identify organs and tissues that produce hormones in addition to their primary functions.
- Locate the pineal gland and state the functions of melatonin.
- Locate the kidneys and state the functions of the hormones they produce.
- Locate the heart and state the function of atrial natriuretic hormone.
- State the principle action of cholecalciferol, produced by the skin.

OTHER ENDOCRINE GLANDS AND TISSUES

PINEAL GLAND

Visible structures

← Competenze che si possono acquisire grazie al modulo.

← Testo di anatomia e fisiologia con elementi multimediali, immagini e video.

Caratteristiche del modulo

Topics

Heart ~ overview

Other Endocrine Glands and Tissues

Learning objectives

On completing this topic, you should be able to:

- Identify organs and tissues that produce hormones in addition to their primary functions.
- Locate the pineal gland and state the functions

OTHER ENDOCRINE GLANDS AND TISSUES

Other organs and tissues with endocrine functions include the pineal gland, thymus gland.

Visible structures

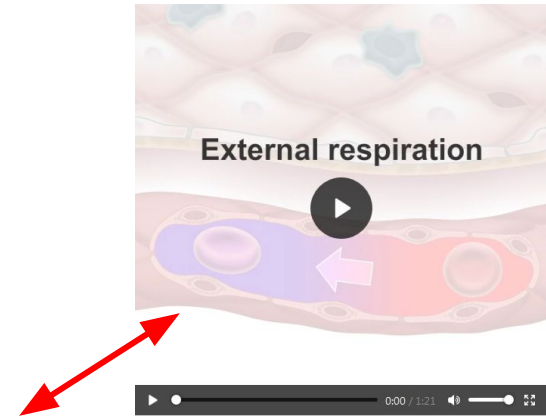
- Anterior cardiac veins
- Arch of aorta
- Ascending aorta
- Great cardiac vein
- Heart: left atrium
- Heart: left auricle
- Heart: left ventricle
- Heart: right atrium
- Heart: right auricle
- Heart: right ventricle

Visibile structures
nella parte bassa di
ogni modulo.

Cliccando sulla barra
è possibile
selezionare la lista
delle opzioni
interattive.

Identificare velocemente la presenza di un video

The screenshot shows an educational interface with a sidebar on the left containing a list of topics: Introduction, Upper Respiratory Tract, Lower Respiratory Tract, Voice Production, Pulmonary Ventilation, Lung Volumes and Capacities, Respiratory Membrane and Gas Exchange (highlighted), and Control of Respiration. The main content area is titled 'Respiratory Membrane and Gas Exchange' and features a large anatomical diagram of an alveolus with a capillary. A red circle highlights a small video icon in the bottom right corner of the diagram. To the right of the diagram, there is a 'Learning objectives' section with a list of goals, followed by a section titled 'EXTERNAL RESPIRATION' with a diagram showing O₂ and CO₂ exchange. Below this is a text block explaining external respiration and a 'Visible structures' section.



I sottotitoli sono presenti in ogni video e sono visibili nella barra sottostante.



Si possono scaricare e vedere nel proprio PC senza dover essere connessi alla rete.

Voci interattive nei moduli

Cliccando sulla [voce interattiva](#) si visualizza il testo collegato.

Si può **salvare** la scheda relativa all'argomento in formato testo o in PDF.

TIP

PDF - opzione utile perché presenta anche le immagini di riferimento.

Topics

Cells of the immune system

Immunological Memory

Learning objectives

On completing this topic, you should be able to:

- Identify the characteristics of the **primary and secondary immune responses**.
- Distinguish between **active and passive immunity**.

IMMUNOLOGICAL MEMORY

When a response is triggered against an antigen, the few B-cells or T-cells that match the antigen undergo **clonal selection**. In doing so, they produce cells which will fight the infection, but also produce memory cells that will remain in the body to provide a much more effective response next time.

PRIMARY AND SECONDARY IMMUNE RESPONSE

Visible structures

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PRIMAL

PRINCIPLES OF IMMUNITY



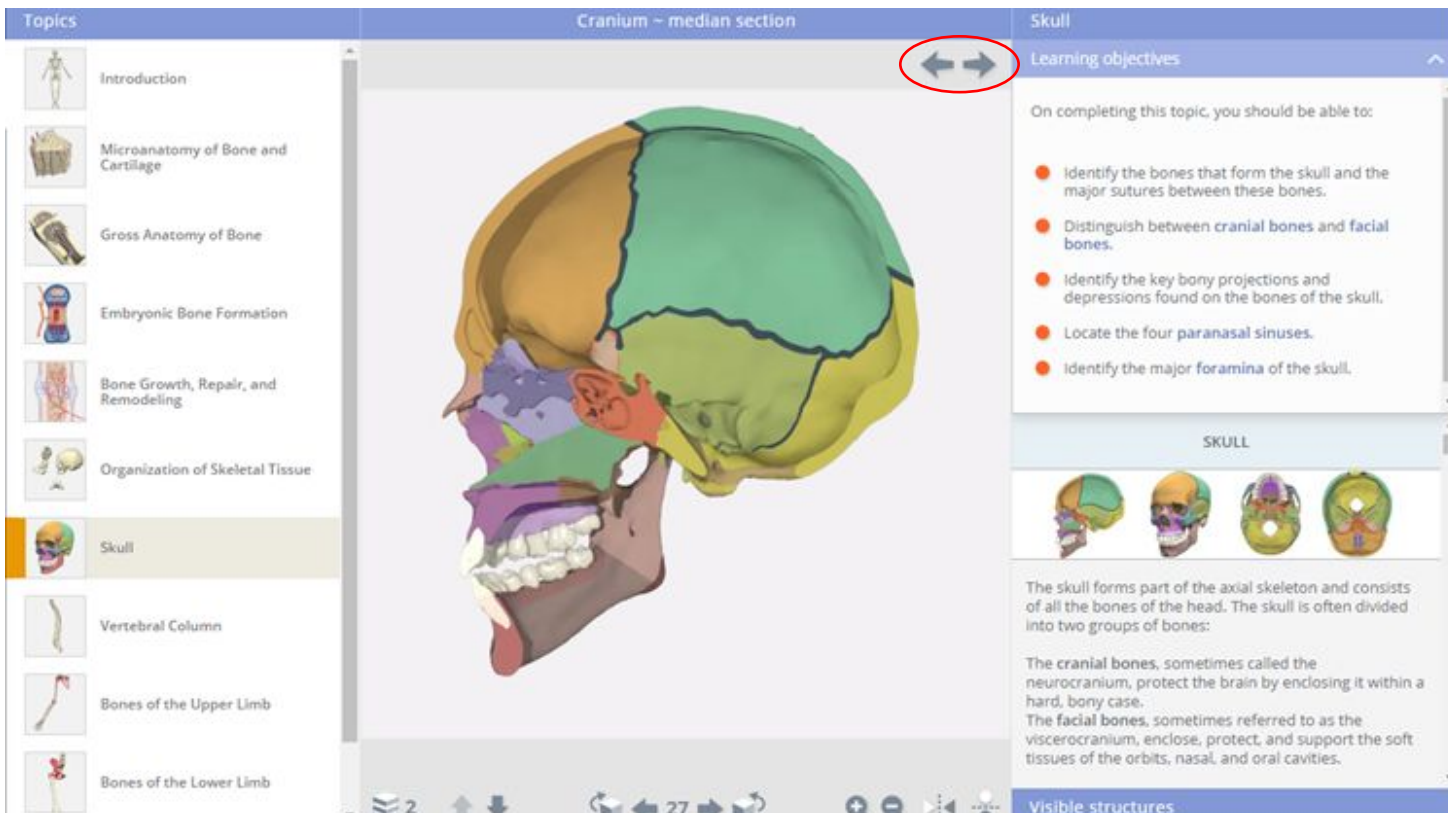
Immunity refers to the body's ability to defend itself against disease and infection. Immunity can be categorized into two different forms: **innate** or **adaptive**.

Innate immunity We are born with innate immunity. It is **non-specific**, which means that the innate cells are not able to distinguish one type of pathogen from another. The principal role of this system is to form the first and second line of defense against pathogens. These defenses include the skin, phagocytic white blood cells, antimicrobial chemicals, the inflammatory response, and the onset of fever.

Adaptive immunity Adaptive (acquired) immunity is the body's ability to recognize and respond to **specific** foreign substances, known as **antigens** (microbes, parts of microbes, or non-microbial substances, such as pollen). When an antigen is introduced into the body, it triggers the production of **antibodies** and white blood cells by the immune system. The response of these cells is to destroy the foreign invaders.

One important feature of the immune system is **self-recognition**. It is vital that both the innate immune system and the adaptive immune system are able to distinguish between **self**, i.e., the cells of the body, and **non-self**, i.e., foreign cells, such as bacteria or cells of the body which have been infected by viruses. In addition to this, the adaptive immune system also exhibits **specificity** and **immunological memory**.

Tasti funzionali per le parti anatomiche



Nella parte bassa dell'immagine tridimensionale le opzioni di visualizzazione:

Layer



Rotate



Zoom



Flip



Per seguire il proprio processo di analisi usare le **freccie**.

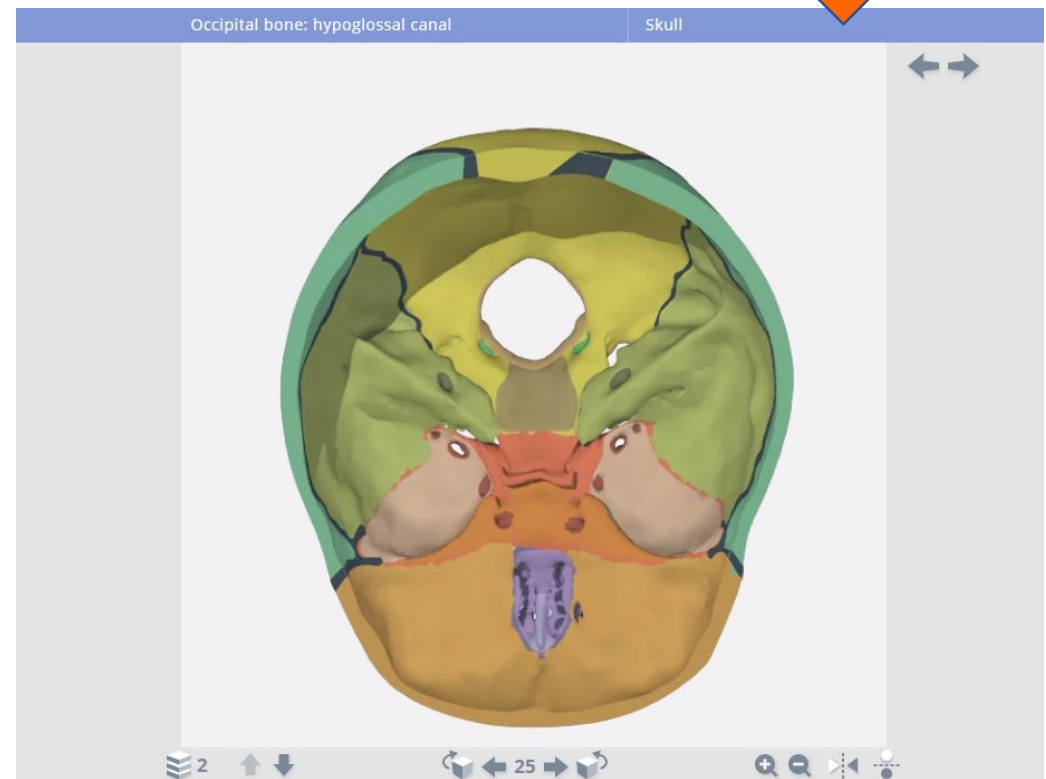
Rimane molto nascosta la barra **Visible structures** in basso dove si trovano tutte le voci. Accade di dimenticarsi che sia presente visto che è di colore azzurro come altre barre.

Zoom

Cliccare sulla barra a destra per far scomparire il testo.



Cliccare sulla barra a destra per uscire dalla modalità a schermo intero.



Pannello di controllo



Quizzes

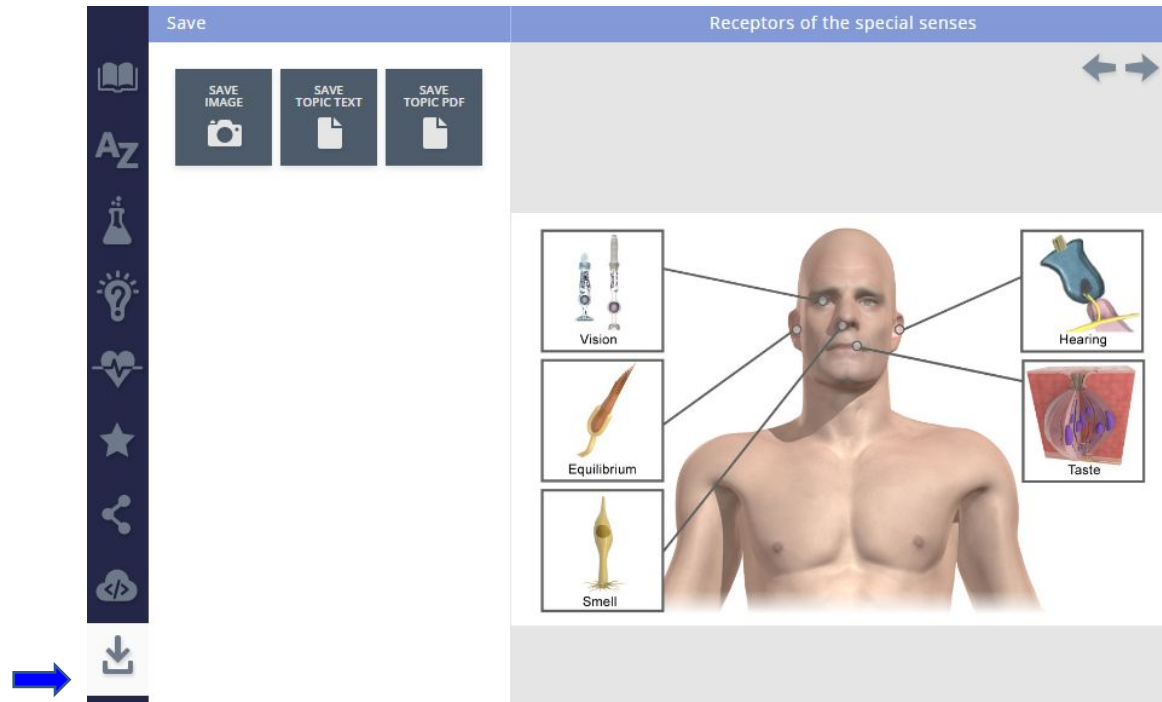


Clinical, Aging and Case Studies – si possono trovare esempi di tipiche condizioni cliniche associate ad un particolare sistema, studiare gli aspetti in età avanzata e valutare il proprio livello di conoscenza attraverso test.



Esiste anche un indice alfabetico che non rappresenta l'opzione più funzionale per fare le ricerche.

Salvataggio dati



L'opzione di salvataggio sia delle immagini che del testo garantisce una migliore visualizzazione del materiale.