







Vesalii Radiology 3D

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"Vesalii" the biggest medical library in the world, aims at assisting universities, students, healthcare professionals, and even patients in receiving quality and accurate medical information. It also provides different tools to easily view, study, and understand human anatomy of the male and female using 3D, virtual reality, and real **Radiology** images. We have the largest medically accurate content developed by our anatomy experts and doctors, offering more than 1,500 histology images, 500,000 landmarks, 20,000 traceable blood vessel and nerve paths, 200,000 **Radiology** images, and over 5 million medical words.





Vesalii Products

Vesalii has created software that mainly focus on the anatomy and histology of the human body in addition to radiology, and DICOM converter for the purpose of learning and harnessing the best tools to facilitate and empower the learning and researching process.

Our Products



Vesalii Anatomy 3D

Explore the comprehensive structure of the female and male human body in a stunning 3D environment, covering every anatomical structure with full medical information for each.

Vesalii Anatomy VR

Explore the comprehensive structure of the female and male human body in an immersive virtual reality environment, covering every anatomical structure with full medical information for each.



Vesalii Dicom Converter 3D

Convert your DICOM files into a 3D model that can be used on your desktop computer or smartphone, allowing you to explore your DICOM images in a 3D environment.

Vesalii Dicom Converter VR

Convert your DICOM files into a 3D model that can be viewed using virtual reality (VR) gear, allowing you to explore your DICOM images in a one-of-a-kind experience you never experience before.



Vesalii Radiology 3D

Learn and understand how to read **Radiology** medical images, control tissue density, and body planes (axial, sagittal, coronal) on a stunning 3D model created from over 1 million **Radiology** images available for you to study.

Vesalii Radiology

Learn and understand how to read **Radiology** medical images, control tissue density, and body planes (axial, sagittal, coronal) on a stunning 3D model viewed using immersive VR technology created from over 1 million **Radiology** images available for you to study.





Button	Function
Female Body	Access female radiology images
Male Body	Access male radiology images
Help	Visit Vesalii support www.Vesalii.com/support
Exit	Exit Vesalii Radiology 3D
Multi Users	Create or join multi-user session, if enabled

Create or join session pages:

Create Session **E** Create a new multi-user session. This option is only available to educators.

- . Server Name: The server name is filled automatically and cannot be changed.
- . **Educator Name:** The Educator Name is also filled automatically based on the registered account.
- **Female:** Click the female button to create a new session featuring the images of the female body.
- . Male: Click the male button to create a new session featuring the images of the male body.



Join Session Z Join a remote session created by another user. This option is available to students and educators.

- . Session Address: Enter the Server Name (IP address) of the user that created the session you wish to join.
- . Join: Click to join and enter the session.
- Student Name: The Student Name is filled automatically, and includes the name of the student and his\her student ID number. This information is taken from the student's registered account. In a multi-user session, the Student Name can only be seen by the educator.

Vesalii Radiolog	y Online Interactive Lecture
<u>.</u>	
Session Address	Enter Session Address
Student Name	Student.name234567891
Second Second	



Default Workspace







Num.	lcon	Name	Function	
1	k	Select	Select a slice to control and use various tools on it	
	+	Highlight	Highlight a single slice from the Radiology images so you can select the desired image easily (Depending on the currently active axis)	
			Select a hide tool to apply to the selected slice	
	Ø	Hide	Nake the selected slice invisible.	
			Hide all slices above the selected slice.	
			Hide all slices below the selected slice.	
			Select a slice or group and the fade action will be applied to all other slices. The slice or group you select will be highlighted in red	
	3	Fade	Silces.	
			Control the level of the red tint applied to the highlighted slice(s). (This option is exclusive to the fade others tool)	
			Fade the selected slice or group.	
			Control the level of transparency applied to the faded slices.	
	***	Isolate	Isolate the selected slice to see it alone in the scene	
			Create a text box that you can write notes in. The sticker points to where you clicked.	
	X	Text Stickers	Remove the sticker.	
			Add an attachment to sticker.	
			Move the sticker to another location.	
	B	Screenshot	Take a screenshot of the current view	
	>	Screen Record	Takes a video recording of the screen as you work on the model and images, showing the tabs opened and tools used. Screen Record will record the sound of the user if they speak, and the text-to-speech voice if activated.	
	\otimes	Measure	Measure the distance between two points on an isolated slice	
		Transform Body	Rotate what is currently in the scene in 3 axes.	
2	9	Single Selection	Select a single slice	
	e	Group Selection	Select a group of slices	
	20~	Group Size	Select a number of Radiology images from a drop-down list to be displayed and use tools on	



Num.	lcon	Name	Function
3	The A group travelae Q. O. X. Apply to All Users 🔮 🔊 Student 🔮 🕞 🔐	ACL	The ACL feature allows the host to control access permissions of other users. (Search for a user in the session by name)
		Q	Remove filtering based on name, i.e., show all names on the list
		O	Refresh: Refresh the users in the session to reveal the name of users that have recently joined the session.
		×	Close: Close the ACL window.
		(apply to all users)	Mute All: Mute sounds coming from all users in the session
		(apply to all users)	Unmute All: Unmute sounds coming from all users in the session.
		(apply to all users)	Grant partial access to all: Grant partial control to all users, i.e., all users can now freely control their own view of the scene and control the mouse cursor, allowing them access to change application settings.
		(apply to all users)	Revoke partial access from all: Revoke partial control from all users with this permission.
		X	Mute User: Mute sound coming from the user's microphone.
		٩	Unmute User: Unmute sound coming from the user's microphone.
			Grant user partial access, i.e., the user can now freely control the view of the scene and control the mouse cursor, allowing the user to change application settings. Other users will not see what a user with partial access is doing.
			Revoke partial access: Revoke partial control from a user.
		; @(Full Access: Grant a user full control over the applications. Other users will now see the mouse cursor of the user with full access along with all actions performed.
] @€	Revoke Full Access: Revoke full control access from a user.
		Bauto anticuro	
		Mute options	Unmute self as it appears to the student.
		<u> </u>	Mute self as it appears to the student.
		ACL	Unmute self as it appears to the educator.
		ACL	Mute self as it appears to the educator.



Num.	Icon	Name	Function
		Navigation Button	Show/Hide navigation ring
	₩ 🏠 🗙	Zooming	Clicking on the 💽 or 🔵 buttons to zoom in/out of the view
ing	<=	Increase/Decrease Camera Depth	Use 🔄 or 💽 buttons to increase or decrease camera depth
Navigation Ring	K 🏷 🛛	Directional Arrows	Used to move the entire 3D view up, down, left, or right
Navig	*	Reset Camera	Used to reset the camera view to the original position
	*	Move	Used to move navigation ring on screen
	×	Close	Used to close current navigation ring
	(]) Clicking on 🙆	will reopen the navigation ring
		Planes of Body	Used to reveal three plane lines that can be moved on the body
		Color Density	Change the color of the Radiology image depending on the contrast of the image
		Image Color	Change the tint color of Radiology images to the desired color
	0	Reset Color	Reset the color of the Radiology images to the default setting
	0	Vesalii Store	Takes you to the Vesalii store to view all Vesalii products
	0	Help Center	Open a window to view the button controls for the application
	٥	Settings	Open settings menu where resolution, language, and sounds can be changed
3.1	Settings CERT Resolution Language Sound Save Path Scene Reset Application 10 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Settings	Open settings menu where resolution, language, save path for screenshots and recordings, sound, and scene options can be changed.



Num.	Icon	Name	Function
3.2	Extings	Resolution	 Resolution Quality: Change resolution quality (Best, High, Med, or Low). Texture Quality: Change the quality of textures (High or Low). Anti Aliasing: Change anti-aliasing option (Best, High, Med, or Low). The higher the setting, the smoother the edges of displayed objects in the scene become. Resolution: Choose between running the application in fullscreen or windowed mode. Change the resolution of the application.
3.3	# Settings (ع) Exit Select Language Deutsch English español français portugués تارينية	Language	Select the language for the application. Language change is application-wide, meaning that it affects all aspects of the application, including menus, bars, panels, and body structure names and description. There are 7 languages available now.
3.4	Sound Nuclei Walance Text to speech	Sound	Music Volume Control background music volume Text-to-speech Control text-to-speech volume.
3.5	Save Path	Save Path	Select the desired save path for screenshots and screen recordings taken through the application.
3.6	Scene Settings Buckground Color	Scene	Background Color Change the color of the scene background. Press ito rest background color to default setting.

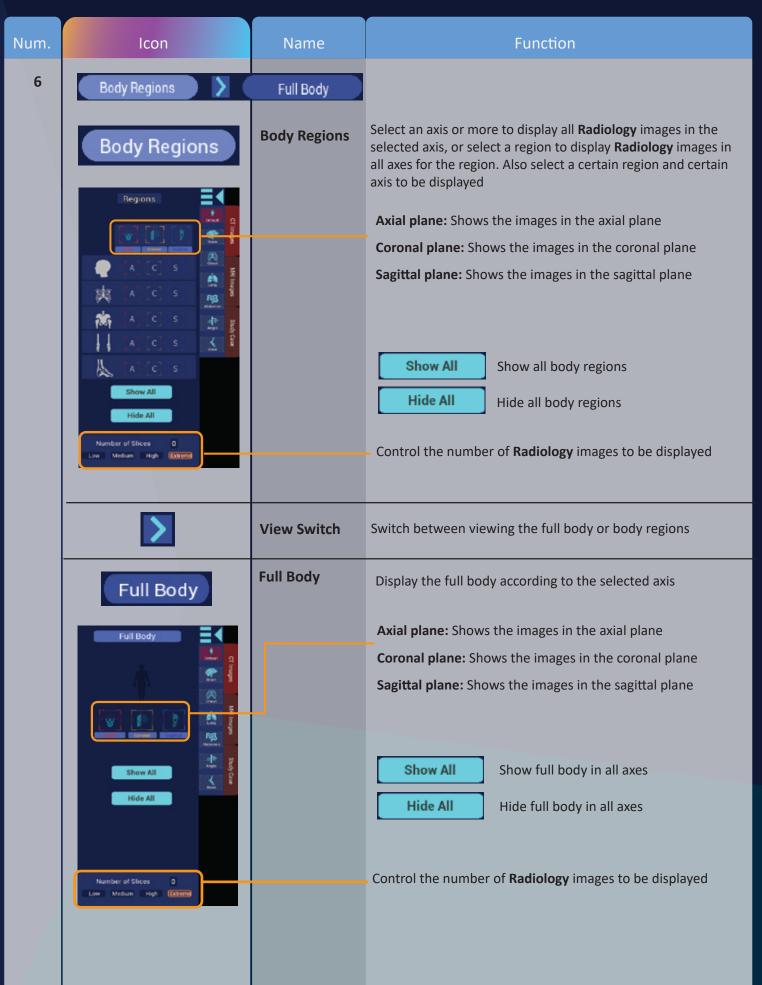


Icon	Name	Function
Settings CERT	Reset	Resets all options to the original setting.
→ Exit	Exit	Close the settings window.
(1)	Disable Isolate	Cancels the isolate action to bring all other Images back in view
(Disable Hide	Disable the hide action applied to all hidden images
۲	Disable Fade	Disable the fade action applied to all faded images
	Disable Measurement	Remove the measuring tool effect from the scene
۲	Clear Labels	Remove all landmark labels
	Clear stickers	Remove all stickers
	Reset Body	Remove the effects of applied tools (Hide, Fade, etc.) and reset the position of the image(s) to default without affecting other selections, such as the region
Climages Study Case	Left-side Panel	Select one of the preset densities for the CT images to better see certain structures based on their density. Choosing a density from here affects the selected region and axis, and the change is reflected in the image information tab. The default density in CT is the same as the Chest
		SettingsResetSettingsSetingsSettingsSetingsSettingsSetingsSettingsSetingsSettingsSetingsSettingsDisable IsolateSettingsDisable Hide Disable FadeSettingsDisable Hide Disable FadeSettingsDisable RadesSettingsClear stickersSettingsReset BodySettings



Num.	Icon	Name	Function
5.2	CT Images MRI Images Study Case	MRI Images	Select one of the preset densities for the MRI images to better see certain structures based on their density. Choosing a density from here affects the selected region and axis, and the change is reflected in the image information tab. The default density in MRI is the same as 160-320
5.3	Clunger Value 1 1	Study Case	See a radiological image of a case study. First select an imaging technique (MRA, MRV, or MRCP), then select a region from the dotted model and the image of the case study will appear in the scene. You can rotate the image of the case study using the slider at the top of the scene.







Num.	Icon	Name	Function
7	Active Image Hide Opti	ons Help Ima	ge
	Active Image	Active Image	■ 実務 版 <mark> ●</mark> [1] [) Image <u>226</u> (*) <
			Determine the desired region and axis, and select any slice using the slider (When in full body view, the option to select the region is disabled)
			Image 226 The number of the selected Radiology image
			Show or hide the slider
	Hide Options	Hide Options	
			Determine the desired region and axis, and hide the images using the two sliders (When in full body view, the option to select the region is disabled)
			Reset Region Disable the hide action in the active region
			Reset All Reset All: Disable the hide action on all regions and axis
	Help Image	Help	● 共前 L L [1] [1] [1] / (2013) (
			Reveals a bar that allows you to select a region, an axis, and the number of images to appear in the scene using a slider. (When an axis for any region is active from the main regions tab, it will be disabled here).
			Pin: Pin down the current view to the scene
			Resource Region Removes the pins on the selected region
			Reset All Removes the pins on all regions
8	Information Pick Slice Contrast V	Right-side Panel	Contains the tabs for Information, Pick Slice, and adjusting the Contrast of the radiology images.



Num.	lcon	Name	Function
8.1	Image Information	Information	Show information related to the selected Radiology image, such as number of image, gender, region, axis, and density
8.2	Silce Number	Pick Slice	Select the slice to apply different actions to it, such as revealing its landmarks and changing its density. Hide all slices above the selected image
	Show Landrunks Image Densities	2	Hide all slices below the selected image
		(Undo the hiding action
		tt è	Isolate the selected slice to see it alone in the scene
		Image Densities	Click to open the image in the 2D window. (You can click the image itself for the same effect).
	Image: state	CT images	Change the density of the selected CT image to make structures with a certain density more visible Selecting a density from here will only affect the image selected through the pick slice function and not whole region or axis.
	Show Landmarks Image Densities Integration 160-320 320-640	MRI	Change the density of the selected MRI image to make structures with a certain density more visible Selecting a density from here will only affect the image selected through the pick slice function and not whole region or axis.



Num.	Icon	Name	Function
		Show Landmarks	Show the landmarks on the parts visible on the selected image; this option is available only when you isolate a slice. Landmarks reveal the exact location of parts in the slice with their names.
	Right Temporal Bone	Search box	Filter the landmarks appearing in this list by typing a keyword
	O Cccipital Bone		Turns off the lights of the selected landmarks and unselects them from the list.
		•	Show/hide landmark on slice
	• •	0	Show information for the selected landmark
	æ	📫 🔹	Activate text-to-speech
			Click on the icon of the system you desire to reveal landmarks for only the system you selected.
		1 1 1 1 1	Note: Clicking on a landmark on the image will highlight the landmark on the image and in the list, and it will also reveal its label.
10	Carrol 20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The name of the axis of the secondary slot, which is coronal in this case
			Maximize the image in the secondary slot, i.e., the image in this axis goes to the main slot and the image that was in the main slot goes to the secondary slot
			Hide the secondary axis slot
	< >		Control the level of the main image by moving this slider up or down.
		()	Move through the image sequence for the axis.
		5	Rotate the image to the left
11		C	Rotate the image to the right
	9600		Re-center the image, retaining any changes to scale and rotation
		0	Reset its rotation, zoom, and position
		>	Move to the next image in the sequence.
		<	Move to the previous image in the sequence.

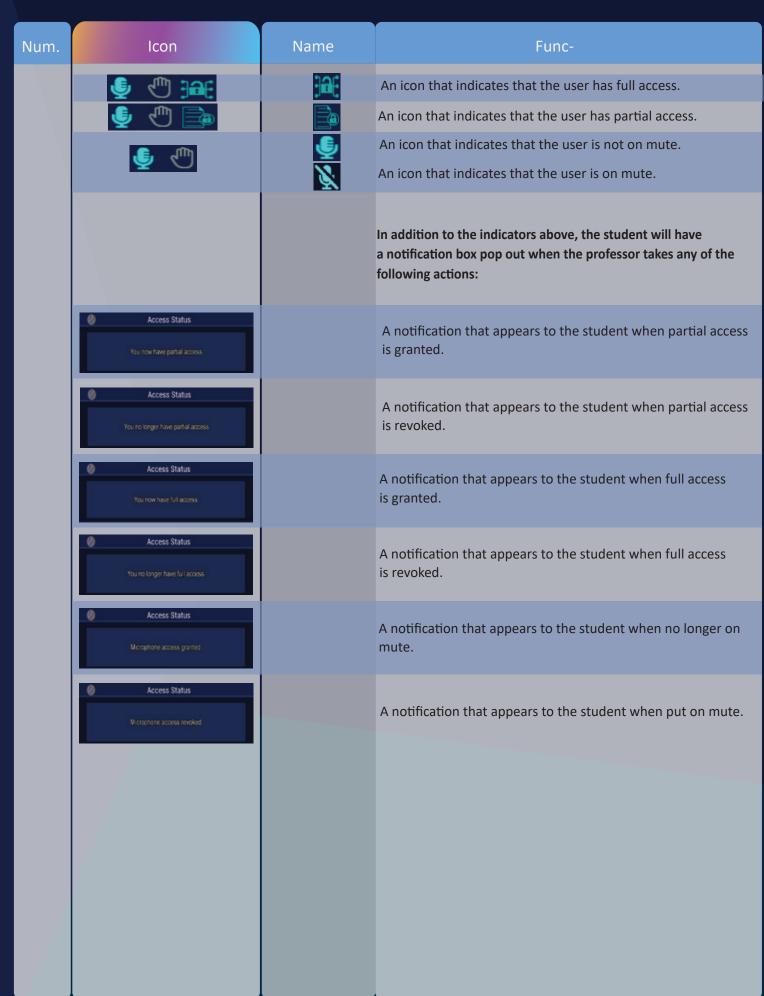


Num.	Icon	Name	Function
12	Bone Image Number	H V Axial Image Number 245	Switch between the vertical and horizontal slider. Switch to the next density Switch to the previous density The axis of the image in the main slot, which is axial in this case The number of the image in the main slot, which is 245 in this case
	Q 	Q	Zoom in on the image Zoom out of the image
13	a	×	(Move the knob on the slider up to zoom in, and move it down to zoom out) maximize the main image slot. This will remove the secondary axes slots and the main slot will take up the entire window. Close the 2D window.
8.3	Contrast	Contrast	 Contrast: Change the contrast of the images Color: Change the color of the Radiology images depending on the contrast of the images Bones: Increase or decrease the visibility of bones by altering the yellow color in the images. Muscles: Increase or decrease the visibility of muscles by altering the red color in the images. Cardio: Increase or decrease the visibility of blood vessels by altering the blue color in the images. Organs: Increase or decrease the visibility of the organs by altering the green color in the images. Note: The slide for these densities is active only if the Color
		Reset All 📀	slide has been moved from its default setting Resets all sliders to the default setting



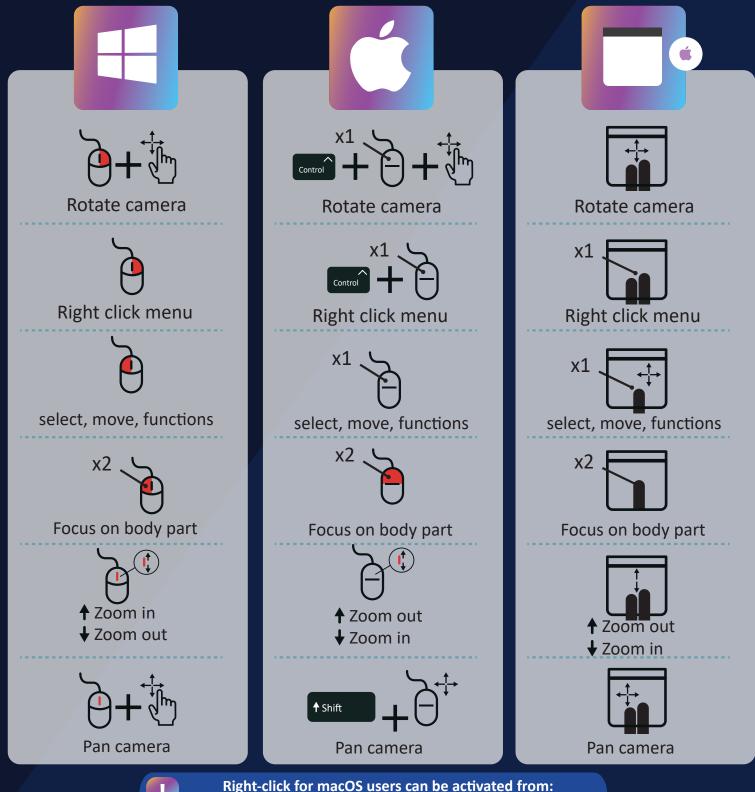
Num.	lcon	Name	Function
9	System Notifications	System Notification	This is the notification bar as it appears to the professor. The first notification the professor receives in a session will expand the notification bar into a tab. Pressing the www will minimize the tab back into a bar. All subsequent notifications in the session will cause the notification bar to change color to red. Pressing the www button on the notification bar will expand it and remove its red color Shows the number of notifications the educator has not seen.
			Notifications appearing on the notification bar include:
	Sudent is leaving the session		A notification that appears to the professor when a student leaves the session.
	System textilizations 🔹 🔍		A notification that appears to the professor when a student joins the session.
	System textificatione		A notification that appears to the professor when a student requests access.
			Pressing the button next to a student's name will unmute the student and enable their microphone button, allowing the student access to unmute and mute themselves freely until the student is muted again by the professor. Pressing the button next to a student's name will remove the student from the list without giving them access to speak, i.e., nothing changes and the student's microphone remains muted.
			When users are muted by the professor, the users cannot unmute themselves because the microphone icon will be disabled. In this case, the Access Request icon becomes active for the user; pressing the Access Request icon will send a notification to the professor that the user is requesting access to speak.







Mouse + Mac touchpad Controls



System Preferences > Mouse > Secondary click activation