

# Enhancing Biology Education with Interactive Tools

Presented by

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Academic Consultant

CIET-NCERT

# e-CONTENT?

Refers to any type of digital content that can be accessed and consumed electronically. This includes use of Multimedia.

## Development of E content

Process of creating, providing and distributing e content

# BioRender

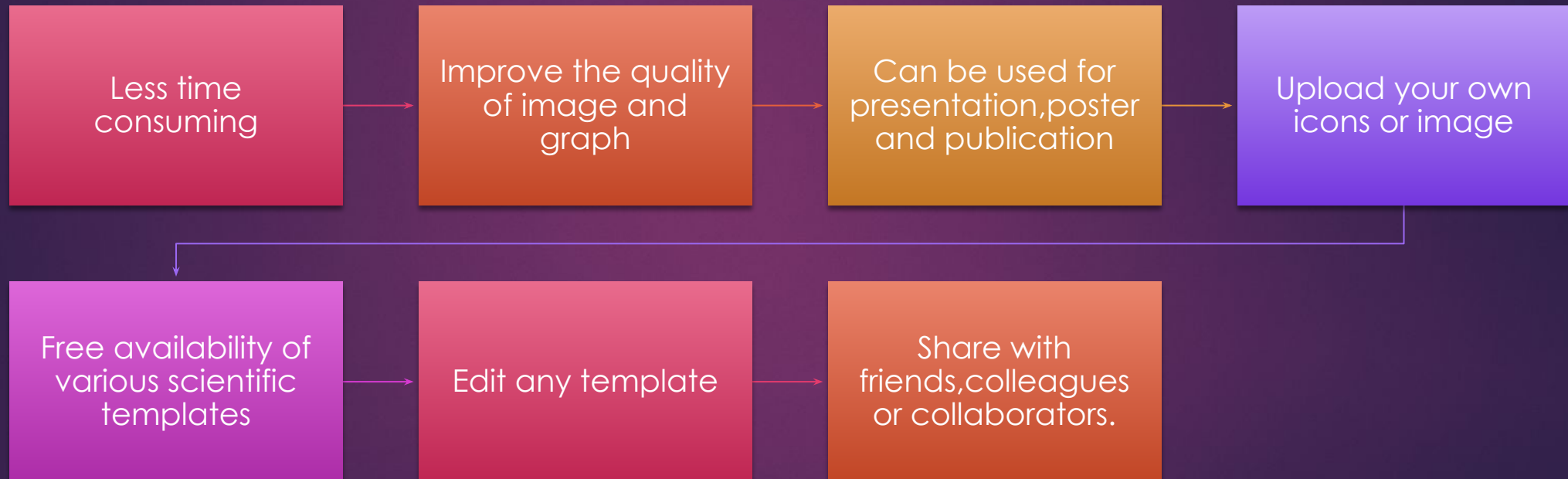
- ▶ **Why BioRender ?**

**BioRender is a platform that helps scientists and teachers to create and share beautiful, professional scientific figures.**

- ▶ **Is BioRender free?**

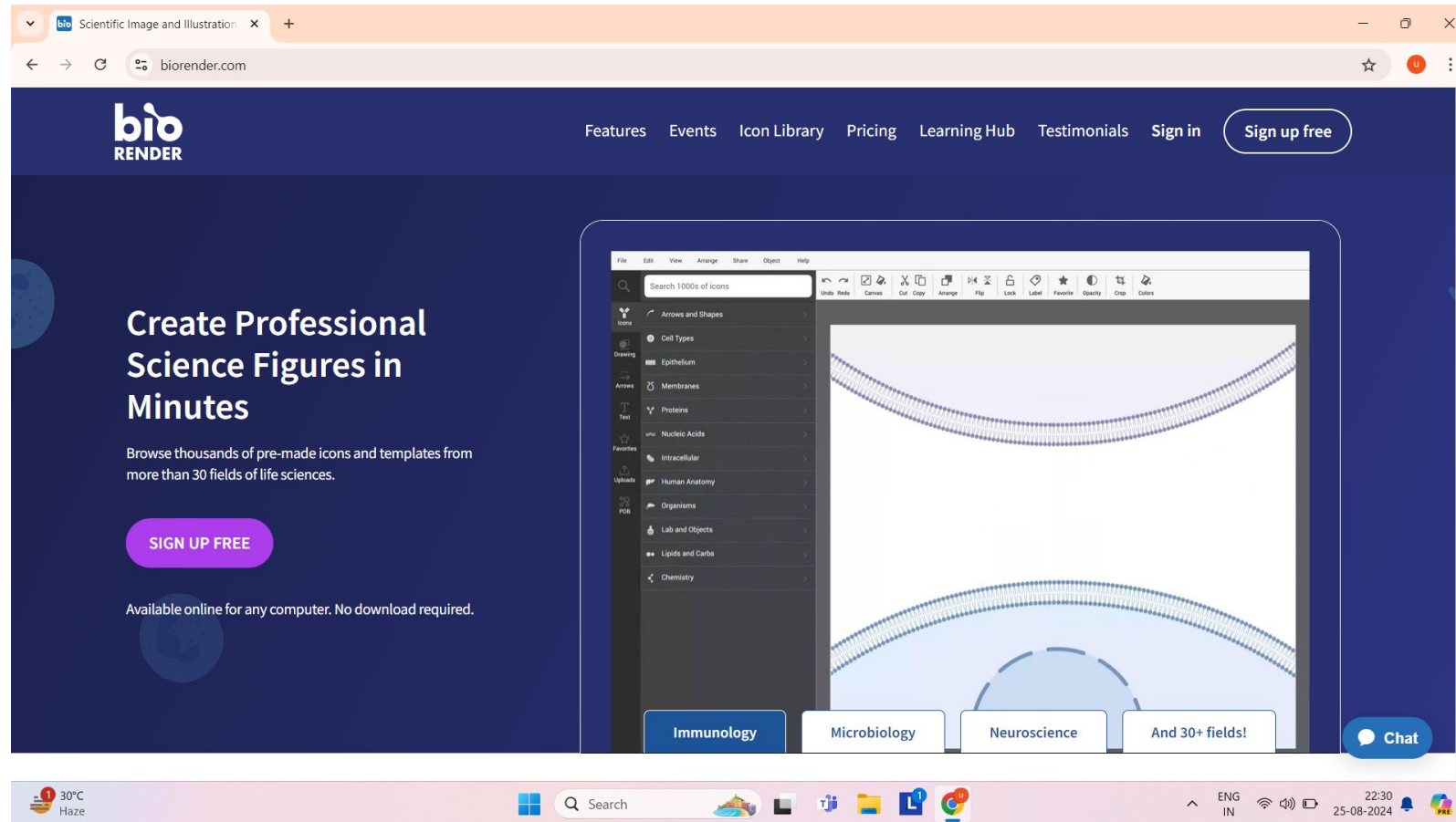
The basic version of bioRender is free .In the free version you can upload your own image or icons, save 5 image ,download your image ,live customer support and you can use it for educational purpose.

# Benefits of BioRender



How to access  
BioRender

▶ [www.Biorender.com](http://www.Biorender.com)



## Sign up for BioRender

Sign up free. Create beautiful figures.

First name

Last name

Company/Institutional Email

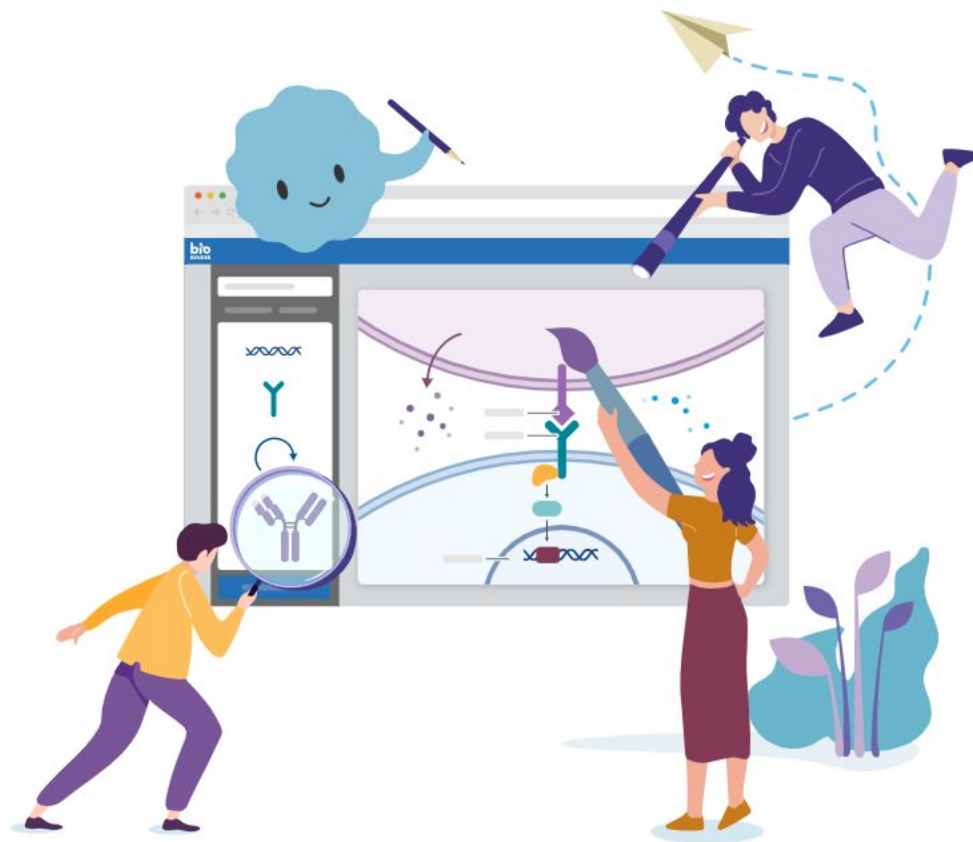
Password

12-72 characters

Sign up with SSO

By continuing, you agree with our [Terms & Conditions](#) and [Privacy Policy](#).

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## Welcome to BioRender!

What type of organization do you belong to?

Choose organization type

What's your role?

Choose role

Institution name

Enter your institution or company name

Next



Help



## Personalize your experience

Primary area of research

Search area of research

Secondary areas of research (max 3)

Search areas of research

Where did you hear about BioRender?

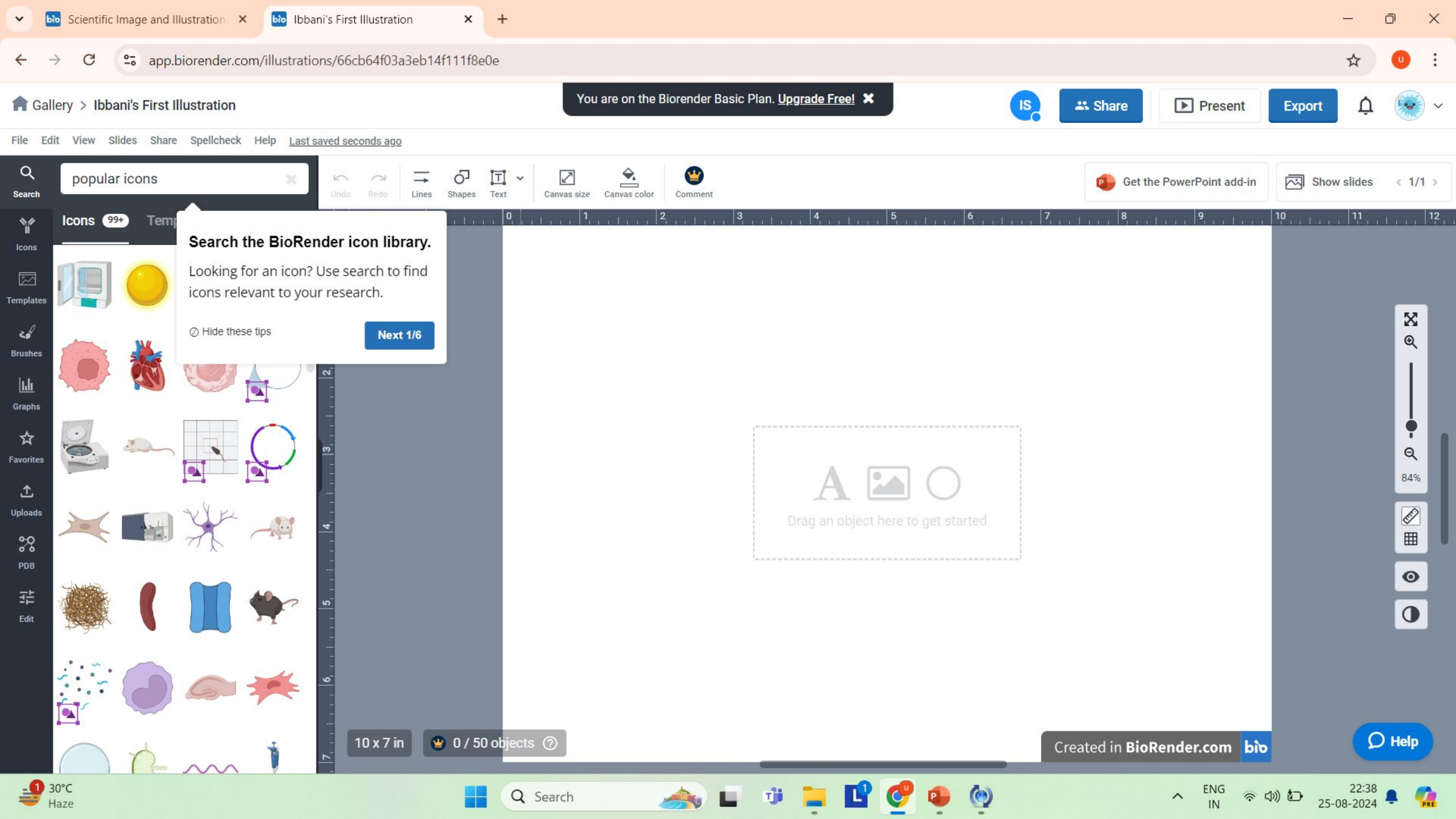
Choose

Start illustrating!

Skip



Help



# Horizontal Tabs-File

File Edit View Slides Share Spellcheck Help Last saved 1 minute ago

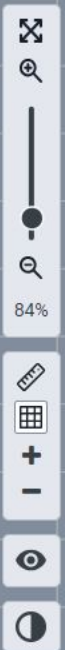
- New
- Save Ctrl+S
- Export
- Make A Copy
- Download Publication License
- Generate Citation
- Version History
- Exit

- Graphs
- Lab and Objects
- Species
- Agriculture
- Membranes
- Cell Structures
- Epithelium
- Lipids and Carbs
- Chemistry
- Graphs and Symbols

Undo Redo Lines Shapes Text Canvas size Canvas color Comment

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Show slides < 1/1 >



10 x 7 in 0 / 50 objects

Created in BioRender.com bio

Help

# Horizontal Tabs-Edit

File Edit View Slides Share Spellcheck Help Last saved seconds ago

Undo Ctrl+Z

Redo Ctrl+Shift+Z, Ctrl+Y

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Paste In Place Ctrl+Shift+V

Select All Ctrl+A

Select All Text

Select All Lines And Arrows

Select All Lines, Arrows And Text

Select All Connector Lines And Arrows

Select All Icons

Canvas Size

Canvas Color

Cell Structures

Epithelium

Lipids and Carbs

Chemistry

Graphs and Symbols

Undo Redo Lines Shapes Text Canvas size Canvas color Comment

Drag an object here to get started

# Horizontal Tabs-View

File Edit **View** Slides Share Spellcheck Help Saving changes...

Search

Icons

Templates

Brushes

Graphs

Favorites

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PDB

Edit

View In Grayscale Alt+G

Preview

Zoom In

Zoom Out

Reset Zoom

Keyboard Shortcuts

Show Ruler

Grid Lines >

Hide Guidelines

☒ Enable Alignment

Undo Redo

Lines Shapes Text

Canvas size Canvas color

Comment

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A [Image Icon] [Circle Icon]

# Horizontal Tabs-Slides

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Brushes

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Uploads

PDB

Edit

Agriculture

Membranes

Cell Structures

Epithelium

Lipids and Carbs

Chemistry

Graphs and Symbols

+ Add New Slide

Cut Slide Ctrl+X

Copy Slide Ctrl+C

Paste Slide Ctrl+V

Duplicate Slide Ctrl+D

Delete Slide

Move Slide >

Present >

Collapse Slides Menu

Expand Slides Menu

Show Slides Panel

Undo Redo

Lines Shapes Text

Canvas size Canvas color Comment

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# Horizontal Tabs-Share

File Edit View Slides **Share** Spellcheck Help [Last saved 2 minutes ago](#)

Search icons

Search

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Brushes

Graphs

Favorites

Uploads

PDB

Edit

Cell Types

Proteins

Nucleic Acids

Human Anatomy

Lab and Objects

Species

Agriculture

Membranes

Cell Structures

Epithelium

Lipids and Carbs

Chemistry

Share

Add To Community

Send A Copy

Lines

Shapes

Text

Canvas size

Canvas color


Comment

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# Horizontal Tabs-Spellcheck


File Edit View Slides Share Spellcheck Help Last saved 3 minutes ago




Search




Icons




Templates




Brushes




Graphs




Favorites



Uploads



PDB



Edit

Search icons

Open Personal Dictionary

Enable Spellcheck

Shapes

Text

Canvas size

Canvas color

Comment

Cell Types

Proteins

Nucleic Acids

Human Anatomy

Lab and Objects

Species


Agriculture


Membranes


Cell Structures

Epithelium

Lipids and Carbs







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# Horizontal Tab Icons

Share

Present

Export



RED

SHAPES

Canvas Size

Show Slides

File Edit View Slides Share Spellcheck Help Last saved 6 min ago

Search icons and templates



Undo

Redo

Lines

Shapes

Text

Canvas size

Canvas color

Comment

Get the PowerPoint add-in

Show slides

< 1/1 >

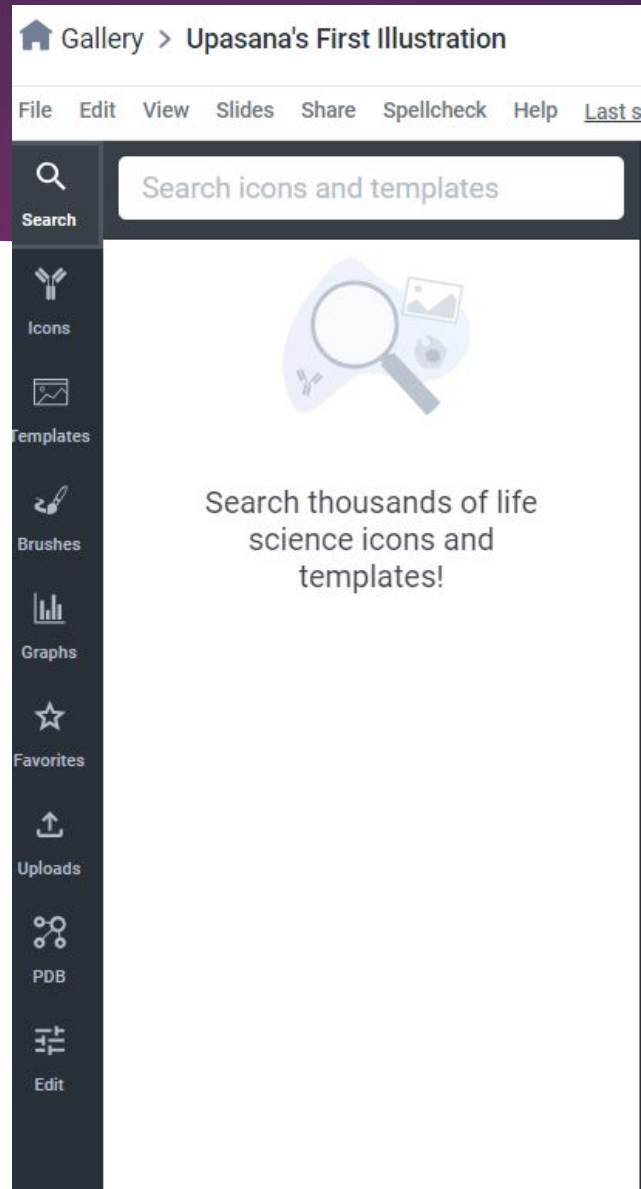
UND

LINES

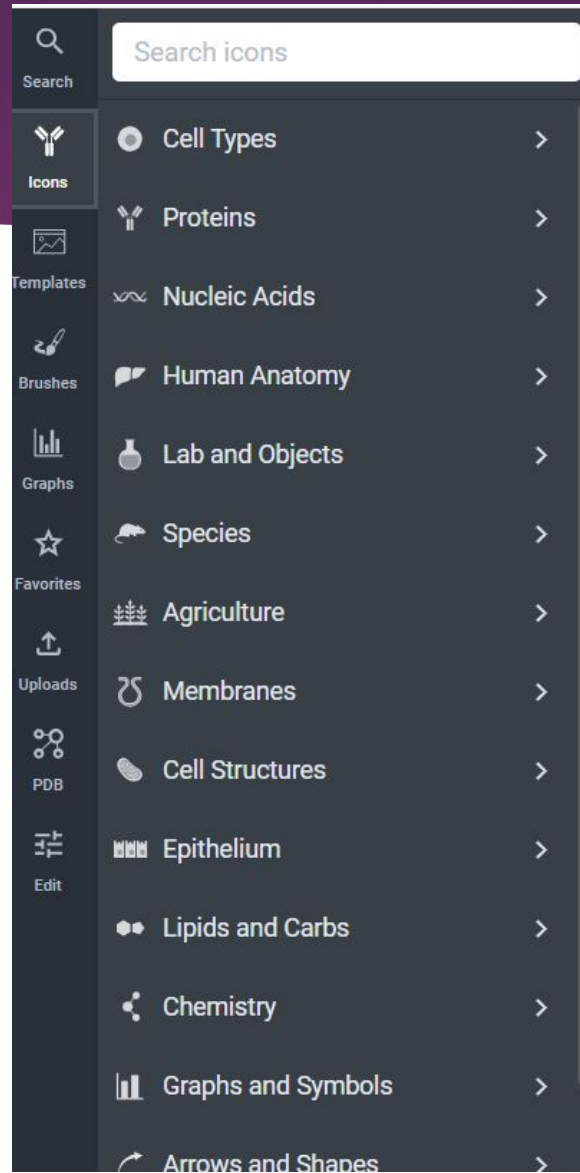
TEXT

Canvas  
Color

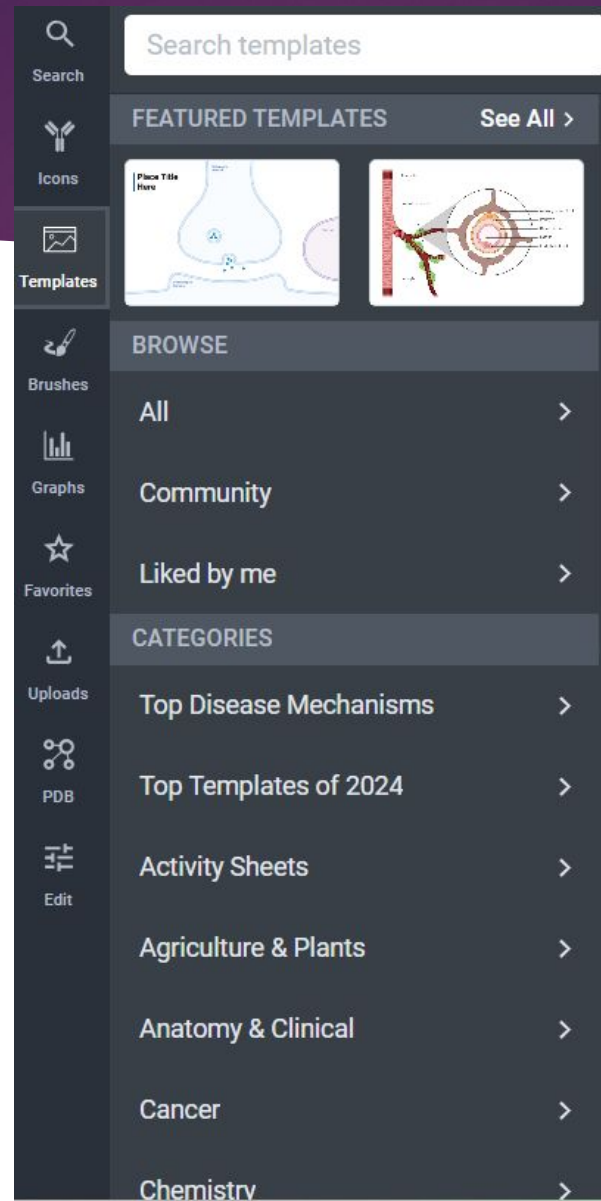
# Vertical Tab Icons-Search



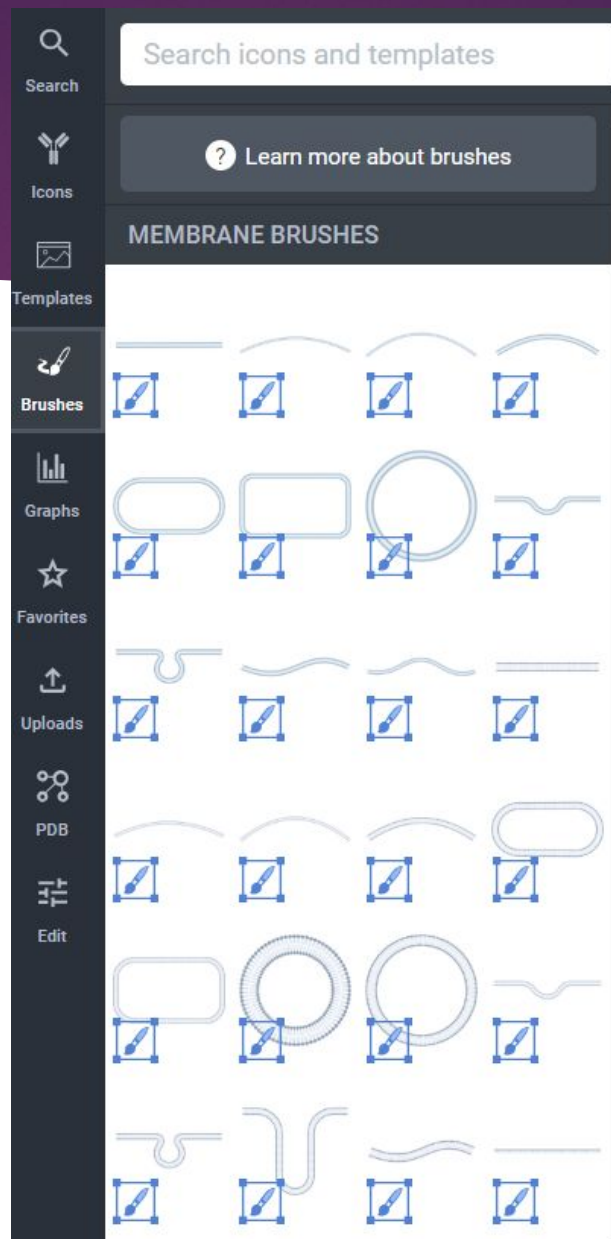
# Vertical Tab Icons-ICONS



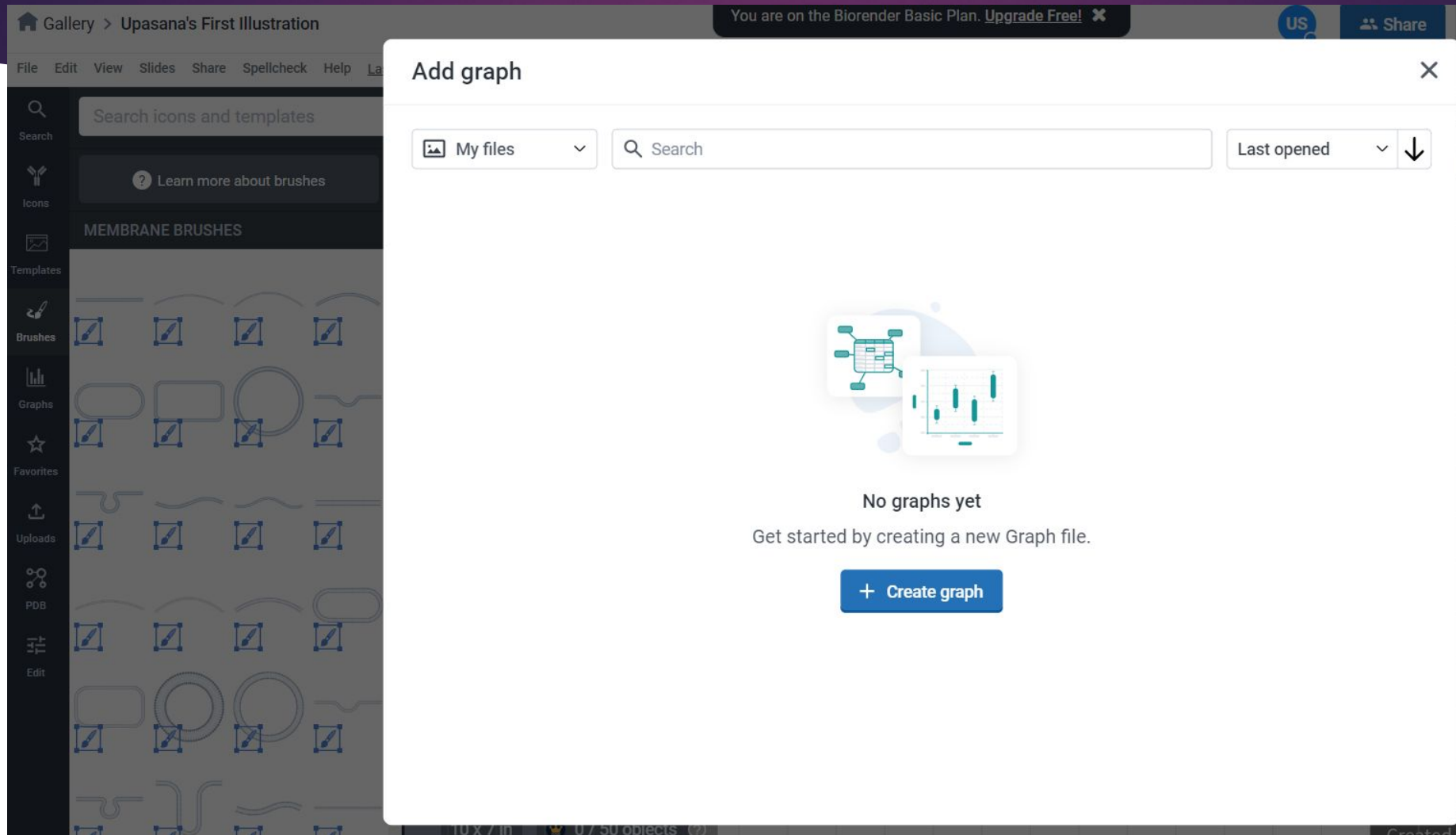
# Vertical Tab Icons-TEMPLATE



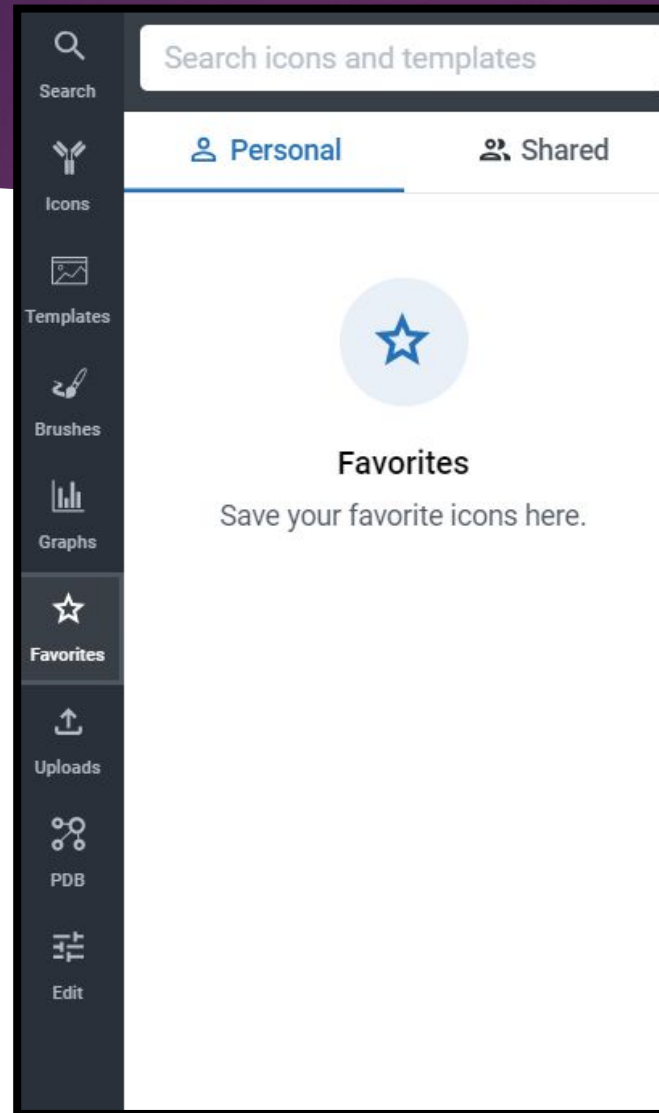
# Vertical Tab Icons-BRUSHES



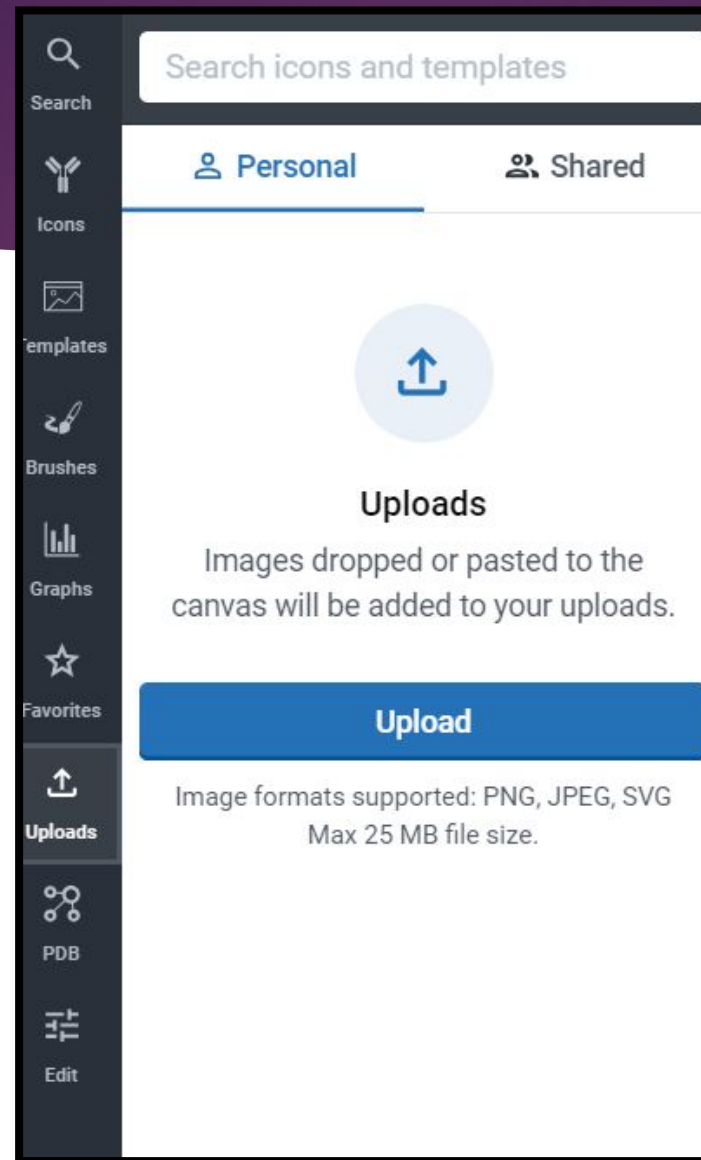
# Vertical Tab Icons-GRAPHS



# Vertical Tab Icons-FAVOURITES

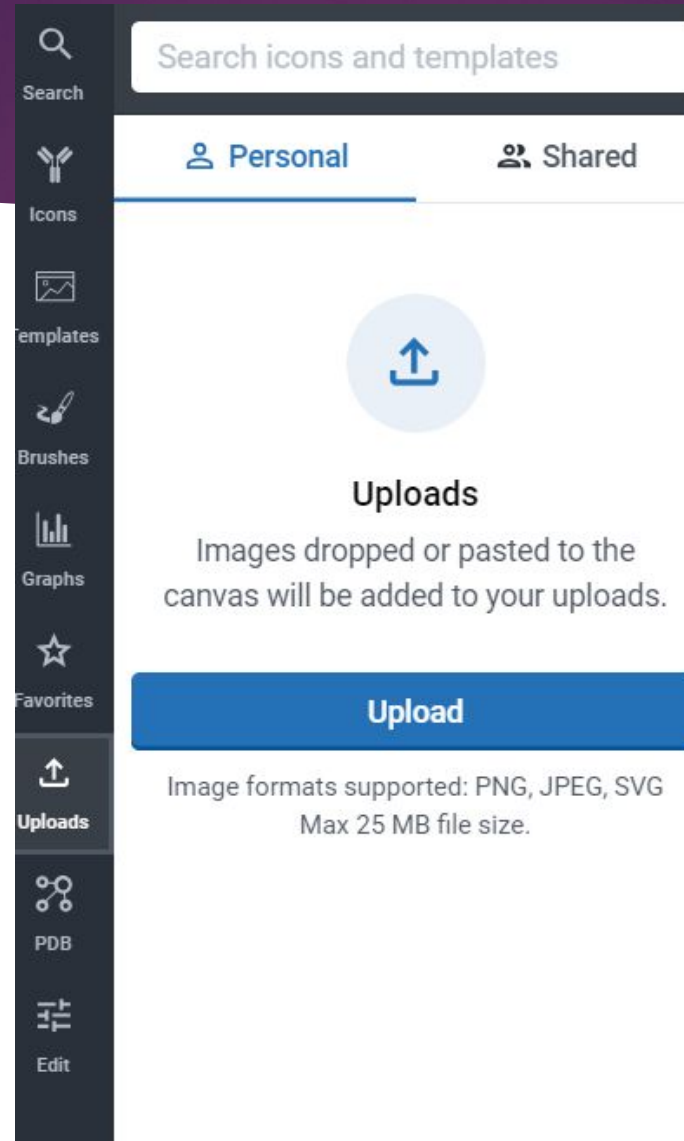


# Vertical Tab Icons-UPLOADS







# Vertical Tab Icons-UPLOADS




# Vertical Tab Icons-PDB




Search




Icons




Templates




Brushes




Graphs




Favorites



Uploads



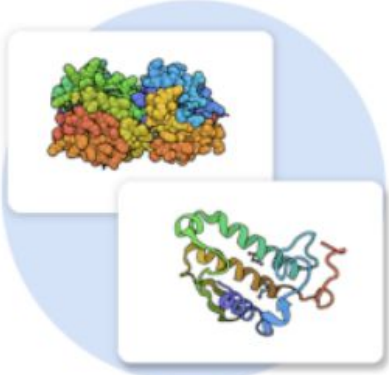
PDB



Edit

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 Learn more about PDB



Create custom protein icons  
with our PDB builder!

Retrieve from PDB

Upload custom PDB file

# Demo of bioRender

- ▶ <https://www.biorender.com/>



# Other tools

- ▶ Cellsalive

- ▶ biodigital

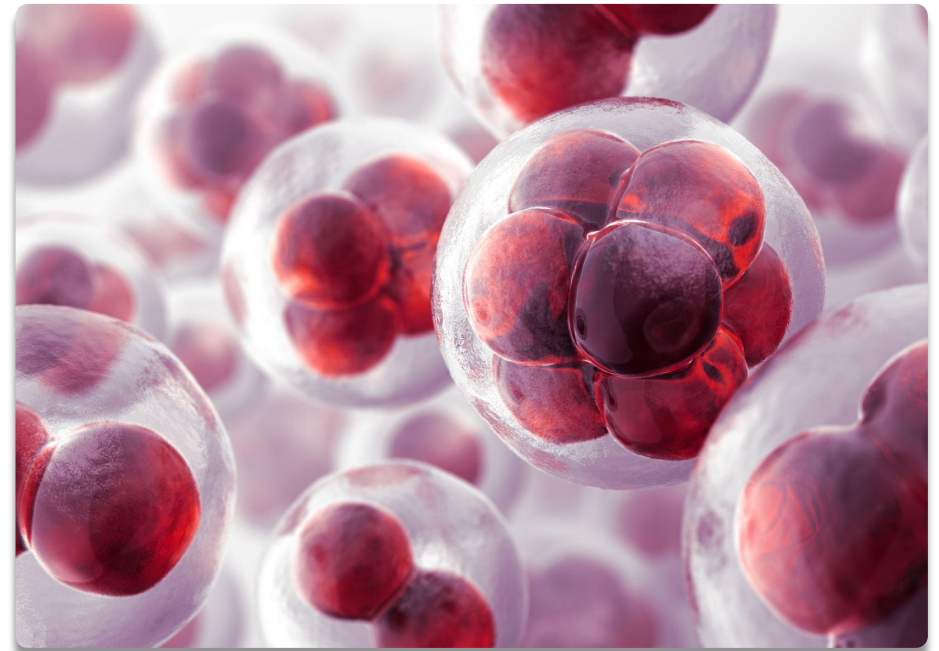
# Cells alive

<https://www.cellsalive.fun/>

- ▶ Provides information about cell biology, microbiology, immunology, and microscopy.
- ▶ It includes definitions, concepts, videos, images, animations, quizzes, puzzles, and study aids.

## Is cells alive free?

Most of the site is free of cost and registration for anyone with internet access.

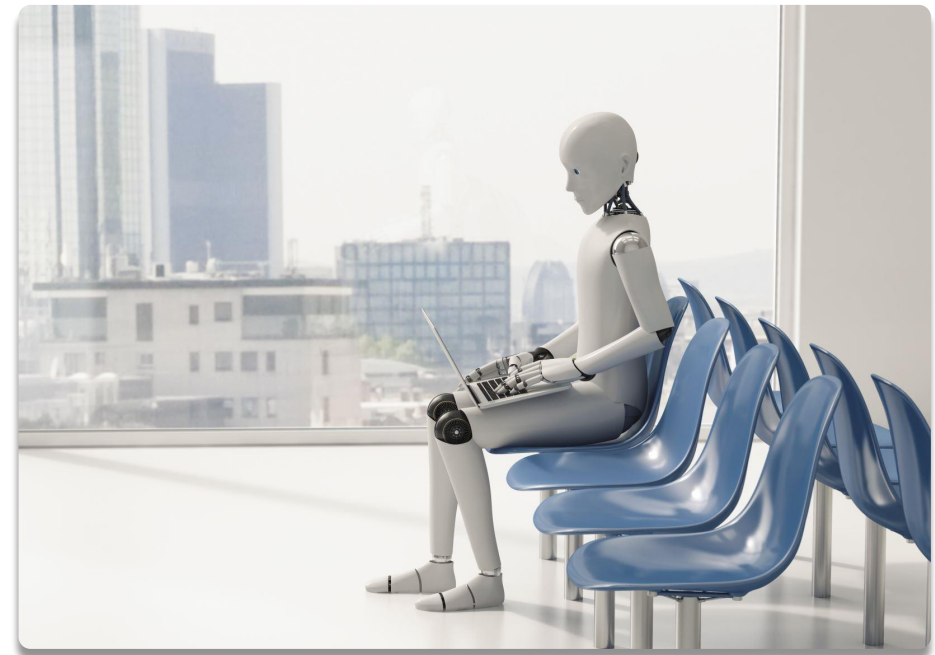


# Biodigital

- ▶ <https://www.biodigital.com/>
- ▶ The BioDigital Human is an interactive 3D software platform for visualizing anatomy, disease, and treatment.

## Is BioDigital free?

- ▶ you can view library of interactive 3D models up to 10 times per month, create customized views of the body in Human Studio, and store up to 5 models in My Library for future reference.





biodigital human - Yahoo India

in.search.yahoo.com/search?fr=mcafee&type=E211IN714G0&p=biodigital+human

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biodigital human

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About 3,280,000 search results

www.biodigital.com ▾

### BioDigital | Interactive 3D Anatomy - Disease Platform

**BioDigital** is a software platform that visualizes **human** anatomy, disease, and treatment in 3D. It offers scalable content creation, customization, and integration for education, training, and...

#### Medical Device

The BioDigital Human is the leading software platform for...

#### Developer Toolkits

Developer Toolkits - BioDigital | Interactive 3D Anatomy - ...

#### Launch Human

The BioDigital Human is a virtual 3D body that visualizes...

#### 3D Visualization Services

3D Visualization Services - BioDigital | Interactive 3D...

#### Human Studio

The BioDigital Human Platform houses the largest library of...

#### Ed Tech & Publisher

Bring your health content to life by embedding 3D anatomy...

#### Mobile Apps

Mobile Apps - BioDigital | Interactive 3D Anatomy - Disease...

#### Pharma

Leverage our library of hundreds of virtual anatomy,...

### Related searches

- 🔍 **biodigital human sign in**
- 🔍 **human biodigital website**
- 🔍 **biodigital human download**
- 🔍 **biodigital human anatomy**
- 🔍 **biodigital website**

www.biodigital.com > product > the-biodigital-human ▾

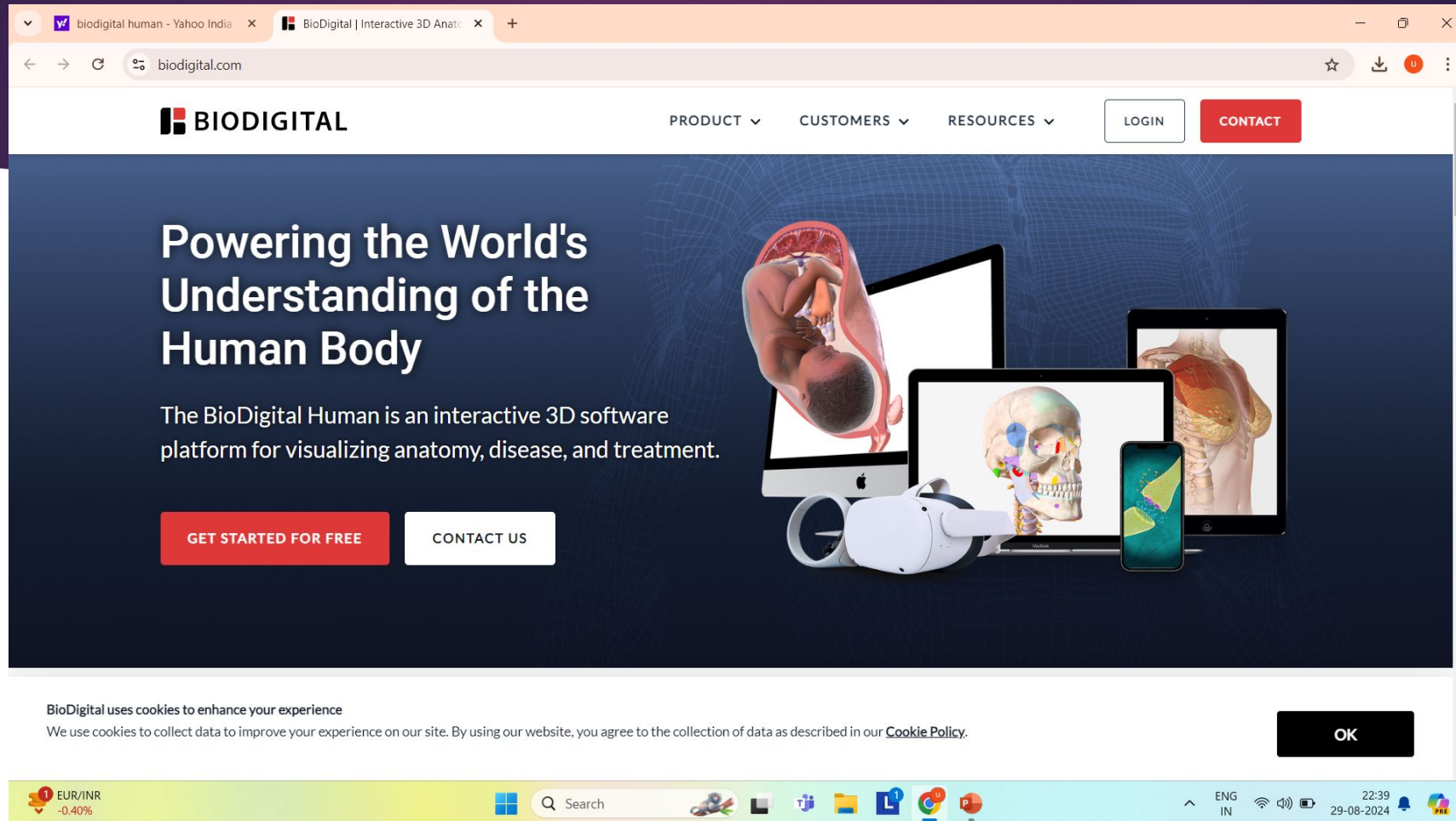
### BioDigital | The Virtual Body Platform | Human Anatomy ...

Explore interactive 3D models of **human** anatomy, conditions, and treatments with the **BioDigital Human**. Learn, create, and quiz with over 1,000 scientifically accurate and engaging content in 8...

1 EUR/INR -0.40%

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The most complete, scientifically accurate,  
virtual human body ever assembled.

Anatomy, health conditions, and treatments -  
all visualized in interactive 3D.



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Search



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22:40  
29-08-2024





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# Visualize anatomy, disease, and treatments in interactive 3D

🔍 Search 3D models by term, subject, or phrase

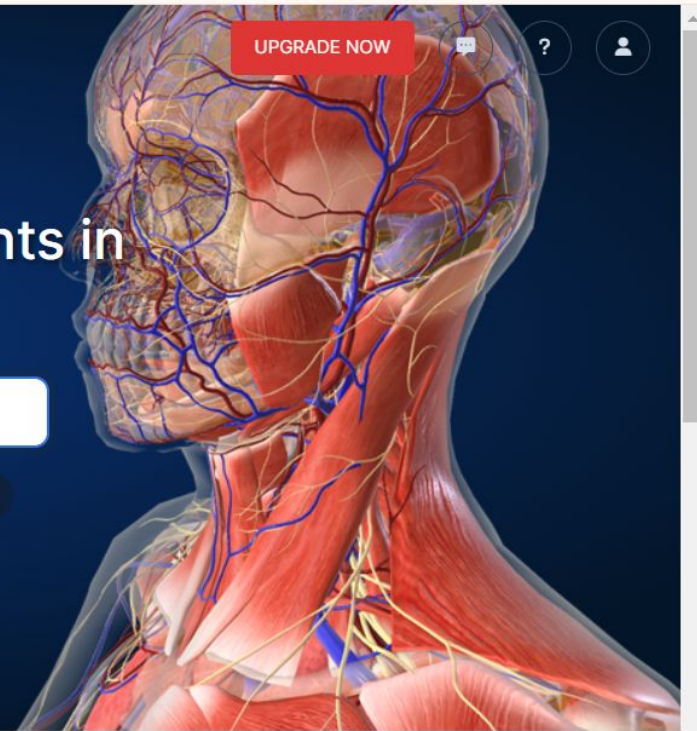
🔍 Heart Disease

🔍 Eye Health

🔍 Cancer Treatment

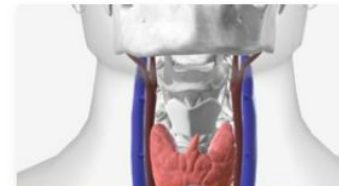
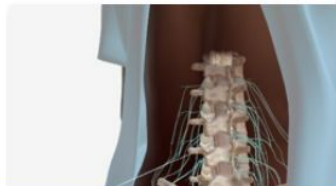
🔍 Pregnancy

🔍 Back Pain



## What's New >

Recent additions to our ever-expanding library of interactive 3D models.





human.biodigital.com/explore


EXPLORE


MY LIBRARY


Anatomy


 Anatomy by Regions


 Anatomy by Systems

 Complete Anatomy


 Bony Landmarks

 Cross Sections & Micro Anatomy


 Origins & Insertions


 Anatomy Quizzes


Community


 Community Bookmarks


Specialties


 Allergy & Immunology


 Cardiology


 Dentistry


 Dermatology


 Endocrinology


 Gastroenterology


 Gynecology


 Hematology


 Infectious Disease


 Nephrology


 Neurology & Psychiatry


 Obstetrics


 Oncology


 Ophthalmology


 Orthopedics


 Otolaryngology


 Pediatrics

 Physical Therapy

 Primary Care

 Pulmonology

 Rheumatology

 Urology


and treatments in


Pregnancy


Back Pain


UPGRADE NOW

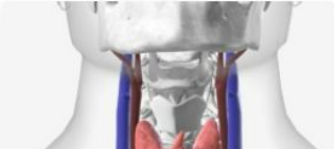
Recent additions to our ever-expanding library of interactive 3D models.













▶ Thank you