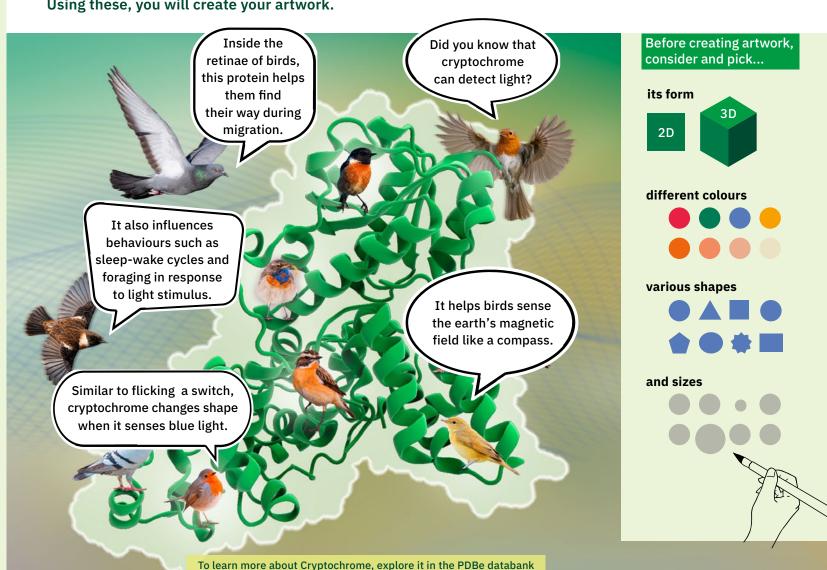
What comes to my mind? How do I feel?

A protein tale from nature: Cryptochrome



Read the short facts and note down anything you find interesting and inspirational. Using these, you will create your artwork.



by searching "cryptochrome" or using the PDB id: pdbe.org/6pu0

More proteins from nature



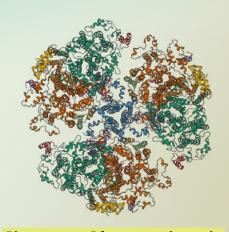
From photosynthesis to movement, from producing light to infecting other organisms, there are many proteins in nature that play crucial roles for the individual organisms and the overall health of the planet. Here are some of them and their structures for you to explore at the PDBe databank and be inspired to create your artworks.



Alpha-bungarotoxin from snake PDBe id:pdbe.org/labt
A neurotoxin from snakes that can lead to paralysis

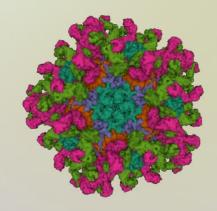


Thiolase from Sunflower PDBe id: pdbe.org/2wua
Energy production during germination



Photosystem I from cyanobacteria
PDBe id: pdbe.org/1jb0

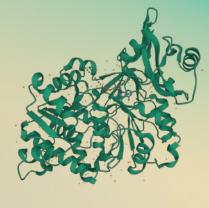
A protein complex that absorbs light
energy for photosynthesis



Human Hepatitis A Virus bound to antibodies PDBe id: pdbe.org/6jhs Antibodies play crucial roles detecting pathogens in the body



Green fluorescent protein from jellyfish PDBe id: pdbe.org/1gfl
Plays a role in bioluminescence and widely used in genetic engineering



Luciferase from firefly
PDBe id: pdbe.org/2d1q
Plays a role in
communication and mating



Partial tail of Salmonella bacterium PDBe id: pdbe.org/7cgo Tail motor proteins spin and push bacteria forward



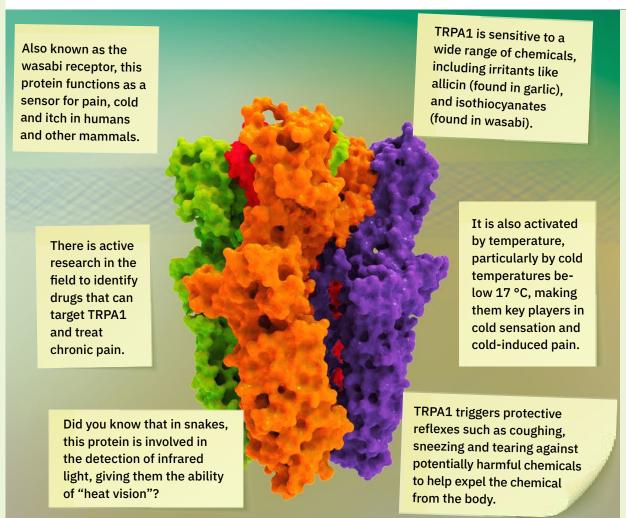
Bacteriophage
PDBe id: pdbe.org/8qo0
A type of virus that infects
bacteria

What comes to my mind? How do I feel?

A protein tale from within us: Wasabi Receptor



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Before creating artwork, consider and pick... its form 2D different colours various shapes and sizes

To learn more about TRPA1, explore it in the PDBe databank by searching "TRPA1" or using the PDB id: pdbe.org/3j9p

More proteins from within our bodies



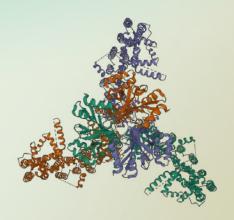
Our body produces more than 20.000 different types of proteins. Here are some of them and their structures for you to explore at the PDBe databank and be inspired to create your artworks.



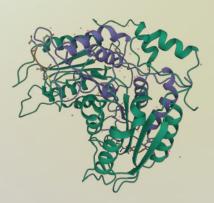
Light receptor from humans
PDBe id: pdbe.org/5w0p
Detects light and contributes to
formation of vision



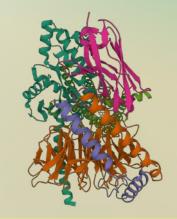
Olfactory receptors from humans PDBe id: pdbe.org/8f76 Gives us the ability to sense smell and differentiate between odors



PIEZO receptor from mouse PDBe id: <u>pdbe.org/6bpz</u> Important for touch perception in mammals



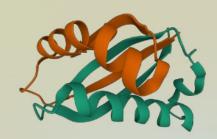
Caspase 1 from humans
PDBe id: pdbe.org/lice
Plays crucial roles in cell
death and inflammation



Bitter taste receptor from humans PDBe id: pdbe.org/7xp6 Detection of bitter tasting compounds in the tastebuds



PDBe id: pdbe.org/8ef5
Involved in pain relief, relaxation
and feeling of happiness



Mucin 1 from humans
PDBe id: pdbe.org/2acm
Forms a gel-like protective
layer in our body



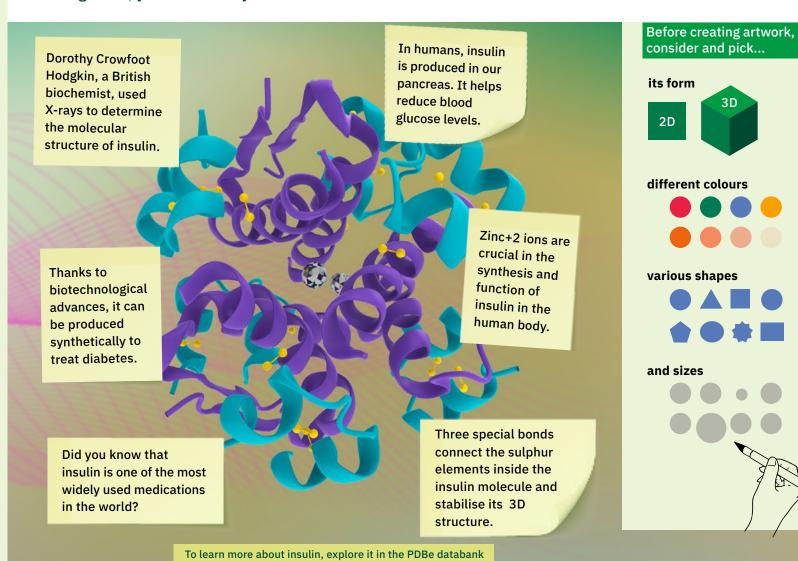
Myosin from humans
PDBe id: pdbe.org/2mys
Important for muscle
contraction

What comes to my mind? How do I feel?

A protein tale from Women in Science: Insulin



Read the short facts and note down anything you find interesting and inspirational. Using these, you will create your artwork.

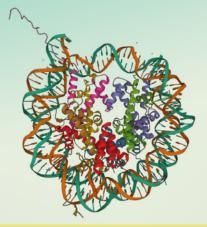


by searching "insulin" or using the PDB id: pdbe.org/1znj

More proteins on which women scientists did groundbreaking discoveries



Because proteins play a crucial role, it is no surprise that scientists kept studying them and discovering something new about them. Here are some of the proteins women scientists worked with and made groundbreaking discoveries.



Karolin Luger and nucleosome.
Visit the protein at pdbe.org/1aoi
Packaging DNA into condensed units



Elizabeth Blackburn and
Carol Greider and telomerase.
Visit the protein at pdbe.org/7v99
Important for determining the life-span
of cells in our bodies



Rita Levi-Montalcini and nerve growth factor.

Visit the protein at pdbe.org/4eax

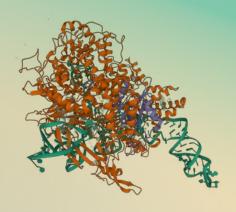
Important for the growth and health of nervous system



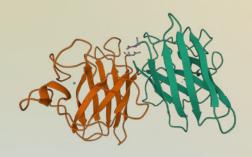
Ada Yonath and ribosomal proteins.

Visit the protein at pdbe.org/1fka

A crucial component of protein synthesis
in cells



Emmanuelle Charpentier and Jennifer Doudna and CRISPR-Cas9. Visit the protein at <u>pdbe.org/6mcb</u> Adding, removing or modifying DNA information in cells



Jane Richardson and copper, zinc superoxide dismutase.
Visit the protein at pdbe.org/2sod
Protects cells against UV and chemicals