

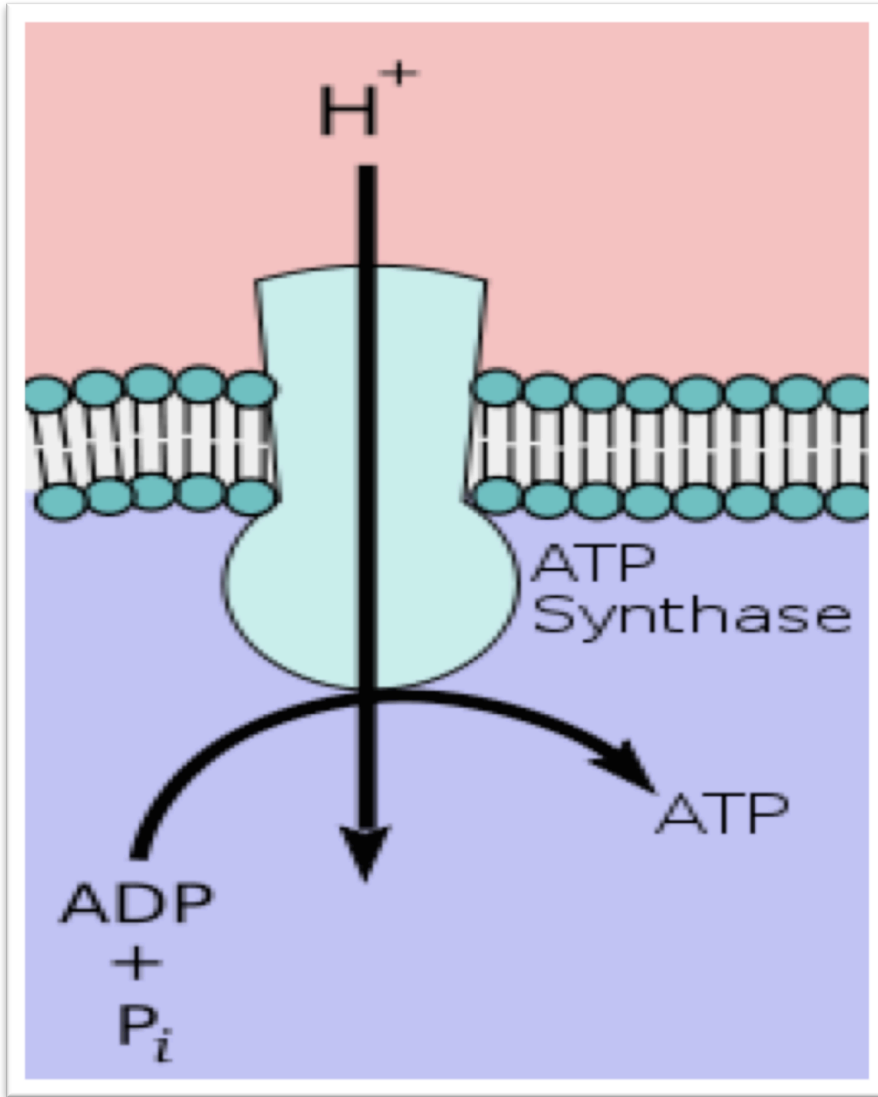


# About Science Prof Online PowerPoint Resources

- Science Prof Online (SPO) is a free science education website that provides fully-developed Virtual Science Classrooms, science-related PowerPoints, articles and images. The site is designed to be a helpful resource for students, educators, and anyone interested in learning about science.
- The SPO Virtual Classrooms offer many educational resources, including practice test questions, review questions, lecture PowerPoints, video tutorials, sample assignments and course syllabi. New materials are continually being developed, so check back frequently, or follow us on Facebook (Science Prof Online) or Twitter (ScienceProfSPO) for updates.
- Many SPO PowerPoints are available in a variety of formats, such as fully editable PowerPoint files, as well as uneditable versions in smaller file sizes, such as PowerPoint Shows and Portable Document Format (.pdf), for ease of printing.
- Images used on this resource, and on the SPO website are, wherever possible, credited and linked to their source. Any words underlined and appearing in blue are links that can be clicked on for more information. PowerPoints must be viewed in *slide show mode* to use the hyperlinks directly.
- Several helpful links to fun and interactive learning tools are included throughout the PPT and on the Smart Links slide, near the end of each presentation. You must be in *slide show mode* to utilize hyperlinks and animations.
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Alicia Cepaitis, MS  
Chief Creative Nerd  
Science Prof Online  
Online Education Resources, LLC  
[alicia@scienceprofonline.com](mailto:alicia@scienceprofonline.com)

Tami Port, MS  
Creator of Science Prof Online  
Chief Executive Nerd  
Science Prof Online  
Online Education Resources, LLC  
[info@scienceprofonline.com](mailto:info@scienceprofonline.com)



Meet the  
Enzyme:  
**ATP  
Synthase**

# Meet the Enzyme: ATP Synthase

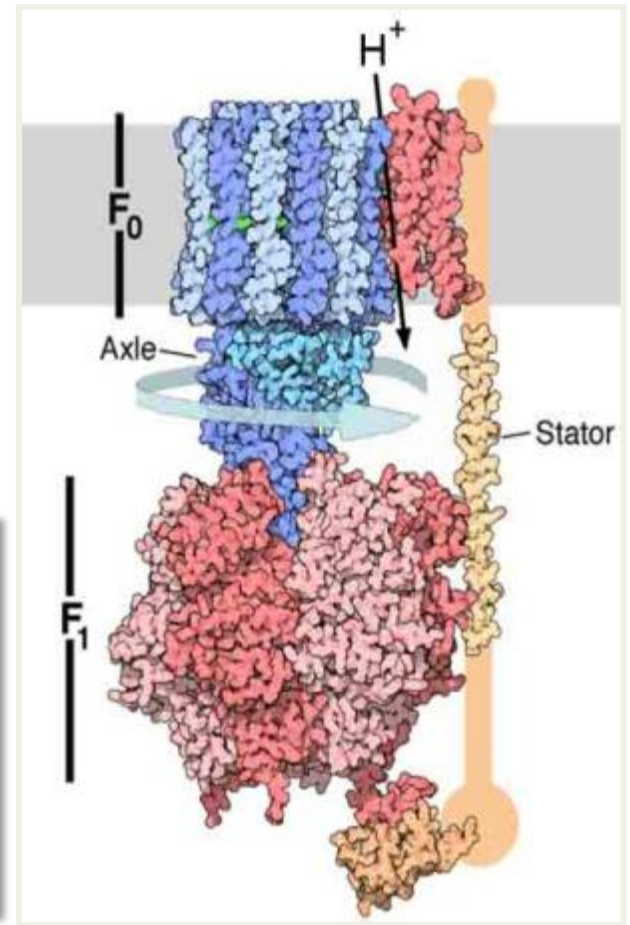
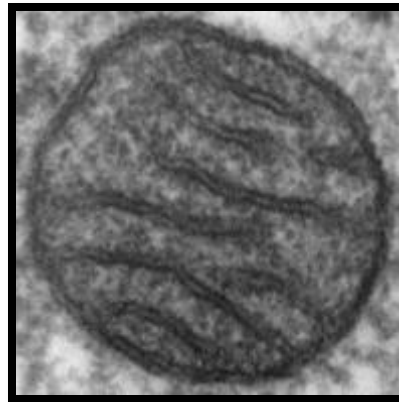
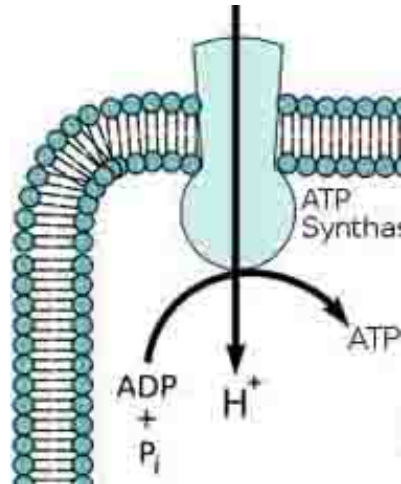
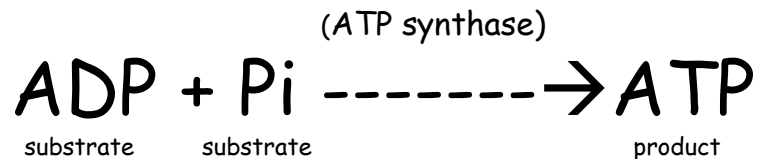
Important metabolic enzyme that harnesses energy for biological cells to use.

Involved in **synthesis** of adenosine triphosphate (**ATP**), from:

- adenosine diphosphate (ADP)
- a phosphate group and
- energy from H<sup>+</sup> ion gradient

ATP is the most commonly used "energy currency" of cells.

**Reaction:**



# Meet the Enzyme: ATP Synthase

## Animations & Class Notes On ATP & ATP Synthase

- [Gradients \(ATP Synthase\)](#)  
animated video from NDSA Virtual Cell.
- [ATP Synthase](#) animated video  
from Graham Johnson.
- [What Is an Enzyme Catalyst?](#)  
"Class Notes" from Science Prof Online.
- [What Is ATP?](#) "Class Notes" from  
Science Prof Online.

### Reaction:

