Center for BioMolecular Modeling

. . .where teachers come first

Resources for Beta-globin and GFP Collection

MSOE Center for Biomolecular Modeling Educational Unit on GFP
http://www.rpc.msoe.edu/cbm2/gfp1.htm

This web site provides a method using GFP to teach molecular structure and function and the central dogma. The site provides background information regarding the GFP.

Applications of Green Fluorescent Protein within the Research Lab
http://www.conncoll.edu/ccacad/zimmer/GFP-ww/GFP-1.htm

A number of different research laboratories use GFP in order to facilitate their studies and to further examine their topic of interest. This website provides a wealth of resources, including a historical perspective, practical uses and one research lab's applications.

The Glowing Bunny
http://www.ekac.org/gfpbunny.html#gfpbunnyanchor

This web site provides information regarding the introduction of GFP into a rabbit, which then allows the rabbit to glow green under illumination of a specific wavelength. Though not a scientific treatise, it is written in a manner that engages students.

Molecule of the Month in the Protein Data Bank
http://www.rcsb.org/pdb/education_discussion/molecule_of_the_month/download/GFP.pdf

This site provides information about the green fluorescent protein, with specific reference to structures in the Protein Data Bank. The GFP in the model collection was designed using a different pdb file than the one that David Goodsell uses in his Molecule of the Month description, but the information about the structure and function is still appropriate for the model in the collection. The pdb file used for the GFP in this collection was 1emb.

Green Fluorescent Protein Links for Teachers
http://www.ascb.org/index.cfm?navid=6&id=1261&tcode=nws3&search=1

This website by the American Society for Cell Biology is a good resource for information about GFP in the context of teaching GFP to students.

Green Fluorescent Protein
http://www.callutheran.edu/Academic_Programs/Departments/BioDev/omm/gfp/gfp.htm

This is a Chime tutorial exploring GFP structure and function.

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