

# Molecular Switches

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In the previous section, we described the basic components of genetic switches gene regulatory proteins and the specific DNA sequences that these proteins recognize.

<http://www.ncbi.nlm.nih.gov/books/NBK26872/>

The first switchable compound? I don't understand why the example of the intramolecular photochemical dimerization of a bisanthracene is given as the first molecular

[http://en.wikipedia.org/wiki/Talk:Molecular\\_switch](http://en.wikipedia.org/wiki/Talk:Molecular_switch)

Molecules, an international, peer-reviewed Open Access journal. Special Issue "Molecular Switches" Quicklinks. Special Issue Editors; Special Issue Information

[http://www.mdpi.com/journal/molecules/special\\_issues/molecular-switches](http://www.mdpi.com/journal/molecules/special_issues/molecular-switches)

Controlling the bulk properties of functional materials is one of the main objectives of the field of molecular switches and machines. Dartmouth researchers have

<http://www.materialsviews.com/molecular-switch-to-change-liquid-crystal-colors/>

Molecular switch: The tip of a scanning tunneling microscope (shown in silver) probes a cross-shaped molecular switch to turn on and off a neighboring molecule.

<http://www.technologyreview.com/news/408607/a-new-type-of-molecular-switch/>

The exciting thing is that by flipping this molecular switch, we could go from a diseased state to a normal state, says principal investigator Jay L. Zweier

<http://wexnermedical.osu.edu/mediaroom/pressreleaselisting/researchers-identify-molecular-switch-to-vascular-health>

Every day we use switches to turn electric appliances on and off and no computer could function without them. Molecular switches work in the same

<http://onlinelibrary.wiley.com/book/10.1002/3527600329>

Jul 23, 2012 Time lapse series of scanning tunnelling microscope (STM) images of a single poly-chlorinated-biphenyl (PCB) molecule switching between two stable states.

<http://www.youtube.com/watch?v=HJLEzuD-1-A>

The foundation of molecular switches in biology is grounded in translation elongation and cellular signal transduction. In these systems, guanine

<http://genesdev.cshlp.org/content/12/14/2096.full>

May 28, 2009 Imagine you are a soldier on a very dangerous patrol in Afghanistan. While your conscious brain attends to the environment, looking for suspicious activity

<https://designmatrix.wordpress.com/2009/05/29/g-proteins-the-molecular-switch/>

Nov 22, 2005 A means for controlling single-molecule switches by engineering their design and surrounding environment has been developed by a research team led by

<http://news.psu.edu/story/206915/2005/11/23/scientists-discover-how-flip-molecular-switch>

Nanoscale Molecular-Switch Crossbar Circuits EECS 598 Nanoelectronics Week 12 Presentation November 29, 2005 Fabrication Methodology E-beam Lithography

<http://www.eecs.umich.edu/courses/eecs598/handouts/week12-group1.pdf>

Why molecular electronics Interface between conventional circuitry and molecular circuitry. Almost all proposed molecular devices are not fabrication-friendly

[http://www.powershow.com/view1/7ff24-ZDc1Z/Molecular\\_switches\\_powerpoint\\_ppt\\_presentation](http://www.powershow.com/view1/7ff24-ZDc1Z/Molecular_switches_powerpoint_ppt_presentation)

Pheromone-binding proteins (PBPs) are involved in the uptake of pheromones from pores on the antennae, transport through an aqueous environment surrounding the

<http://www.sciencedirect.com/science/article/pii/S0006291X08009728>

Molecular Switch Demo Vision Box: Materials 3 Colored Lights (Blue, Green, & Red) Vision Box Poster Paper (white) Dark Room preferably

[http://www.mrsec.psu.edu/education/museum\\_shows/zoom\\_in\\_on\\_life/molecular\\_switches/molecular\\_switches\\_procedure.pdf](http://www.mrsec.psu.edu/education/museum_shows/zoom_in_on_life/molecular_switches/molecular_switches_procedure.pdf)

G PROTEINS: MOLECULAR SWITCHES FOR SENSING THE ENVIRONMENT. by davidsecko (August 2003) Cells show an astounding awareness of the environments in which they find

<http://www.scq.ubc.ca/g-proteins-molecular-switches-for-sensing-the-environment/>

The preparation, characterization, and switching mechanism of a unique single-station mechanically switchable hetero[2]catenane are reported. The facile synthesis

<http://authors.library.caltech.edu/15803/>

Scientists have identified a single molecular switch controlling inflammatory processes that may underlie aging-related diseases.

<http://www.worldhealth.net/news/molecular-switch-may-underlie-diseases-aging/>

Molecular switches at surfaces. Martin Weinelt and Felix von Oppen 2012 J. Phys.: Condens. Matter 24 390201

<http://iopscience.iop.org/0953-8984/24/39/390201>

A molecular switch is a molecule that can be reversibly shifted between two or more stable states. The molecules may be shifted between the states in response to

<http://www.freebase.com/m/02vr2pj>

The long-awaited second edition of the successful book covering molecular switches now in two volumes! Providing principles and applications this book brings

<http://onlinelibrary.wiley.com/book/10.1002/9783527634408>