

# Molecular Switches

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## **A Push-Button Molecular Switch - CaltechAUTHORS -**

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/>

## **What is a Molecular Switch? - Nanotechnology -**

Rotaxanes consist of a molecular ring trapped on a long chain. The structure can be used as a nanoscale switch by moving the ring between binding sites. <http://www.azonano.com/article.aspx?ArticleID=3051>

## **Talk: Molecular switch - Wikipedia, the free -**

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)

## **A New Type of Molecular Switch | MIT Technology -**

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/>

## **G-Proteins: The Molecular Switch - WordPress.com -**

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/>

### **Molecular Switches - Wiley Online Library -**

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>

### **Molecular Rotors as Switches - National Center -**

1.1. Molecular Rotor as Molecular Switches. Besides the linear motion, as mentioned in the previous section, the rotary motion is another category of molecular machines.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3478801/>

### **Molecular Switch Identified as Treatment Target -**

Researchers have discovered that the oncogenic function of a particular protein in castration-resistant prostate cancer (CRPC) can cause the cancer to spread without

<http://www.onclive.com/publications/obtn/2013/January-2013/Molecular-Switch-Identified-as-Treatment-Target-in-Castration-Resistant-Prostate-Cancer>

### **The Molecular Switches - University of Windsor -**

We impart switching properties into our new mechanically interlocked molecule (MIM) systems. For example, a second recognition site can added to a simple [2]rotaxane

<http://www1.uwindsor.ca/people/loeb/the-molecular-switches>

### **Molecular Switches: Ben L. Feringa, Wesley R -**

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

<http://www.amazon.com/Molecular-Switches-Ben-L-Feringa/dp/3527313656>

### **Molecules | Special Issue : Molecular Switches -**

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)

### **G PROTEINS: MOLECULAR SWITCHES FOR SENSING THE -**

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/>

### **Molecular Switches :: essays research papers fc -**

Category: essays research papers fc; Title: Molecular Switches :: 3 Sources Cited Length: 1887 words (5.4 double-spaced pages) Rating: Red (FREE)

<http://www.123helpme.com/view.asp?id=77586>

### **Molecular switch - YouTube -**

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-l-A>

### **Researchers Identify Molecular ' Switch' to -**

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>

### **A Molecular Switch Created by In Vitro -**

We have created a molecular switch by the in vitro recombination of nonhomologous genes and subjecting the recombined genes to evolutionary pressure. The gene e  
<http://www.sciencedirect.com/science/article/pii/S1074552104002765>

### **Nanoscale Molecular- Switch Crossbar Circuits -**

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>

### **Scientists discover how to flip a 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>

### **How Genetic Switches Work - Molecular Biology of -**

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/>

### **Learn and talk about Molecular switch, Molecular -**

A molecular switch is a molecule that can be reversibly shifted between two or more stable states. [1] The molecules may be shifted between the states in response to  
[http://www.digplanet.com/wiki/Molecular\\_switch](http://www.digplanet.com/wiki/Molecular_switch)

### **Phys.org - molecular switch -**

Molecular switch. 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  
<http://phys.org/tags/molecular%20switch/>

### **Molecular switches at surfaces - Abstract - -**

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>

### **Molecular switch - Freebase -**

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>

### **Molecular switch to change liquid crystal colors -**

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 Demo -**

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)

### **Molecular switches for pheromone release from a -**

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>

### **IBM measures single-atom memory, molecular switch -**

IBM's Almaden Research Center has measured the ability to store a bit on a single atom, portending hard drives with ultra-high storage capacity.

[http://www.eetimes.com/document.asp?doc\\_id=1166964](http://www.eetimes.com/document.asp?doc_id=1166964)

### **Molecular switch - Wikipedia, the free -**

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

### **Molecular Switch May Underlie Diseases of Aging | -**

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, Second Edition - Wiley Online -**

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>

**miRNA molecular switches for purification of -**

Recently, Japanese researchers described a new methodology for purification of iPS/ES cell-derived tissue-specific progenitors by genetic markers.

<http://stemcellassays.com/2015/06/mirna-molecular-switch/>

**PPT Molecular switches PowerPoint presentation | -**

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)

**Mismatch repair, molecular switches, and signal -**

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>