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A future for
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cells. It is one of the
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The future of
optogenetics...
Optogenetics has
already come a long

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And The Future Of Neuroscience

way in 10 years with the insertion of different light-sensitive opsins into cells and the creation of novel opsins with specific properties necessary to answer certain research questions.

The future of optogenetics...
Over the last 10 years, optogenetics has

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become widespread in neuroscience for the study of how specific cell types contribute to brain functions and brain disorder states.

The full impact of optogenetics will emerge only when other toolsets mature, including neural connectivity and cell phenotyping tools and neural recording and

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analysis of the impact of
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Future challenges
Cellular optogenetics
has accomplished a
great deal in its nearly

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ten years of existence, but a number of challenges still lie ahead as this field matures into adolescence. With a few notable exceptions, we still lack the tools to plug in light as the sole source of protein activity at particular signaling nodes.

A bright future:
optogenetics to dissect

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Even though

optogenetics is a process that requires genes and light and other things that are difficult to use in humans, the temporal and special precision is extremely good.

Ed Boyden and
Optogenetics: The

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Optogenetics

Future of Neuroscience

Optogenetics (from Greek *optikós* 'seen, visible') most commonly refers to a biological technique that involves the use of light to control neurons that have been genetically modified to express light-sensitive ion channels. As such, optogenetics is a neuromodulation

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method that uses a combination of techniques from optics and genetics to control the activities of individual neurons in living ...

Optogenetics -
Wikipedia

Optogenetics is a method for controlling a neuron's activity using light and genetic

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Engineering The process
of changing the
information in the
genetic code (the
blueprints) of a living
thing by adding or
deleting information.
Genetic engineering is
sometimes called
genetic modification.

What Is Optogenetics
and How Can We Use It
to Discover ...

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Over the last 10 years, optogenetics has become widespread in neuroscience for the study of how specific cell types contribute to brain functions and brain disorder states. The full impact of optogenetics will emerge only when other toolsets mature, including neural connectivity and cell

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phenotyping tools and neural recording and imaging tools. The latter tools are rapidly improving, in part because optogenetics has helped galvanize broad interest in neurotechnology development.

Optogenetics and the future of neuroscience □

MIT Media Lab

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Future optogenetics experiments, especially performed in

Neuroscience
conjunction with other new technologies, may realize the dream of fully understanding neural circuits with single-cell precision.

For example, many optogenetic studies have activated or silenced neurons as populations, engaging them

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synchronously as an ensemble. ...

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| happyhounds ...

Optogenetics provides a different approach to the subject of medical treatment. We have been limited in what we can achieve because we have mainly focused on two methodologies:

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And The Future,
which are often
symptom-oriented
instead of holistic, and
external manipulation,
like physically attaching
electrical conductors to
the brain.

Bioengineering of the
Future: Optogenetics □
SQ Online

Optogenetics is a new
technology that

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combines genetics and optics. It enables one to manipulate or measure the function of identified cells or neurons in a tissue by light with an accuracy in the range of milliseconds, even in a freely moving animal. Optogenetics has already become a powerful tool for revealing the neural

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Development And

Application Of Control
Tools For Use In ...

The application of
optogenetic tools to
investigate neural
circuits has become a
staple in many labs. Yet
there is a vast parameter
space in terms of the
pattern of activity to be

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yet to be explored.

Optogenetics and
Imaging: Technology
Development, Novel ...
October 2011 Lynn
Savage With continued
fine-tuning,
optogenetics may lead
to better treatments of
once-implacable
maladies that affect
muscle coordination,

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sleep and vision.

Controlling a biological response with a shock of light is a somewhat recent development.

Most people flinch when int

Optogenetics May Stop Multiple Disorders in Their Tracks ...

Optogenetics is a cutting-edge method in which genetic code is added to

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A target cell, typically a neuron, in order for it to produce light-responsive proteins called opsins.

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way in 10 years with the insertion of different light-sensitive opsins into cells and the creation of novel opsins with specific properties necessary to answer certain research questions. The future of optogenetics...

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The past, present and

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future of light-gated ion channels and optogenetics The discovery of the mechanisms underlying light-gated ion channels called channelrhodospins and the subsequent development of optogenetics illustrates how breakthroughs in science and technology can span multiple levels

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