

The Independent

[Why music is music to our ears](#)

[AOL to sell social networking website Bebo](#)

[Bad girl Serena vows not to break any rackets at Wimbledon](#)

[More on The Independent](#)

Protein

[Reportlinker Adds Global Milk Industry](#)

[Cellular defect that leads to cancer discovered](#)

[Why family history ups Alzheimers risk - especially from the maternal side](#)

[More on Protein](#)

Technology News

[Oil spill threatens toothy marine predator](#)

The oil spill in the Gulf of Mexico threatens the existence of a toothy marine predator that has been recognised as Americas cultural and historic icon, according to a University of Florida researcher. ANI

[Boffins unveil new test for assessing childrens, teens fitness](#)

Spanish researchers have validated a new test for assessing childrens and teenagers fitness to prevent morbidity. ANI

[A new vision of climate change needed to combat](#)

Anti-fear drug may help erase painful memories

[Anti-Anxiety Remedy](#)

Proven natural remedy for immediate relief. Safe and non-addictive. Seredyn.com

[Ask a Psychiatrist:Stress](#)

17 Psychiatrists Are Online Now. Ask a Question, Get an Answer ASAP. JustAnswer.com/Stress

Ads by Google

It is possible to overcome bad memories of painful situations with the help of a chemical that works on the brain, say scientists.

London, June 4 : It is possible to overcome bad memories of painful situations with the help of a

chemical that works on the brain, say scientists.

Researchers suggest that anti-fear medication could help soldiers deal with post-traumatic stress disorder. he new study was carried out on laboratory rats.

According to boffins, instead of working in the same way as a conventional sedative or anti-depressant, the new chemical stimulates the area of the brain thought to be involved in remembering a painful situation from the past. The chemical, called brain-derived neurotrophic factor (BDNF), is naturally produced in the brain and is involved in learning and memory. When given to the rats, the drug caused them to re-learn a painful association so that the memory of it is extinguished - although not lost entirely.

"Many lines of evidence implicate BDNF in mental disorders. This work supports the idea that medications could be developed to augment the effects of BDNF, providing opportunities for pharmaceutical treatment of post-traumatic stress disorder and other anxiety disorders," said Thomas Insel, director of the US National Institute of Mental Health.

Published in the journal Science, the study investigated how laboratory rats freeze when they hear a sound that they have associated with a small electric shock to their feet. It is possible to overcome this fear of the sound by training the animals with a series of similar sounds not associated with painful shocks.

[The Independent](#) reports, "But by injecting BDNF, a [protein](#) that stimulates the growth of nerve cells, into the brains of the rats, the scientists found they could mimic the effects of the retraining process. This chemical mimicry only worked if they put BDNF into a part of the brain called the infralimbic prefrontal cortex, a structure that appears to be critical for the extinction of memory.

"The drug seems to induce a "memory of safety" in the rats that overrides the fearful memory. In effect, the BDNF drug mimics the effect of retraining the rats to extinguish the memory of the painful situation, said Gregory Quirk of the University of Puerto Rico School of Medicine, who led the investigation."

"The surprising finding here is that the drug substituted for extinction training, suggesting that it induced such a memory [of safety]," Dr Quirk said.

ANI

Link to this page

<http://www.andhranews.net/Technology/2010/June/4-Anti-fear-drug-help-21334.asp>>Anti-fear drug may help erase painful memories

Why Wal-Mart is Doomed

The reign of the "King of Retail" is over. A rapidly expanding rival is stealing away business – forcing Wal-Mart to revamp their stores or face extinction. While Wal-Mart struggles to play catch-up, this next generation retailer is taking over. In fact, *Fast Company* calls it "The New Wal-Mart."

Get the name of this company – that's stock is up 435% since The Motley Fool first recommended it – in a free report, "The Death of Wal-Mart: The Real Cash Kings Changing the Face of Retail." Get its name before it makes another big move!

[Click here for instant access to this FREE report!](#)

PRESENTED BY THE MOTLEY FOOL

www.Fool.com Ads by Google

skepticism

A British is looking into ways new visual strategies can communicate climate change messages against a backdrop of increased climate scepticism. ANI

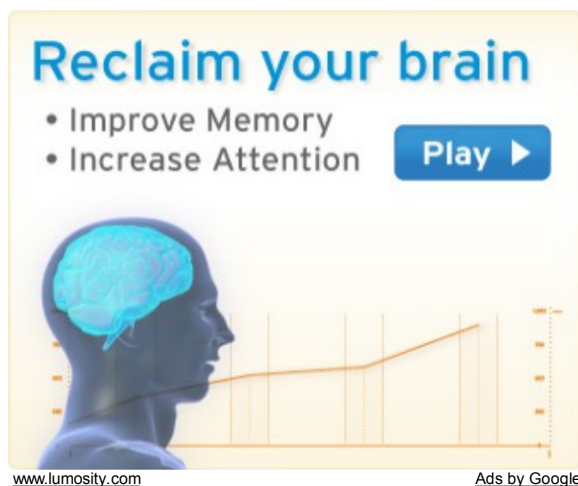
Ads by Google

[Anxiety Stress Relief](#)

[Stress Relief Tips at Work](#)

[Cryogenic Stress Relief](#)

[Natural Anxiety Remedy](#)



Reclaim your brain

- Improve Memory
- Increase Attention

Play ▶

www.lumosity.com Ads by Google

Suggested pages for your additional reading

Related Links by Google

[Capello believes Germanys fear of facing England behind ...](#)

[U.P villagers fear blooming bamboo flowers a bad omen](#)

[UFO experts fear full-scale alien invasion Down Under](#)

[Sibal dispels fear over IIT faculty joining foreign institutions](#)

[Peter Andre tries to conquer his fear of heights](#)

[Prince of Persia Jake Gyllenhaals secret fear: ostriches!](#)

[Fear that World Cup fans may be targets for criminals, terrorists](#)

© 2000-2010 AndhraNews.net. All Rights Reserved and are of their respective owners.
[Disclaimer](#), [Terms of Service & Privacy Policy](#) | [Contact Us](#)