

# Thaindian News

[Home](#)[Forums](#)[About Us](#)[News Map](#)[Photos](#)[Submit News](#)[Tags](#)[Ads by Google](#)[Nepal Government](#)[Nepal 'S](#)[Bollywood Photos](#)[Nepali Marriage](#)[Hindi Girls India](#)[Ads by Google](#)[Indian Matrimonial](#)[Photos](#)[VoIP to India](#)[Set Max India](#)

## Categories

- Books
- Business
- CPI
- Entertainment
- Environment
- Events
- Feature
- Health
- Health Science
- images
- India
- Life Style
- National
- New Delhi
- nuclear
- Odd news
- Politics
- Press Release
- Sci-Tech
- South Asia
- Sports
- Technology Industry News
- test
- Thailand
- Thailand Tourism
- Uncategorized
- UPA
- Videos
- World
- World News

## Hot Now!

## Cancer-killing viruses stimulate tumor blood-vessel growth



June 11th, 2008 - 2:09 pm ICT by ANI

@ TELL A FRIEND

### [Hot Bollywood Babes](#)

Free high quality pictures of sexy Indian actresses. Take a look.  
UtopianVision.co.uk

### [Nobel Prize winner](#)

congratulate Barack Obama with his Nobel Prize for peace  
www.telegramsonline.co.uk

### [Should Obama be Nobel?](#)

Is it too soon? Are you happy? Tell the whole world what you think  
www.criticobama.com

Ads by Google

Washington , June 11 (ANI): While [viruses](#) genetically designed to kill cancer cells offer a promising strategy for treating incurable [brain tumors](#) such as [glioblastoma](#), a new study by an Indian-origin scientist has found that such viruses also stimulate the growth of new [blood vessels](#) to the tumor, thereby actually leading to regrowth of the tumor.

**These vessels transport immune cells that eradicate the viruses and actually stimulate regrowth of the tumor.**

Led by **Balveen Kaur**, a researcher with Ohio State 's Comprehensive Cancer Center and the Dardinger Laboratory for Neuro-oncology and Neurosciences, the findings of this study could improve this therapy for brain



- [Pumpkin Carving Stencil Patterns Features Popular Characters From Twilight And Harry Potter](#)
- [Elizabeth Smart speaks about her rape and kidnap ordeal](#)
- [Homemade Halloween Costume Ideas At Affordable Rates](#)
- [India Vs Australia: 2ND ODI Highlights](#)
- [Pumpkin Seed Recipe Is A Popular Internet Search Before Halloween](#)

administration official  
ambulances cabinet committee  
**chief minister** delhi high  
court district administration  
economic affairs fire tenders  
gandhi hospital indian oil  
mahatma gandhi mumbai murli  
deora nearby areas nearby villages  
precautionary measure rs 50 swine  
flu wednesday night west bengal

## Meta

- [Register](#)
- [Log in](#)
- [Entries RSS](#)
- [Comments RSS](#)



- [People in Developing Countries Pay More for Diabetes Care and Have Poorer Health Results: IDF Study](#)



- [Pati Patni Aur Woh: Rakhi plans new reality show](#)
- [Racism row at Bigg Boss](#)
- [3 killed, 90 injured in Jaipur's fuel depot fire](#)
- [Bigg Boss 3, Episode 25 - fight over racism](#)
- [Matt Mitrione wins over Scott Junk](#)
- [Wal-mart to sell caskets and urns online](#)
- ['Drawn Together' DVD set](#)

cancer patients.

"This study points to an important side effect of oncolytic viral therapy that may limit its efficacy. Knowing this, we can now work on designing a [combination therapy](#) that will inhibit this effect and enhance the action of the viral therapy," said Kaur.

It was also found that in infected tumor cells, the viruses changed the activity levels of three genes linked to blood-vessel growth in gliomas.

They short listed one of these genes, called CYR61, and said that it was nine times more active in virus-treated tumor cells than in uninfected tumors. It was also demonstrated that the higher the dose of virus used, the greater the gene's activity.

In the study, researchers implanted human glioma cells into rodents with a working immune system, then injected the resulting tumors of some with a cancer-killing, or oncolytic, virus called hrR3.

They observed that the treated animals lived 17 days against 14 days for the untreated controls. The virus-treated tumors had almost five times more blood vessels in them than the untreated tumors. Treated tumors also showed changes in gene activity for three of 11 genes thought to play a role in blood-vessel development in gliomas. Of these, CYR61 showing an 8.9-fold increase in activity 12 hours after treatment.

In the end, the researchers verified the virus-caused increase in CYR61 gene activity using several different glioma cell lines and glioma cells from patients, and several strains of active, replicating oncolytic viruses.

"In all cases, we observed a rise in CYR61 gene activity, which indicates that this change in gene activity may represent a host response to the viral infection," said Kaur.

However, non-replicating viruses did not have any effect on the gene's activity.

Kaur and her colleagues are now studying why cells turn on this gene when infected with oncolytic viruses and whether the protein that results from this gene activation might serve as a biomarker reflecting patients' response to oncolytic virus therapy.

The study is published in the latest issue of the journal Molecular Therapy. (ANI)

[Sphere: Related Content](#)

- [Michael Jackson's Autopsy Pictures Leaked?](#)
- [Princess Diana Steps Into The World Of Comics](#)
- [Google Introduces Onebox For Music Search](#)
- [Cliff Lee Creates History At The World Series Opener](#)
- [Seoul National University Mishap](#)
- [India Vs Australia: 2ND ODI Highlights](#)
- ["Modern Family"'s Latest Episode Wins The Heart Of Audiences](#)
- ["Ek Niranjan": An Entertainer All Around](#)
- [Pumpkin Carving Stencil Patterns Features Popular Characters From Twilight And Harry Potter](#)
- [Kandi Burruss Launches New Boutique](#)
- [Mike And Jeanne Merrill Dies, Orphaning Three Minor Girls](#)
- [Publisher's Clearing House Hit By A New Scam](#)

thaindian.com  
MONTHLY PEOPLE  
2,004,335  
27 Oct 2009 **quantcast**

991

## Latest News

- [Air India, Kingfisher airlines aircraft in near collision at Mumbai airport](#)
- [Vijay TV to feature 'Ganesh-Aarthi' in](#)