

# RMRC, Bhubaneswar

(Laxmi Narayan Memorial Library)  
Weekly Current Awareness Service

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“THE VERY EXISTENCE OF LIBRARIES AFFORDS THE BEST EVIDENCE THAT WE MAY YET HAVE HOPE FOR THE FUTURE OF MAN”

- T.S. ELIOT

## About Monday Morning

Monday morning is a weekly E- CAS (Electronic Current Awareness Service) of RMRC Library, Bhubaneswar which carries one Biomedical & health science news item and some useful current medical research links so that the scientists can access the articles. This E- Bulletin starts its journey from 21<sup>st</sup> Nov. 2016. In this maiden attempt we cordially invite your inputs and suggestions to improve in future.

Dr. Banamber Sahoo, Lib & Inf. Officer  
Satyajit Nayak & Twinkle Rout (Lib. Trainee)

## Turmeric compound may kill cancer

NEW YORK: Attaching curcumin — a compound found in turmeric — to nanoparticles can be used to destroy treatment-resistant neuroblastoma, the most common cancer in infants, researchers including one of Indian origin claim. Unique approaches to target tumour cells with nanoparticle delivery systems hold promise for treatment of resistant tumours, such as the high risk neuroblastoma, researchers said.

“High-risk neuroblastoma can be resistant to traditional therapy, and survival can be poor,” said Tamarah J Westmoreland, a paediatric surgeon at Nemours Children’s Hospital in the US. “This research demonstrates a novel method of treating this tumour with-



out the toxicity of aggressive therapy that can also have late effects on the patient’s health,” said Westmoreland, senior author of the study published in the journal *Nanoscale*. Neuroblastomas are cancers that start in early nerve cells and commonly form in the tissue of the adrenal glands, near the kidneys.

High-risk neuroblastoma is hard to

cure and is more likely to become resistant to standard therapies or recur. These cancers are also associated with late effects after treatments have ended, including developmental delays, hearing loss, or other disabilities, researchers said.

Curcumin has been shown to have substantial anti-cancer ability, but its low solubility and poor stability have made its use in medicinal applications challenging. Researchers found that nanoparticles can be used to deliver curcumin to tumour sites. “This shows that nanoparticles can be an effective delivery vehicle for cancer drugs,” said Professor Sudipta Seal, from University of Central Florida (UCF) in the US.

## 1. Ancient DNA counters biblical account of the mysterious Canaanites.

When the pharaohs ruled Egypt and the ancient Greeks built their first cities, a mysterious people called the Canaanites dominated the Near East. Around 4000 years ago, they built cities across the Levant, which includes present-day Lebanon, Israel, Jordan, and part of Syria. Yet the Canaanites left no surviving written records, leaving researchers to piece together their history from secondhand sources. For more details click on the below link.

<http://www.sciencemag.org/news/2017/07/ancient-dna-counters-biblical-account-mysterious-canaanites>

## 2. Brain's stem cells slow ageing in mice.

Stem cells in the brain could be the key to extending life and slowing ageing. These cells — which are located in the hypothalamus, a region that produces hormones and other signalling molecules — can re-invigorate declining brain function and muscle strength in middle-aged mice, according to a study published on 26 July in Nature. For more details click on the below link.

<http://www.nature.com/news/brain-s-stem-cells-slow-ageing-in-mice-1.22367>

## 3. Trigeminal nerve stimulation shows promise for management of traumatic brain injury.

Researchers at the Feinstein Institute for Medical Research and the department of neurosurgery at the Hofstra Northwell School of Medicine, announced today that they have published a paper with research findings that could have implications for the treatment of many neurological conditions, including severe traumatic brain injury (TBI). The team of researchers found that in an animal model with TBI, trigeminal nerve stimulation (TNS) resulted in increased cerebral blood flow (CBF) and oxygen to the brain. These latest findings were published in Scientific Reports. For more details click on the below link.

[https://www.eurekalert.org/pub\\_releases/2017-07/nh-tns072717.php](https://www.eurekalert.org/pub_releases/2017-07/nh-tns072717.php)

## 4. WHO Weekly epidemiological record.

Progress towards measles elimination in Bangladesh, 2000–2016. For more details click on the below link.

<http://apps.who.int/iris/bitstream/10665/258529/1/WER9229-30.pdf?ua=1>



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