

Monday Morning

# RMRC, Bhubaneswar

(Laxmi Narayan Memorial Library)

## Weekly Current Awareness Service

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*“Education is the ability to listen to almost anything without losing your temper or self-confidence .”*

– Robert Frost

### 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  
Poonam Singh Deo & Hemanti Mahali (Lib. Trainee)

### *How biology breaks the ‘cerebral mystique’*



The Biological Mind explores how the brain, body and environment make us who we are

<https://www.sciencenews.org/article/the-biological-mind-alan-jasanoff?mode=topic&context=69>

## 1. Rising CVD Risk with More Body Fat

Cardiovascular risk rises with increasing adiposity, a new study found. The study, online in the European Heart Journal, showed that among both men and women, as adiposity increased, so did the associated risk for CVD. The results add to the growing body of research challenging the idea of the "obesity paradox," which suggests that overweight and obesity may actually help protect against CVD. For more details click on the below link

<https://www.medpagetoday.com/endocrinology/obesity/71795>

## 2. Monitoring Mutations with Microfluidics

Mutations are the driving force for variation and evolution of life, yet most of what is known about mutational dynamics is based on inference from indirect measures. Now, a group of researchers in France have created a microfluidic device that allows the simultaneous observation of hundreds of individual Escherichia coli cells as they divide and mutate over multiple replication cycles. For more details click on the below link

<https://www.the-scientist.com/?articles.view/articleNo/52065/title/Monitoring-Mutations-with-Microfluidics/>

## 3. Unique pattern of brain inflammation may explain neurocognitive impairment in HIV patients on antiretroviral drugs

Scientists discovered another key to how DNA forms loops and wraps inside the cell nucleus -- a precise method of "packing" that may affect gene expression. The journal Science published the research by biologists at Emory University, showing that a process known as hemimethylation plays a role in looping DNA in a specific way. For more details click on the below link

[https://www.eurekalert.org/pub\\_releases/2018-03/ehs-bua031518.php](https://www.eurekalert.org/pub_releases/2018-03/ehs-bua031518.php)

## 4. Chemo-photothermal therapy combination elicits anti-tumor immunity against advanced metastatic cancer

Photothermal therapy (PTT) is a promising cancer treatment modality, but PTT generally requires direct access to the source of light irradiation, thus precluding its utility against disseminated, metastatic tumors. Here, we demonstrate that PTT combined with chemotherapy can trigger potent anti-tumor immunity against disseminated tumors. For more details click on the below link

<https://www.nature.com/articles/s41467-018-03473-9>



### **E- CAS (Current Awareness Service)**

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