

# RMRC, Bhubaneswar

## (Laxmi Narayan Memorial Library)

### Weekly Current Awareness Service

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*“Learning without thought is labor lost;  
Thought without learning is perilous.”*

— Confucius

#### 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)

## EVERY MEAL HAS 100 PLASTIC PARTICLES

Polymers from household items act as source, average human ingests 68,415 fibres per year

LONDON: We could be swallowing over 100 tiny plastic particles with every meal, according to a study which found that polymers from soft furnishings and synthetic fabrics get into household dust and settle on our plates.

Researchers from Heriot-Watt University in the United Kingdom made the discovery after putting Petri dishes containing sticky dust traps on the table next to dinner plates in three homes at meal times. Up to 14 pieces of plastic were discovered in the Petri dishes at the end of a 20-minute meal — the equivalent of 114 plastic fibres falling on the average dinner plate given their much larger size. The



scientists, from Heriot-Watt University concluded that the average person swallows up to 68,415 potentially dangerous plastic fibres annually simply through sitting down just to have a meal.

The researchers set out to compare plastic fibres found in mussels with the amount in the average household meal.

They found fewer than two microplastics in each mussel, which could be linked to the marine environment and went on to conclude that the average person can expect to consume 100 plastic particles a year through eating shellfish. However, they will ingest anything from 13,731 to 68,415 fibres in a year dur-

ing meals because of household dust. “These results may be surprising to some people who may expect the plastic fibres in seafood to be higher than those in household dust,” said Ted Henry, professor at Heriot-Watt University. “We do not know where these fibres come from, but it is likely to be inside the home and the wider environment,” he said. The plastic fibres found in the home-cooked meals did not come from the food or the cooking environment, but household dust, researchers said.

However, long-term effects are still not well understood, and we could be doing more harm than we even realize.

## **1. A new coronavirus is killing pigs in China**

An unknown killer preying on pigs in China has been identified as a new kind of coronavirus. And like the deadly SARS virus, this one also got its start in bats. In late 2016, pigs mysteriously started having intense diarrhea and vomiting on farms in China's southeastern Guangdong province. By May 2017, the disease had killed 24,693 piglets. Tests failed to pin the outbreak, which has since waned, on common pig viruses. For more details click on the below link

<https://www.sciencenews.org/blog/science-ticker/new-coronavirus-killing-pigs-china>

## **2. New blood test found to predict onset of TB up to two years in advance**

A new blood test has been found to more accurately predict the development of tuberculosis up to two years before its onset in people living with someone with active TB, according to research published online in the American Journal of Respiratory and Critical Care Medicine, an American Thoracic Society journal. Those living with someone with active TB are at highest risk for developing the disease, yet only about 5-20 percent of people infected with tuberculosis actually develop TB. For more details click on the below link

[https://www.eurekalert.org/pub\\_releases/2018-04/ats-nbt040318.php](https://www.eurekalert.org/pub_releases/2018-04/ats-nbt040318.php)

## **3. Abundant Neurogenesis Found in Adult Humans' Hippocampi**

Adult human hippocampi are home to thousands of immature neurons, researchers report today (April 5) in Cell Stem Cell. The result runs counter to a paper published last month in Nature that found no evidence of neural precursor cells or immature neurons in adults. Such contradictory findings raise questions about researchers' understanding of neurogenesis in human adult hippocampi, which are central to learning and memory. For more details click on the below link

<https://www.the-scientist.com/?articles.view/articleNo/52230/title/Abundant-Neurogenesis-Found-in-Adult-Humans--Hippocampi/>

## **4. Whole-genome sequencing of multiple myeloma reveals oncogenic pathways are targeted somatically through multiple mechanisms**

Multiple myeloma (MM) is a biologically heterogeneous malignancy, however, the mechanisms underlying this complexity are incompletely understood. We report an analysis of the whole-genome sequencing of 765 MM patients from CoMMpass. By employing promoter capture Hi-C in naive B cells, we identify cis-regulatory elements (CREs) that represent a highly enriched subset of the non-coding genome in which to search for driver mutations. For more details click on the below link

<https://www.nature.com/articles/s41375-018-0103-3>



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

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