

# RMRC, Bhubaneswar

## (Laxmi Narayan Memorial Library)

### Weekly Current Awareness Service

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LIBRARIAN ARE MORE THAN BOOKS, LIBRARIANS ARE BETTER THAN GOOGLE . YOU CAN NOT REPLACE WITH VISUAL OR NON-VISUAL TO THEM. LIBRARIAN IS THE BEST ACADEMICIAN IN ANY UNIVERSITY SYSTEM.

-A.P.J. ABDULKALAM.

#### 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)

#### MORE THAN HEARSAY

## Noisy streets up male infertility

Seoul scientists' study warns against exposure to low decibel levels, especially at night

SEOUL: Prolonged exposure to noises of a busy street or even an air conditioner — particularly at night — may up infertility in men, a study warns.

The scientists, from Seoul National University in the Republic of Korea, say it is important to consider noise when assessing environmental conditions that contribute to infertility.

They found that exposure above the WHO night noise level (55 dB — equivalent to a suburban street) is linked to a significant increase in infertility.

Noise has been linked to health problems, such as heart disease and mental illness, and has been shown to change social behaviour and interfere with the performance of complex tasks. Previous research focused on fertility in women has shown a link between exposure to noise and birth-related problems, such as premature birth, spontaneous abortion and congenital malformations.

The study reveals that long-term exposure to relatively low levels of noise, particularly at night, may contribute to the development of infertility in men.



#### Not gender-specific

Previous research focused has shown a link between exposure to noise and birth-related problems, such as premature birth and spontaneous abortion.

“Infertility is becoming a significant health issue because of unexpected adverse effects on health, quality of life and heavy expenditures on the health

system,” said Jin-Young Min from Seoul National University

Worldwide infertility problems affect one in six couples at least once in lifetime, either temporarily or permanently.

This may be down to a variety of causes, such as genetic abnormalities, infectious disease, environmental agents or certain behaviours.

Min wanted to find out whether environmental exposure to noise, for example at work, has an impact on male infertility. The researchers analysed a health insurance dataset, focusing on 2,06,492 men aged 20-59. They calculated the levels of noise exposure using information from the National Noise Information System combined with the men's postal codes.

In the eight years covered by the study (2006-2013), 3,293 had an infertility diagnosis. After adjusting the data for variables like age, income, BMI and smoking, they found the chances of being diagnosed infertile were significantly higher in men exposed to noise over 55 dB during night time.

## 1. New study reveals new drug target for gout and other inflammatory diseases.

Particle-driven diseases sound exotic and include things like silicosis and asbestos, but actually also include much more common diseases like Alzheimer's, gout and even atherosclerosis. A new report published online in the *Journal of Leukocyte Biology* suggests a potential drug target for particle-driven diseases like these and many others. Specifically, the study reveals that particle-induced cell death depends on multiple redundant cathepsins, or enzymes used to digest proteins. By inhibiting or silencing these cathepsins in macrophages (white blood cells that ingest foreign particles), the researchers found that several key proinflammatory events induced by sterile particles are blocked, including cell death. For more details click on the below link.

[https://www.eurekalert.org/pub\\_releases/2017-06/foas-nsr063017.php](https://www.eurekalert.org/pub_releases/2017-06/foas-nsr063017.php)

## 2. A billion-year arms race against viruses shaped our evolution.

Viruses and their hosts have been at war for more than a billion years. This battle has driven a dramatic diversification of viruses and of host immune responses. Although the earliest antiviral systems have long since vanished, researchers may now have recovered remnants of one of them embedded, like a fossil, in human cells. For more details click on the below link.

[http://www.nature.com/news/a-billion-year-arms-race-against-viruses-shaped-our-evolution-1.22191?WT.ec\\_id=NEWSDAILY-20170629](http://www.nature.com/news/a-billion-year-arms-race-against-viruses-shaped-our-evolution-1.22191?WT.ec_id=NEWSDAILY-20170629)

## 3. Earlier menopause puts women at greater risk of heart failure, study shows.

Women who start the menopause earlier have a greater risk of being taken to hospital with heart failure, researchers have found. The US-based study also revealed that women who have never given birth have more than a two-fold increase in the risk of a common type of the condition, known as diastolic heart failure, compared with women who have children. For more details click on the below link.

<https://www.theguardian.com/science/2017/may/15/earlier-menopause-puts-women-at-greater-risk-of-heart-failure-study-shows>

## 4. WHO Weekly Epidemiological Record (WER).

Relevé épidémiologique hebdomadaire. For more details click on the below link.

<http://apps.who.int/iris/bitstream/10665/255778/1/WER9226.pdf?ua=1>



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

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