

# RMRC, Bhubaneswar

(Laxmi Narayan Memorial Library)  
Weekly Current Awareness Service

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“A library is like an island in the middle of a vast sea of ignorance, particularly if the library is very tall and the surrounding area has been flooded.”

- Lemony Snicket, Horseradish

Monday morning team requests you to visit the library regularly.

## 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)

## Half-raw chicken can cause paralysis

Campylobacter present in meat can trigger Guillain-Barre Syndrome when it is undercooked

NEW YORK: Researchers in the United States have identified a bacterium, commonly found in undercooked chicken, that may cause Guillain-Barre Syndrome (GBS). GBS is an autoimmune disorder and is the world's leading cause of acute neuromuscular paralysis in humans.

The research showed that if chicken isn't cooked to the proper minimum internal temperature, bacteria — Campylobacter jejuni — which still exist in the food can trigger GBS.

“The study showed that it takes a certain genetic makeup combined with a Campylobacter (bacteria) strain to cause this disease,” said lead author Linda Mansfield,

Professor at the Michigan State University, in the US. Further, most of the bacteria strains were found to be antibiotic-resistant, with some causing more harm than good.

Use of certain antibiotics aggravated neurological signs, lesions and the number of immune antibodies that can



### Time Limit

One can keep raw chicken frozen for about 2 years. Though it does not change taste, it is advisable not to consume chicken stored for such a prolonged time period.

mistakenly attack a patient's own organs and tissues.

The exact cause of this autoimmune disease is still uncertain, although some studies have linked GBS with the Zika virus, the researchers said. Campylobacter jejuni is also known to trigger other autoimmune disorders such as inflammatory bowel disease and Reit-

er's arthritis.

In the study, the researchers successfully produced three preclinical models of GBS that represent two different forms of the syndrome seen in humans.

Many patients with GBS are critically ill and cannot participate in clinical trials. Thus, the models hold great potential for discovery of new treatments for this paralysis.

“Our models now provide a unique opportunity to understand how your personal genetic type may make you more susceptible to certain forms of GBS,” Mansfield added.

Mansfield now wants to move forward quickly to test drugs against GBS in her models.

“Of course, new treatments would be wonderful, but therapeutics to prevent GBS from developing in the first place would be the best strategy so that people don't have to suffer with paralysis,” she said. The study was published in *the Journal of Autoimmunity*.

1. **WHO Weekly epidemiological record.**  
[http://apps.who.int/iris/bitstream/10665/251908/1/WER9149\\_50.pdf?ua=1](http://apps.who.int/iris/bitstream/10665/251908/1/WER9149_50.pdf?ua=1)
  2. **Pitch-aware marmosets provide new model for human hearing.**  
<http://www.nature.com/news/pitch-aware-marmosets-provide-new-model-for-human-hearing-1.21140>
  3. **So far, Zika is showing up in the United States just where the modelers said it would.**  
<http://www.sciencemag.org/news/2016/05/yes-zika-will-soon-spread-united-states-it-won-t-be-disaster>
  4. **United Kingdom gives green light for mitochondrial replacement technique.**  
<http://www.sciencemag.org/news/2016/12/uk-gives-green-light-mitochondrial-replacement-technique>
  5. **This is the future of the fight against cancer.**  
<http://thenextweb.com/tech/2016/12/15/are-we-just-one-hack-away-from-curing-cancer/>
  6. **WHO issues new selected practice recommendations for contraceptive use.**  
[http://who.int/reproductivehealth/topics/family\\_planning/SPR-3/en/](http://who.int/reproductivehealth/topics/family_planning/SPR-3/en/)
  7. **The invisible child: childhood heart disease in global health.**  
[http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(16\)32185-7/fulltext](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(16)32185-7/fulltext)
  8. **The Lancet: Immunotherapy drug gives non-small-cell lung cancer patients extra 4 months of life.**  
[https://www.eurekalert.org/pub\\_releases/2016-12/tl-tli120916.php](https://www.eurekalert.org/pub_releases/2016-12/tl-tli120916.php)
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## **E- CAS ( Current Awareness Service)**

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