

## ARTICLE RANKINGS

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Cancer Biology

Cardiovascular Biology

Cardiovascular Disorders

Cell Biology

Chemical Biology

Critical Care &amp; Emergency Medicine

Dermatology

Developmental Biology

Diabetes &amp; Endocrinology

Ecology

Evolutionary Biology

Gastroenterology &amp; Hepatology

Gastrointestinal Biology

Genomics &amp; Genetics

Hematology

Immunology

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## Current Top 10

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- 21**  **Reprogramming adult Schwann cells to stem cell-like cells by leprosy bacilli promotes dissemination of infection.** 
- Masaki T, Qu J, Cholewa-Waclaw J, Burr K, Raaum R, Rambukkana A. Cell. 2013 Jan 17; 152(1-2):51-67

*This article shows how Mycobacterium leprae is able to reprogram Schwann cells, turning them to a stage of stem-like cells. Then, bacteria profit from their migratory properties to...*

**8 Recommendations** | Carlos Morel and Cristiana Santos de Macedo NEW 19 Dec 2013 | Yoshiko Takahashi and Yuji Atsuta | Guy Zimmerman | Serge Mostowy and Maria J Mazon-Moya | Steven Blanke and Robin Holland | Jacques Neefjes and Jeroen Bakker | Pascale Cossart and Mélanie Hamon | Mark Bothwell


GOOD FOR TEACHING | INTERESTING HYPOTHESIS | NEW FINDING | NOVEL DRUG TARGET

- 17**  **Cerebral organoids model human brain development and microcephaly.** 
- Lancaster MA, Renner M, Martin CA, Wenzel D ... Homfray T, Penninger JM, Jackson AP, Knoblich JA.  Nature. 2013 Sep 19; 501(7467):373-9

*The cerebral cortex is one of the most complex structures in the body, and it always has been a challenge to model human cortical development and disease in a dish, recapitulating...*

**7 Recommendations** | Isaac Kohane and Daria Prilutsky 10 Dec 2013 | Carol MacKintosh | Robert Sapolsky | Jian Feng | Maarten van Lohuizen and Gaetano Gargiulo | Elizabeth Cropper and Hongyan Zou | J Victor Garcia-Martinez

GOOD FOR TEACHING | INTERESTING HYPOTHESIS | NEW FINDING | TECHNICAL ADVANCE

- 14**  **A trial of intraoperative low-tidal-volume ventilation in abdominal surgery.** 
- Futier E, Constantin JM, Paugam-Burtz C, Pascal J ... Bazin JE, Pereira B, Jaber S, IMPROVE Study Group.  N Engl J Med. 2013 Aug 1; 369(5):428-37

*This study closes the gap in the surgical setting that lung-protective ventilation is beneficial and should no longer be questioned. Lung-protective ventilation should now be implemented in intermediate-risk and high-risk patients undergoing major abdominal surgery.*

**7 Recommendations** | Brian Gehlbach NEW 12 Dec 2013 | Michael Ganter | Ronald Pearl and Jim Wong | Bruce Biccand and Reitze Rodseth | Michael Fessler | Michael O'Connor | Jesús Villar