



The Scholarly Publishers' Collaborative Network

## This Month from the Collaborative

July 2010



## This Month in The FASEB Journal

July 2010

### WHAT'S ON THE COVER

This month's cover is "Arthropoda, Insecta-Hymenoptera" from Rudolph Leuckart's Wandtafeln (Wall Charts). Rudolph Leuckart (1822–1898), known as the "Father of Parasitology," was a pioneer of 19th century zoology and is best known for his studies of vertebrate infections, chiefly tapeworm and trichinosis. Together with von Zenker, he documented the life cycle of *Trichinella spiralis* in hogs and men, which led Rudolph Virchow to establish the first meat inspection laws in Germany.

Read more here: <http://www.fasebj.org/content/vol24/issue7/cover.shtml>

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### Honey as an Antibiotic: Scientists Identify a Secret Ingredient in Honey that Kills Bacteria

Sweet news for those looking for new antibiotics: A new research report explains for the first time how honey kills bacteria.

Read the summary here: [http://www.eurekalert.org/pub\\_releases/2010-06/foas-haa063010.php](http://www.eurekalert.org/pub_releases/2010-06/foas-haa063010.php)

Read the abstract here: <http://www.fasebj.org/cgi/content/abstract/24/7/2576>

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## WHAT'S UP FRONT

### Pattern Recognition and Gestalt Psychology: The Day Nüsslein-Volhard Shouted "Toll!"

Lately much of human pathobiology has been chalked up to Toll-like receptors, molecules that tell our innate immune system that there is a stranger at the door. Within the past year, The FASEB Journal has published papers on the role of these molecules in stem-cell activation, dengue fever, bacterial sepsis, microRNA processing, release of leukotrienes, and—no kidding—obesity. Other recent reports have implicated these molecules in human ailments that range from gingivitis to Lyme disease; from lupus to titanium hips, and from atherosclerosis to respiratory ailments brought on by the World Trade Center disaster... But where did "Toll" come from?

Read the full editorial here: <http://www.fasebj.org/cgi/content/full/24/7/2137>

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### Book Review: *The National Institutes of Health: 1991–2008* by John A. Kastor (2010), Oxford University Press, 2010.

The National Institutes of Health has sat for many portraits over the years. Some of these have claimed that it is without precedent in fostering profound discoveries under its own roof, which in fact it has only rarely done, the cracking of the genetic code by Marshall Nirenberg being a sterling case. NIH scientists regularly make very important advances, such as the discovery of the HIV CCR5 receptor, but do not often create scientific revolutions à la Nirenberg.

Read the full book review here: <http://www.fasebj.org/cgi/content/full/24/7/2142>

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## WHAT'S FEATURED

### Virgin Olive oil and a Mediterranean Diet Fight Heart Disease by Changing how our Genes Function

Everyone knows olive oil and a Mediterranean diet are associated with a lower risk for cardiovascular disease, but a new research report offers a surprising reason why: These foods change how genes associated with atherosclerosis function.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-06/foas-voo063010.php](http://www.eurekalert.org/pub_releases/2010-06/foas-voo063010.php)

Get the abstract here: <http://www.fasebj.org/cgi/content/abstract/24/7/2546>

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### Why BPA Leached From "Safe" Plastics may Damage Health of Female Offspring

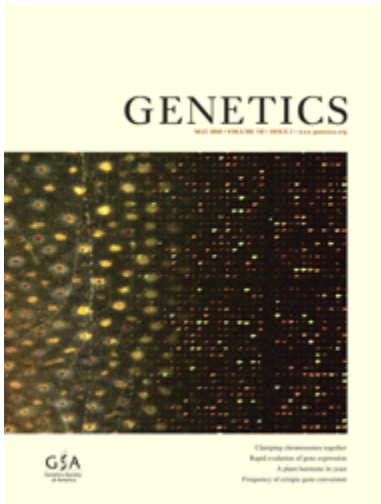
Here's more evidence that "safe" plastics are not as safe as once presumed.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-02/foas-wbl022510.php](http://www.eurekalert.org/pub_releases/2010-02/foas-wbl022510.php)

Get the abstract here: <http://www.fasebj.org/cgi/content/short/24/7/2273>

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## WHAT'S ELSEWHERE



### This Month in *Genetics*

#### 'Psychedelic' Maize may Help Increase Crop and Biofuel Yields

More than 40 years have passed since Woodstock, but psychedelics still have people seeing colors — this time, in maize, and the significance is no hallucination.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-06/gsoa-mm060710.php](http://www.eurekalert.org/pub_releases/2010-06/gsoa-mm060710.php)

Get the abstract here: <http://www.genetics.org/cgi/content/short/185/1/221>

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### This Month in *The Journal of Leukocyte Biology*

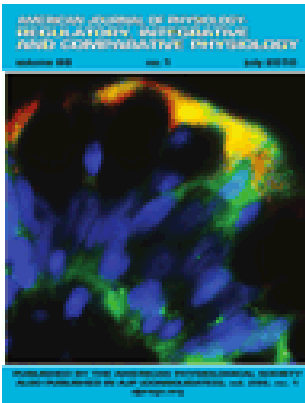
**ABOUT THE COVER:** Histopathology of CHS-elicited ear pinnae in naïve mice or mice treated with bortezomib or PBS—see Yanaba et al., "The proteasome inhibitor bortezomib inhibits T cell-dependent inflammatory responses," page 117.

#### Cancer Drug Shows Promise for Treating a Wide Range of Inflammatory Diseases

Those looking for a new treatment for a range of inflammatory diseases like arthritis, multiple sclerosis, inflammatory bowel disease, and lupus may need look no further than a drug already available for treating cancer.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-06/foas-cds063010.php](http://www.eurekalert.org/pub_releases/2010-06/foas-cds063010.php)

Get the abstract here: <http://www.jleukbio.org/cgi/content/abstract/88/1/117>



## This Month in *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology*

**ABOUT THE COVER:** Soluble adenylyl cyclase (sAC) in toadfish intestine. Immunofluorescence detection using antibodies against dogfish sAC (red) and mammalian sAC (R7, green). Yellow indicates colocalization of signals. Nuclei are stained with DAPI (blue). Tresguerres M, Levin LR, Buck J, Grosell M. Modulation of NaCl absorption by  $[HCO_3^-]$  in the marine teleost intestine is mediated by soluble adenylyl cyclase. *Am J Physiol Regul Integr Comp Physiol*. First published April 21, 2010; doi:10.1152/ajpregu.00761.2009

### Hyperoxia may Slow the Formation of Wrinkles

New research indicates that oxygen may help combat the formation of wrinkles by lessening tissue damage done by UVB rays.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-06/aps-hms062910.php](http://www.eurekalert.org/pub_releases/2010-06/aps-hms062910.php)

Get the abstract here: <http://ajpregu.physiology.org/cgi/content/abstract/ajpregu.00199.2010v1>



## This Month in *American Journal of Psychiatry*

### Switching Medications and Continuing Treatment Could Help Teens With Severe Depression

More than one-third of teenagers with treatment-resistant depression – many of whom had been depressed for more than two years – became symptom-free six months after switching their medication or combining a medicine switch with cognitive behavioral therapy.

Get the summary here: [http://www.eurekalert.org/pub\\_releases/2010-05/usmc-sma051410.php](http://www.eurekalert.org/pub_releases/2010-05/usmc-sma051410.php)

Get the abstract here: <http://ajp.psychiatryonline.org/cgi/content/abstract/appi.ajp.2010.09040552v1>

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**\*\*WHAT YOU MIGHT HAVE MISSED\*\***

(a special section only for those who scroll all the way down)

**DDT is Back: let us Spray!**

Yes, DDT is back. In September [2006], The World Health Organization held a press conference to promote the wide-spread use of DDT in Africa. Dr. Arata Kochi, head of the WHO malaria program, assured the world that DDT is not only the most effective insecticide against malaria but also posed no health risk when properly used. "Expanding its use is essential to reviving the flagging international campaign to control the disease," he said.

Get the full story here: <http://www.fasebj.org/cgi/content/full/20/14/2427>

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