

NATURE REVIEW

REVIEWS AND COMMENT FROM THE NATURE PUBLISHING GROUP



▲ **Problems in monitoring horizontal gene transfer in field trials of transgenic plants** Heinemann, J. A. & Traavik, T. **Monitoring and modeling horizontal gene transfer** Nielsen, K. M. & Townsend, J. P. *Nature Biotechnology* September (2004). Two Perspective articles examine how horizontal gene transfer (HGT) might be tracked in the field to provide accurate risk assessments.



▲ **Pathways of chaperone-mediated protein folding in the cytosol**

Young, J. C., Agashe, V. R., Siegers, K. & Hartl, F. U. *Nature Reviews Molecular Cell Biology* October (2004)

● **From structure to disease: the evolving tale of aquaporin biology** King, L. S., Kozono, D. & Agre, P. **Water is essential for life on earth, but how is water transported in and out of cells?** From bacteria to man, specific channel proteins known as 'aquaporins' function in water homeostasis. Here, King *et al.* review the structure, function and regulation of these important proteins.

● **Outlook on Malaria** *Nature* 19 Aug (2004) **Nature** tackles the war on malaria with a collection of news and comment — including malaria-related research papers — that is free for six months.

● **Immune responses to *Listeria monocytogenes*** Pamer, E. G. *Nature Reviews Immunology* October (2004) In this review, Eric Pamer reviews the use of the bacterium, *Listeria monocytogenes*, to probe the nature of the battle between the host and the pathogen. This bacterium is easy and safe to work with and has a tractable mouse model. Immunologists and microbiologists alike can learn about the host-pathogen stand-off using this system.

● **Mast-cell responses to pathogens** Marshall, J. S. *Nature Reviews Immunology* October (2004)

● **NIH lab shutdown raises concerns about US prion research** Ready, T.

Nature Medicine 08 July (2004)

Hot on the heels of the second case of variant Creutzfeldt–Jakob disease (vCJD) transmitted by a blood transfusion in the UK, and a UK-based trial of potential vCJD treatments, the United States NIH prion lab is closing. This news item examines how this might impact prion research stateside.

▼ **Nature Reviews Proteomics Collection.** This collection draws together content from *Nature Reviews Molecular Cell Biology*, *Nature Reviews Cancer*, *Nature Reviews Genetics* and *Nature Reviews Drug Discovery* and provides an overview of the latest advances in proteomic research, including proteomic analysis of mitochondrial changes in cancer cells, ways to improve peptide-sequencing techniques and the use of proteomic technologies to analyse clinical samples. Visit www.nature.com/reviews/focus/proteomics for free online access for six months. Supported by Sigma-Aldrich.

