

NATURE REVIEW

REVIEWS AND COMMENT FROM THE NATURE PUBLISHING GROUP



▲ **A new canon.** Pourquié, O. *Nature* 20 January (2005). This News and Views article discusses a recent report that describes a link between Wnt proteins and a G-protein signalling cascade. Wnt signals through the G-protein-coupled receptor Frizzled to activate adenylyl cyclase, which results in the activation of protein kinase A and subsequent transcriptional changes.



▲ **The tetraspanin web modulates immune-signalling complexes.** Levy, S. & Shoham, T. *Nature Reviews Immunology* February (2005)

• **Lipid regulation of the synaptic vesicle cycle.**

Rohrbough, J. & Broadie, K. *Nature Reviews Neuroscience* February (2005)

This Review article outlines how neurotransmission is modulated by lipids and lipid-modifying enzymes.

• **Close encounters of different kinds: dendritic cells and NK cells take centre stage.**

Degli-Esposti, M. A. & Smyth, M. J. *Nature Reviews Immunology* February (2005)

The authors of this article highlight the impact of crosstalk between natural killer cells and dendritic cells on the design of immune-based therapies for the control of infection and cancer.

• **Control of DNA replication and its potential clinical exploitation.**

Gonzalez, M. A., Tachibana, K. K., Laskey, R. A. & Coleman, N. *Nature Reviews Cancer* February (2005)

This Innovation article discusses the potential use of minichromosome maintenance proteins and their regulators, which limit DNA replication to one time per cell cycle, as clinical biomarkers.

• **A mismatched role for Bcl-2.**

La Thangue, N. B. *Nature Cell Biology* February (2005)

The finding that the anti-apoptotic protein Bcl2 is linked to DNA mismatch repair is discussed in this News and Views piece.

• **The search for the retinoblastoma cell of origin.**

Dyer, M. A. & Bremner, R. *Nature Reviews Cancer* February (2005)

• **The humanization of N-glycosylation pathways in yeast.**

Wildt, S. & Gerngross, T. U. *Nature Reviews Microbiology* February (2005)

The authors review the progress in humanizing glycosylation pathways in yeast and filamentous fungi to overcome their one main drawback in making therapeutic recombinant proteins.

▼ **Neonatal screening by DNA microarray: spots and chips.**

Green, N. S. & Pass, K. A. *Nature Reviews Genetics* February (2005)

In this Opinion article, the issue of whether genetic screening of newborns could be improved by switching from protein analysis to DNA-microarray-based screens is discussed.

