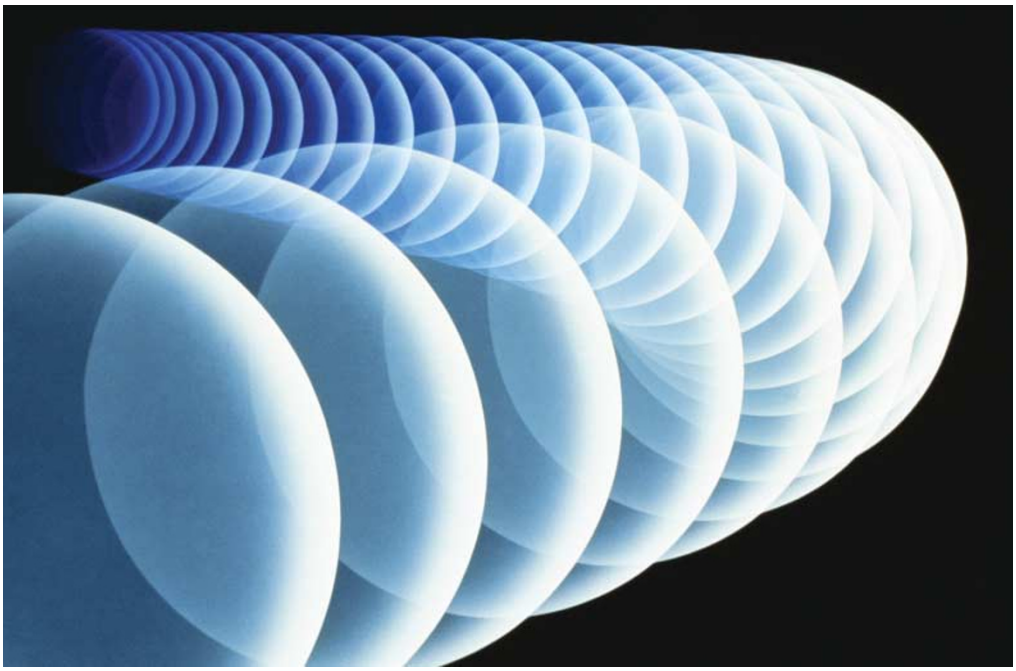
# NATUREVIEW

REVIEWS AND COMMENT FROM THE NATURE PUBLISHING GROUP

▲ **As time glows by** Johnson, C. J. *Nature* 02 July (2004)
**This News and Views article comments on the exciting finding, using a self-luminescent reporter strain, that cell–cell communication does not seem to coordinate circadian rhythms in cyanobacteria — model systems for biological clock research. Cyanobacteria, with their exquisitely precise clock, can now be used as model systems for the analysis of circadian rhythms in single cells.**

▲ **RIDging an antiviral defense — its all in the cards**
Levy, D. E. & Marie, I. J
*Nature Immunology* July (2004)
**Virus detection has been linked to the interferon-β induction pathway through the function of a newly characterized cytoplasmic helicase.**

• **Focus Issue on Cytoskeletal dynamics**
*Nature Reviews Molecular Cell Biology,* August (2004)

• **HIV and SIV CTL escape: implications for vaccine design**
Goulder, P. J. R. & Watkins, D. I.
*Nature Reviews Immunology*
August (2004)
**Cytotoxic T lymphocytes are important for controlling HIV infection. This review examines the intersection of the cytotoxic T-lymphocyte immune response and viral escape in virus pathogenesis in the broader context of vaccine design.**

• **A cool way to make proteins**
Schein, C. H.
*Nature Biotechnology*
July (2004)
**This News and Views article discusses a significant advance in protein over-expression technology in bacteria that allows proteins to be produced at lower temperatures. A new vector that upregulates gene expression between 15°C and 23°C has been developed so that after reducing the temperature, bacterial cells become 'protein-producing machines' devoted to synthesizing recombinant protein.**

• **Retroviruses under editing crossfire**
Trono, D.
*EMBO Reports* July (2004)
**Didier Trono discusses the finding that a second member of the human APOBEC3 family is an innate antiretroviral factor that is incorporated into the virion during virus assembly and can deaminate deoxycytidine residues during viral minus-strand DNA synthesis, leading to degradation or hypermutation.**

▼ **Cell motility under the microscope: *Vorsprung durch Technik***
Dunn, G. A. & Jones, G. E.
*Nature Reviews Molecular Cell Biology,* August (2004)
**As part of the Focus issue on cytokeletal dynamics, this article examines the development of the microscope for studying cell motility — a fascinating read for all microbiologists.**