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Agrobacterium tumefaciens VirE2 protein (fused to the β-glucuronidase reporter protein, which generates the blue stain) accumulates in the nucleus of a tobacco cell. VirE2, a single-stranded DNA binding protein that associates with Agrobacterium T-strand DNA, is proposed to target this DNA directly into the plant nucleus during infection. See page 1802. Insight into how Agrobacterium infects plants may lead to better control over transformation and bioengineering of plants. [Photomicrograph: J. Zupan]

RESEARCH ARTICLE

Crystal Structure at 3.5 Å Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor
L. A. Kohlstaedt, J. Wang, J. M. Friedman, P. A. Rice, T. A. Steitz

Luminescent Color Image Generation on Porous Silicon
V. V. Doan and M. J. Sailor

Energetics of Large Fullerenes: Balls, Tubes, and Capsules
G. B. Adams, O. F. Sankey, J. B. Page, M. O'Keefe, D. A. Drabold

The Role of Solvent Viscosity in the Dynamics of Protein Conformational Changes
A. Ansari, C. M. Jones, E. R. Henry, J. Hofrichter, W. A. Eaton

Probing Protein Stability with Unnatural Amino Acids

Nuclear Localization of Agrobacterium VirE2 Protein in Plant Cells
V. Citoysky, J. Zupan, D. Warnick, P. Zambrisky

Overlapping But Nonidentical Binding Sites on CD2 for CD58 and a Second Ligand CD59
W. C. Hahn, E. Menu, A. L. M. Bothwell, P. J. Sims, B. E. Bierer

Cytoplasmic Domain Heterogeneity and Functions of IgC Fc Receptors in B Lymphocytes

Stage-Specific Adhesion of Leishmania Promastigotes to the Sandfly Midgut

Reversal of the Orientation of an Integral Protein of the Mitochondrial Outer Membrane
J.-M. Li and G. C. Shore

Peptides Presented to the Immune System by the Murine Class II Major Histocompatibility Complex Molecule I-A^d

Neurotransmitter Release from Synaptotagmin-Deficient Clonal Variants of PC12 Cells

Involvement of the N-methyl d-aspartate (NMDA) Receptor in the Synapse Elimination During Cerebellar Development
S. Rabacchi, Y. Bailly, N. Delhaye-Bouchaud, J. Mariani

TECHNICAL COMMENTS

Expression of Intra-MHC Transporter Genes and Class I Antigens in Diabetes-Susceptible NOD Mice

Images in silicon

*$*$ Indicates accompanying feature

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