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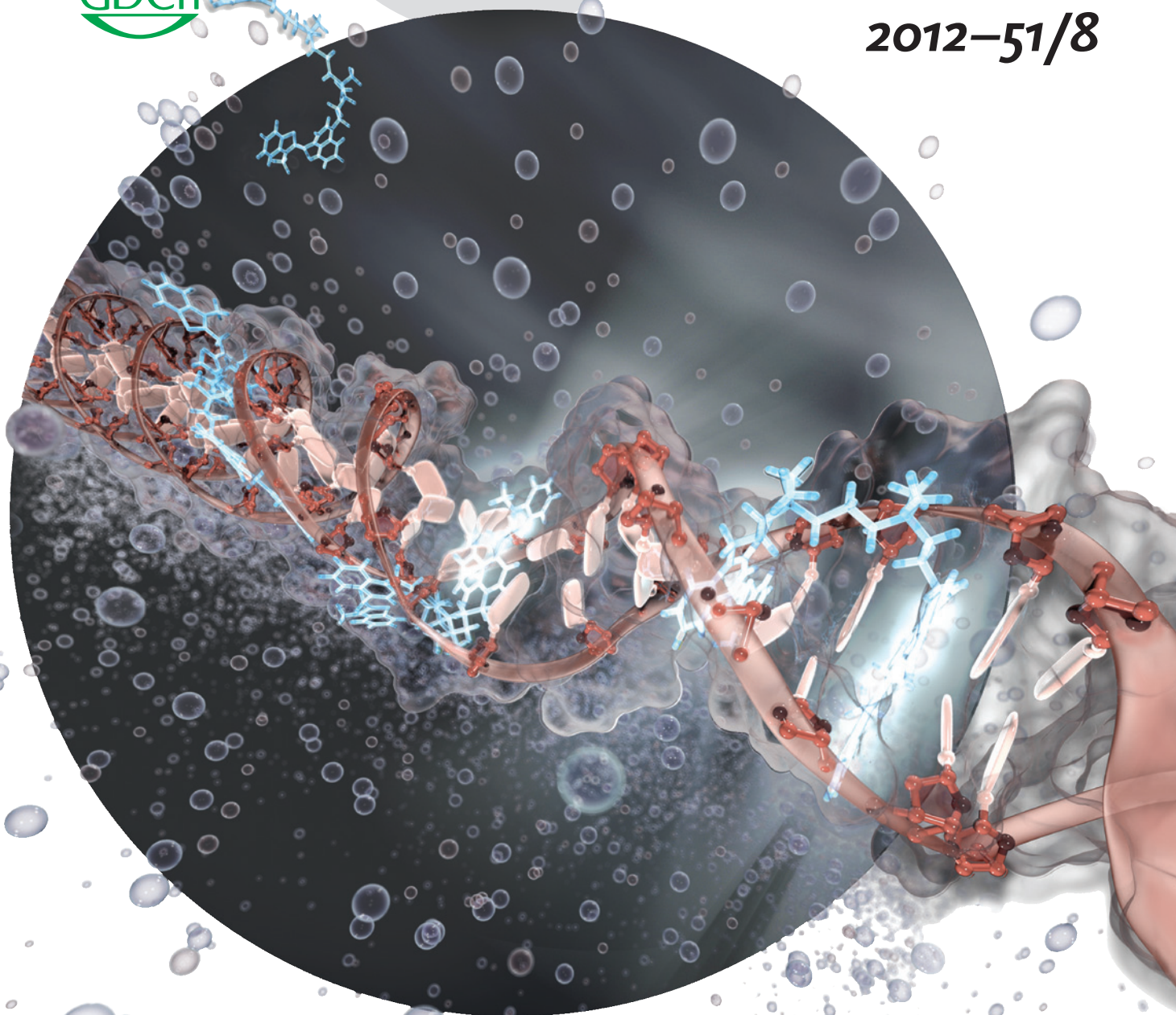
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HIV Protease Inhibitors

Review by A. K. Ghosh et al.

Organic Electronics

Minireview by A. Ajayaghosh et al.

Highlights: Flexible Optics • C-H Alkenylation

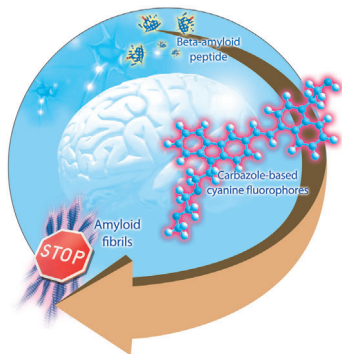
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Cover Picture

D. Hern Paik and Thomas T. Perkins*

Intercalation of YOYO a bisintercalating DNA dye, was studied by using single-molecule force spectroscopy. In their Communication on page 1811 ff., D. H. Paik and T. T. Perkins show that force-enhanced intercalation, traditionally ascribed to the dye in solution binding to the DNA, can occur from a reservoir of bound dye that remained out of equilibrium with the free dye for long periods of time (> 2 hours). Hence, binding/unbinding and intercalation/de-intercalation are distinct processes that can occur on very different time scales.

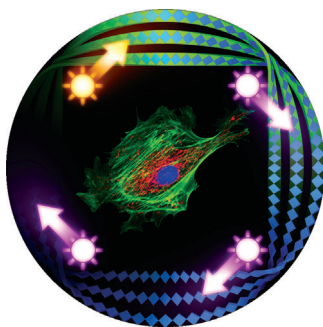
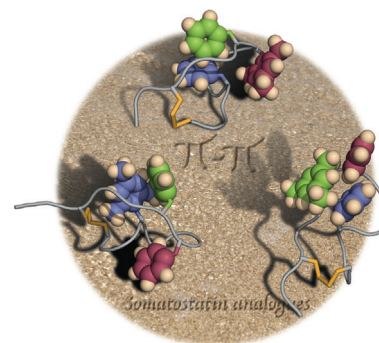


Alzheimer's Therapeutics

A carbazole-based cyanine fluorophore is shown by H.-W. Li, K. K. L. Yung, M. S. Wong, and co-workers in their Communication on page 1804 ff. to inhibit $A\beta_{(1-40)}$ fibrillogenesis in the pathogenesis of Alzheimer's disease.

Conformation Analysis

In their Communication on page 1820 ff., M. J. Macias, A. Riera, and co-workers describe that peptidic analogues obtained by replacing each phenylalanine with mesitylalanine are conformationally more rigid than the parent hormone somatostatin.



Hydrogels

In their Communication on page 1816 ff., K. S. Anseth and C. A. DeForest report spatiotemporal control over the dynamic presentation of bioligands that are reversibly patterned into hydrogels by using two different photochemical reactions.