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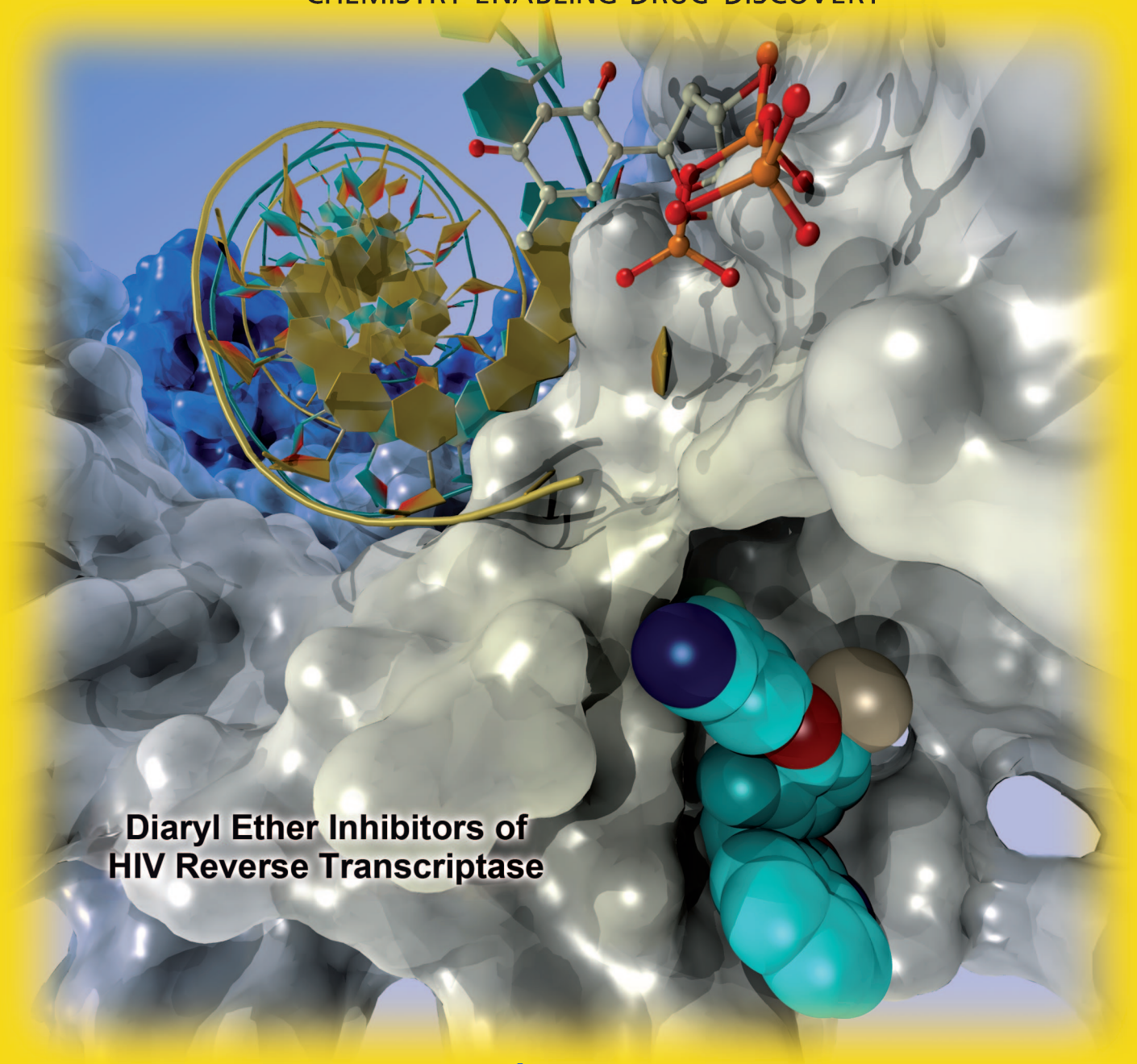
CHEMISTRY ENABLING DRUG DISCOVERY



Diaryl Ether Inhibitors of HIV Reverse Transcriptase

1/2009

Minireview: CDK–Cyclin Complex Inhibitors (M. Orzáez)
Communications: From Molecular Shape to Potent Bioactive Agents: Parts I and II (G. Schneider)

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Cover Picture

Zachary K. Sweeney*, Joshua J. Kennedy-Smith, Jeffrey Wu, Nidhi Arora, J. Roland Billedeau, James P. Davidson, Jennifer Fretland, Julie Q. Hang, Gabrielle M. Heilek, Seth F. Harris, Donald Hirschfeld, Petra Inbar, Hassan Javanbakht, Jesper A. Jernelius, Qingwu Jin, Yu Li, Weiling Liang, Ralf Roetz, Keshab Sarma, Mark Smith, Dimitrio Stefanidis, Guoping Su, Judy M. Suh, Armando G. Villaseñor, Michael Welch, Fang-Jie Zhang, and Klaus Klumpp

The cover picture shows a cut-away view of a diaryl ether non-nucleoside reverse transcriptase inhibitor (cyan) bound to HIV reverse transcriptase. The cartoon representation of the DNA template (teal) and primer (gold) strands, as well as the incoming nucleotide molecule, are shown as landmarks and aligned from a separate structure (PDB code 1RTD). Binding of the non-nucleoside inhibitor interferes with the precise alignment and dynamics of the growing strand and the polymerase catalytic center. For more details, see the Full Paper by Z. K. Sweeney et al. on p. 88 ff.