Abstracts

Oral Session I

Retrovirus Infections – Part I

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New Approaches For Synthesizing Antiviral Nucleosides.

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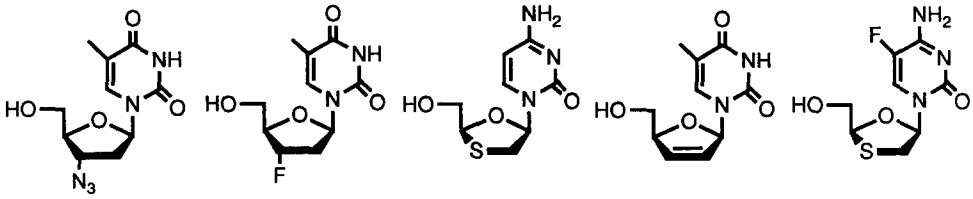
Classical synthetic approaches to antiviral nucleosides typically: (a) involve the use of expensive starting materials (*e.g.*, other nucleosides, such as thymidine) or (b) start with inexpensive carbohydrate derivatives, but exhibit low diasteroselectivity during the formation of the glycosidic linkage. We will discuss a number of novel synthetic protocols which utilize inexpensive, acyclic precursors and which proceed with high stereocontrol. The methodology will be illustrated in syntheses of the antiviral nucleosides shown below. We will also report on the biological activity of a promising new antiviral agent, FTC, which was prepared using one of these approaches.