ABSTRACT

TITLE:	Asymmetric Total Synthesis of the Antiviral Natural Products Sattabacin, 4-Hydroxysattabacin and Sattazolin
AUTHOR(S):	Heins, Spencer ; Aronoff, Matthew
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ABSTRACT: The first asymmetric total syntheses of the antiviral natural products (+)-sattabacin and (+)-4-hydroxysattabacin are reported. Progress toward the asymmetric total synthesis of (+)-sattazolin is also reported. These total syntheses are remarkably concise and were completed without the use of protecting groups. Unambiguous assignment of the absolute configuration of both (+)-sattabacin and (+)-4-hydroxysattabacin was also accomplished. The syntheses of these natural products, which exhibit potent antiviral activity, are readily amenable to the preparation of structural analogs and progress in this regard is also presented.