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**ROOM-TEMPERATURE REACTIONS OF CsSO<sub>4</sub>F WITH ORGANIC MOLECULES CONTAINING HETEROATOMS**

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Many efforts have been made in recent years to find reagents which would be able to introduce a fluorine into organic molecules under mild conditions. Fluoroxy compounds represent a class of reagents which have been used with varying degrees of success.

We now report that CsSO<sub>4</sub>F reacted with various molecules containing heteroatoms. Room-temperature fluorination of 2,4-pentanedione gave 3-fluoro and 1,3-difluoro derivatives, while 5,5-difluorobarbituric acid was formed in high yield in 2-hour reaction at 100°C. 1,3-Dimethyluracil was converted in methanol via cis and trans-5-fluoro-6-methoxy derivatives to 5-fluoro-1,3-dimethyluracil in high yield and uridine to 5-fluorouridine.