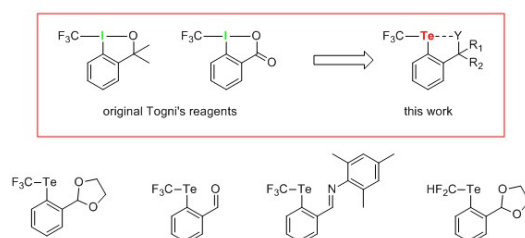


## Synthesis of Hypervalent CF<sub>3</sub> Tellurium Compounds

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Hypervalent iodine (III) reagents are electrophilic trifluoromethylating agents commonly applied in organic syntheses. Since their introduction in 2006,<sup>[1,2]</sup> the parent structures have been subjected to numerous modifications. However to date, the central iodine atom has been retained in each instance.<sup>[3-5]</sup> Herein, we report for the first time a synthesis of unique compounds in which the iodine atom has formally been exchanged for tellurium. Thus, a series of CF<sub>3</sub> tellurium (II) species differing in the functional group coordinated to the central atom has been obtained. All products have been fully characterized using HRMS and NMR spectroscopy, including advanced <sup>1</sup>H<sup>125</sup>Te and <sup>19</sup>F<sup>125</sup>Te correlation measurements. Furthermore, selected modifications performed after installing the CF<sub>3</sub> group on the tellurium atom have been successfully carried out.<sup>[6]</sup>



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