## Scheme 1. Electrochemical CF<sub>3</sub>-induced lactonization

Scheme 2. Electrochemical CF<sub>3</sub>-induced etherification

$$R_2$$
  $R_3$   $R_1$   $R_2$   $R_3$ 

Scheme 3. Electrochemical CF<sub>2</sub>X-induced lactonization

Substrate	Product
1b	<b>3b</b> 85% (X = F) <b>3s</b> 53% (X = H)
1e	3e 73% (X = F) 3t 42% (X = Me)
1q	3q 63% (X = F) 3u 35% (X = H)