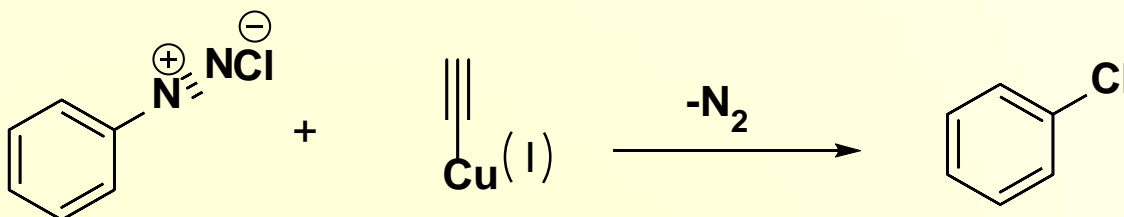


# Sandmeyer Reaction



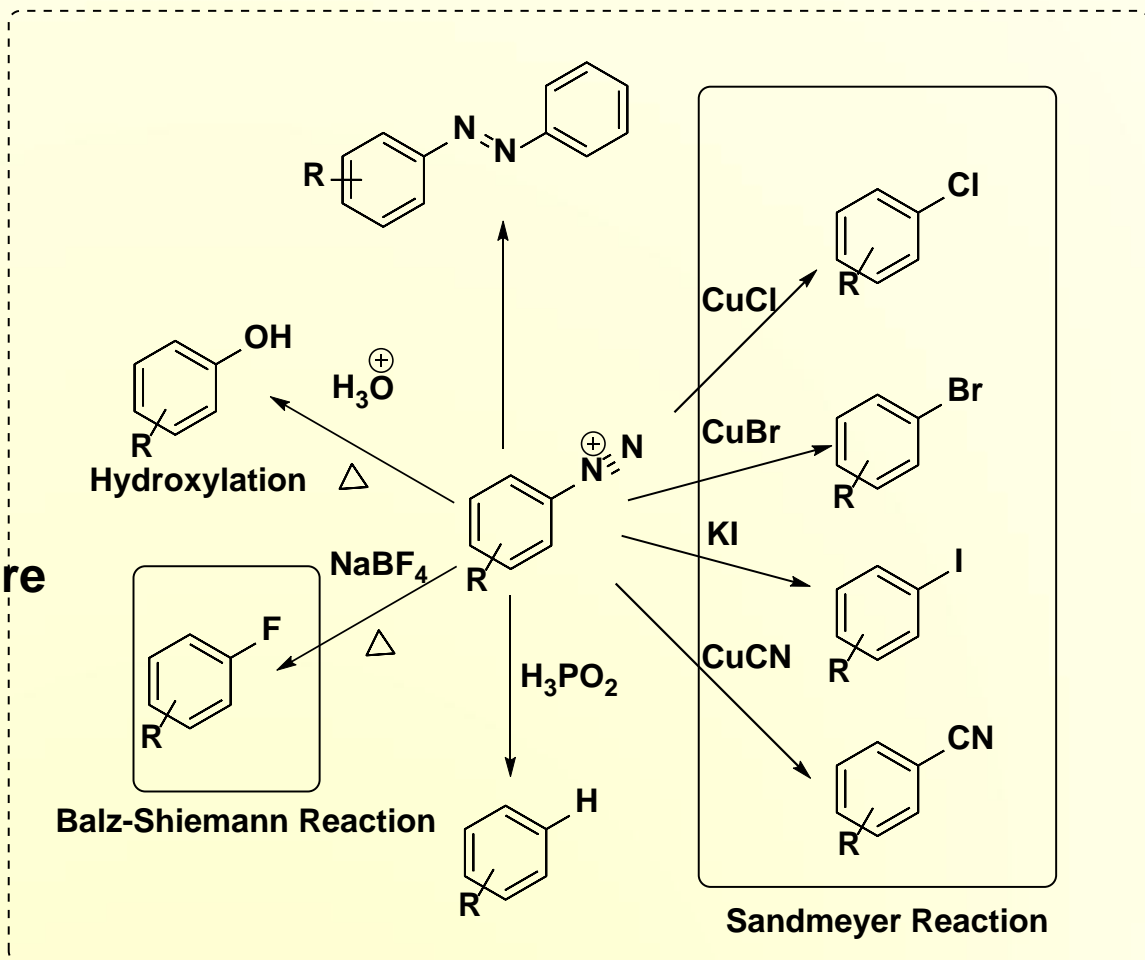
Traugott Sandmeyer

1854-1922

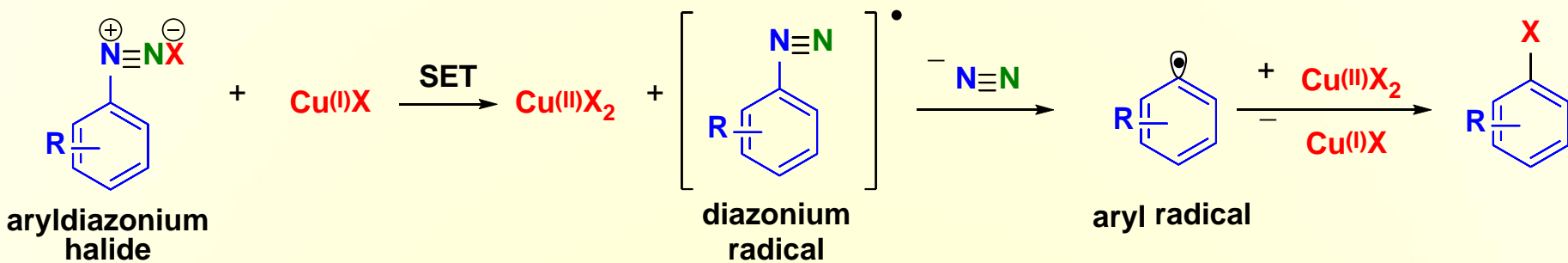


# Features

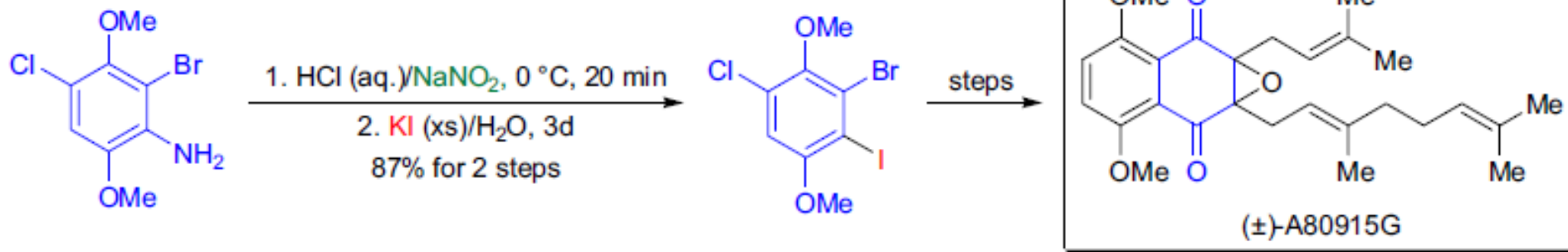
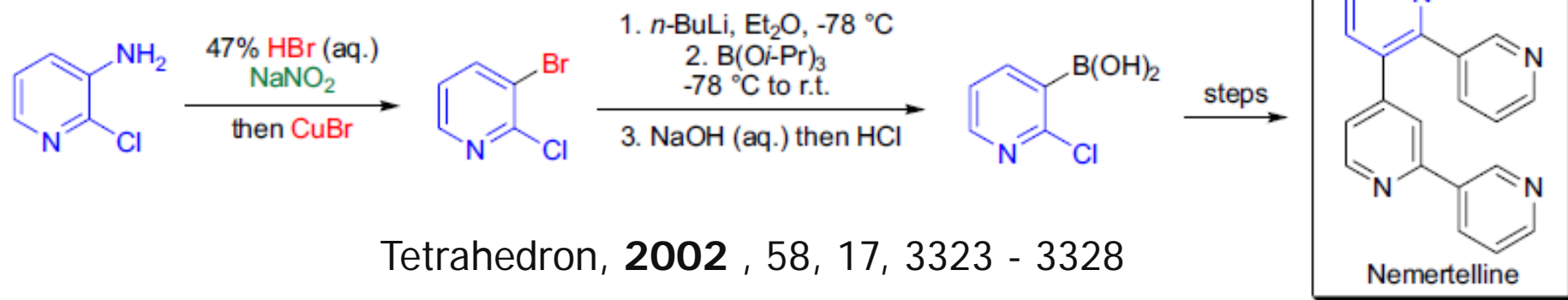
1. Aryldiazonium halides
2. One pot synthesis
3. Match the conjugate base of the hydrohalic acid
4. Aryl iodides does not require the use of a copper(I) salts
5. Can be widely varied



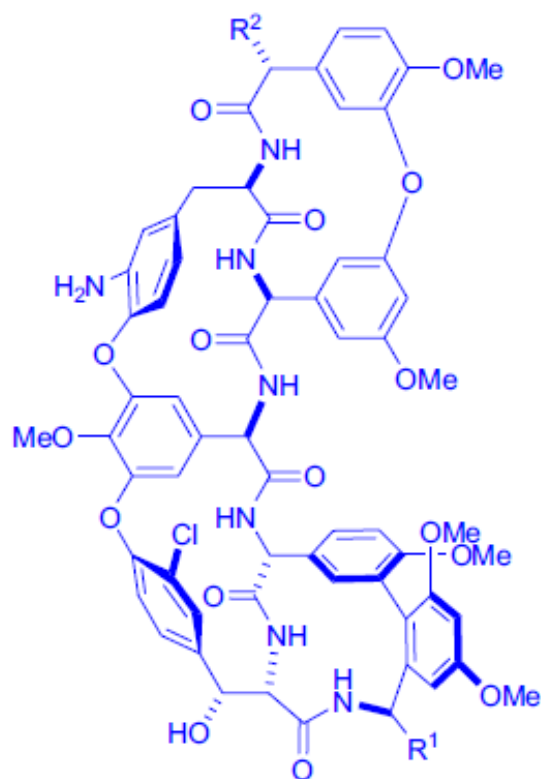
# Mechanism



# Applications

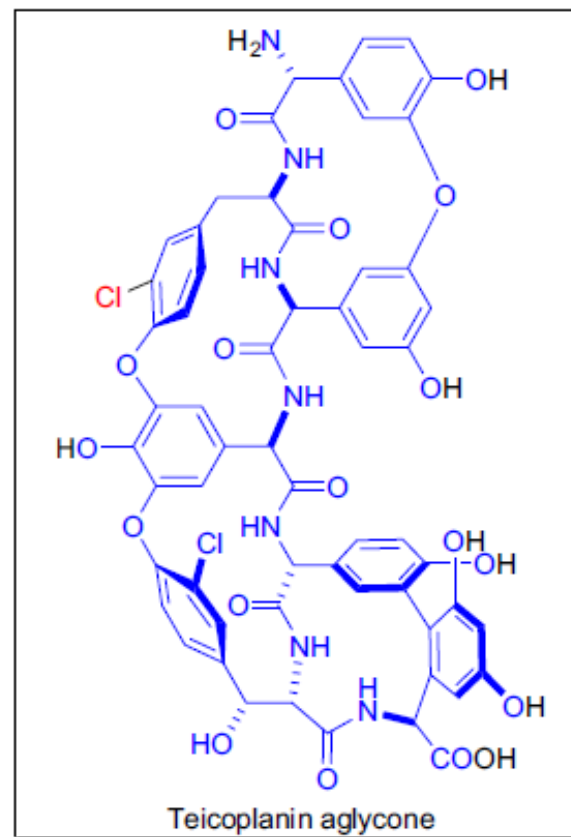


# Applications



1. *t*-BuONO, HBF<sub>4</sub>, MeCN, 0 °C  
2. CuCl, CuCl<sub>2</sub>, H<sub>2</sub>O, 0 °C  
58% for 2 steps
3. N<sub>2</sub>O<sub>4</sub>, DMF, 0 °C  
4. H<sub>2</sub>O:DMF (2:1), 60 °C, 7h; 85%  
5. AlBr<sub>3</sub>, CH<sub>2</sub>Br<sub>2</sub>, 0 °C then EtSH, r.t.  
43% for 3 steps

R<sup>1</sup> = CONHMe; R<sup>2</sup> = NHTFA



Teicoplanin aglycone

# Applications

