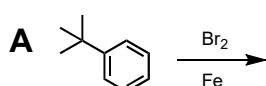


# ELECTROPHILIC AROMATIC SUBSTITUTION

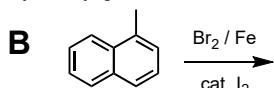
Predict the products of the following reactions.



75% yield

rxn from JACS, 1944, 66, 914

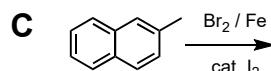
(the I<sub>2</sub> makes Br<sub>2</sub> more reactive,  
you may ignore it for mechanism)



94% yield

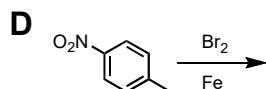
rxn from JOC. 2016, 81, 8544

(the I<sub>2</sub> makes Br<sub>2</sub> more reactive,  
you may ignore it for mechanism)



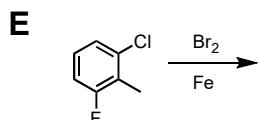
83% yield

rxn from JOC. 2016, 81, 8544



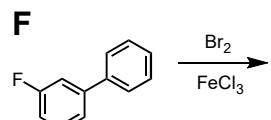
66% yield

rxn from JPC A 2017, 121, 5110



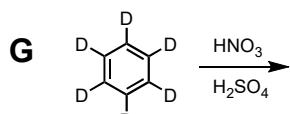
98% yield

rxn from JMC, 2009, 52, 7186



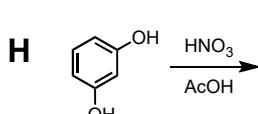
>80% yield

rxn from Nature, 2019 567 223



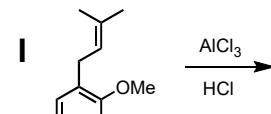
96% yield

rxn from CEJ 2019 25 10668



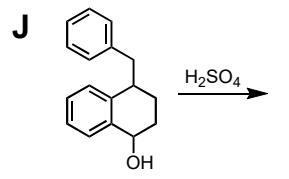
75% yield

rxn from TL 2006 47 4933



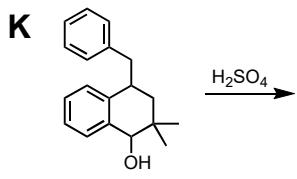
60% yield

rxn from Bull. SOC. Chim. Belg. 1981 90 847



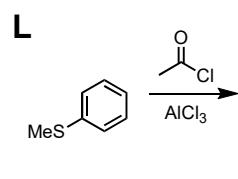
85% yield

rxn from JOC, 1973, 38, 1909



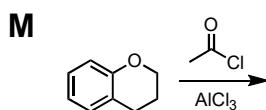
70% yield

rxn from JOC, 1973, 38, 1909



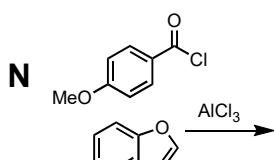
79% yield

rxn from Sulfur Lett 1991, 12, 123



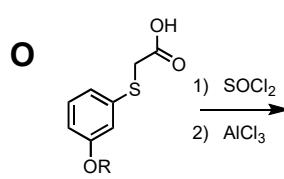
85% yield

rxn from ACIE, 2019, 58, 15386



85% yield

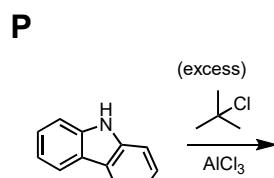
rxn from Bio Med Chem. 2018, 26, 2984



R = C<sub>6</sub>H<sub>13</sub>

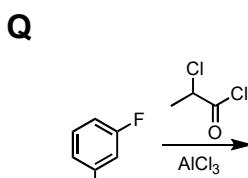
62% yield

rxn from TL 1994 35 7549



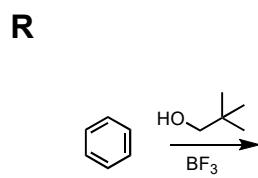
72% yield

rxn from JPC C, 2017, 121, 23618



91% yield

rxn from Bio Med Chem Lett 2012 22 4887



96% yield

rxn from JACS 1959 81 1110