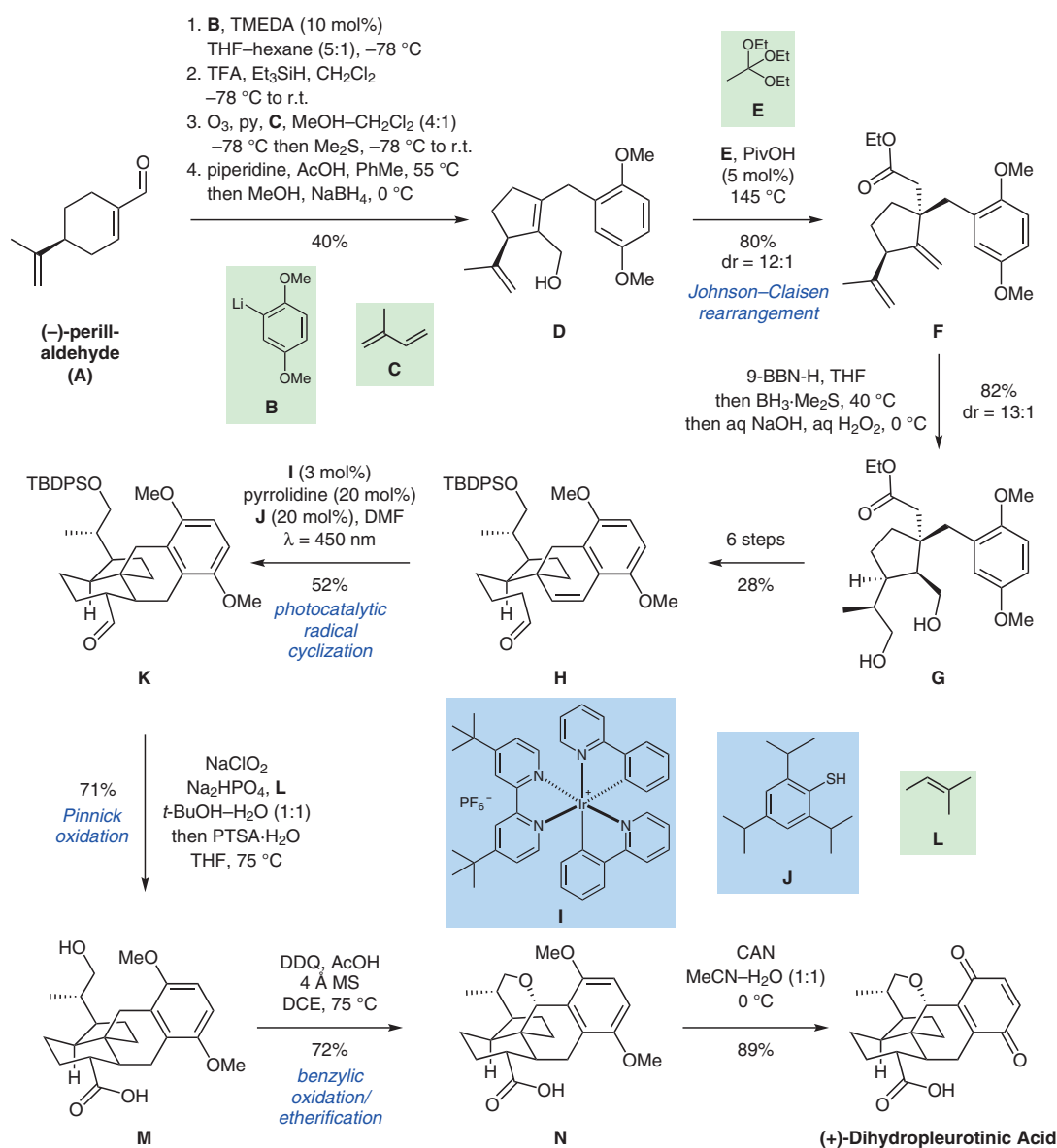


Total Synthesis of (+)-Dihydropleurotinic Acid



Significance: Ding, Xuan, and co-workers present the total synthesis of four pleurotin natural products. The natural products featuring a 5/6/6/6-tetracyclic carbon skeleton were assembled through Johnson–Claisen rearrangement, photocatalytic radical cyclization and benzylic oxidation/etherification.

Comment: The allylic alcohol **D** was converted into the ester **F** by Johnson–Claisen rearrangement. Subsequent hydroboration and elaboration gave rise to aldehyde **H**, which underwent radical cyclization under blue light irradiation in the presence of Ir-photocatalyst **I**, thiol **J** and pyrrolidine to afford aldehyde **K**.