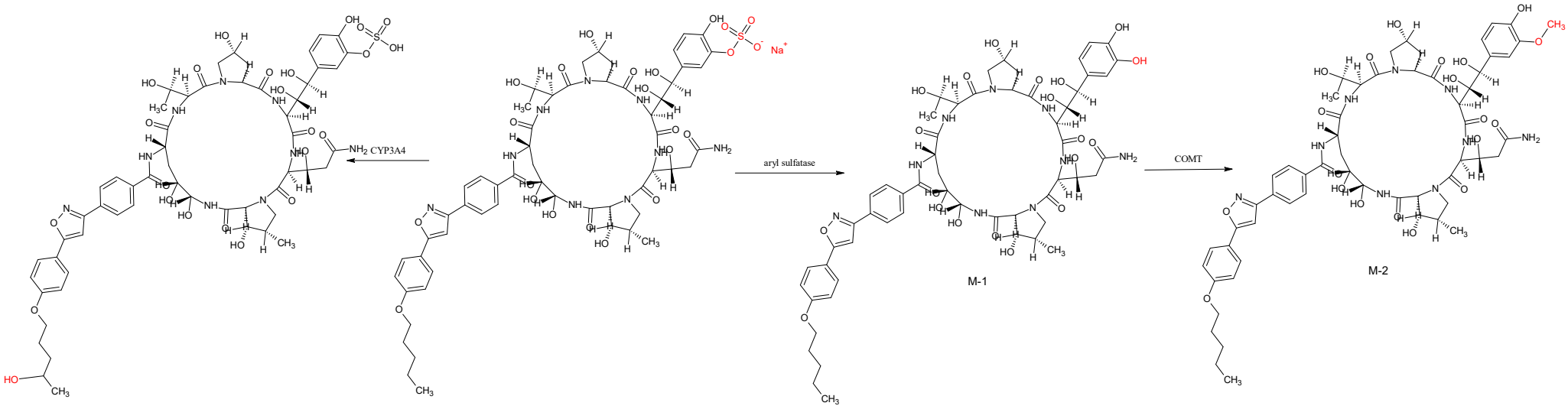
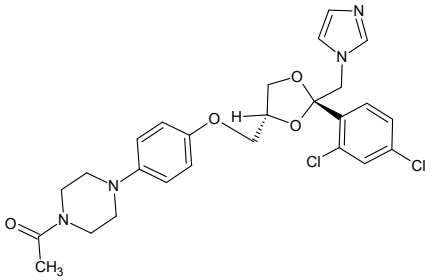
Metabolism of selected antimycotics

Echinocandins: metabolism of micafungin



Metabolism of ketoconazole



b. Proposed pathway for ketoconazole imidazole oxidation

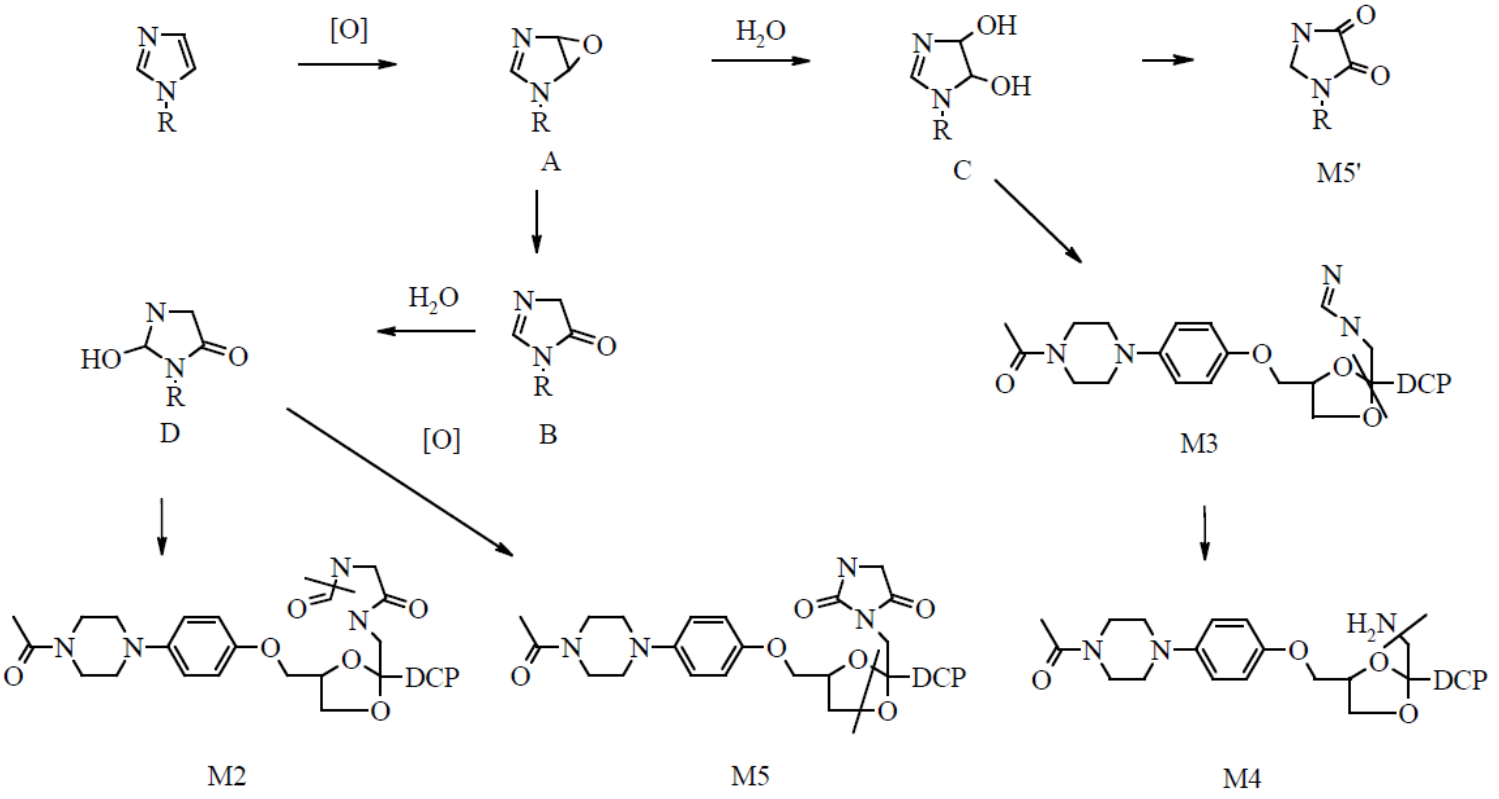


Fig. (4). Metabolic oxidation of the ketoconazole imidazole moiety.

Metabolism of ketoconazole (continued)

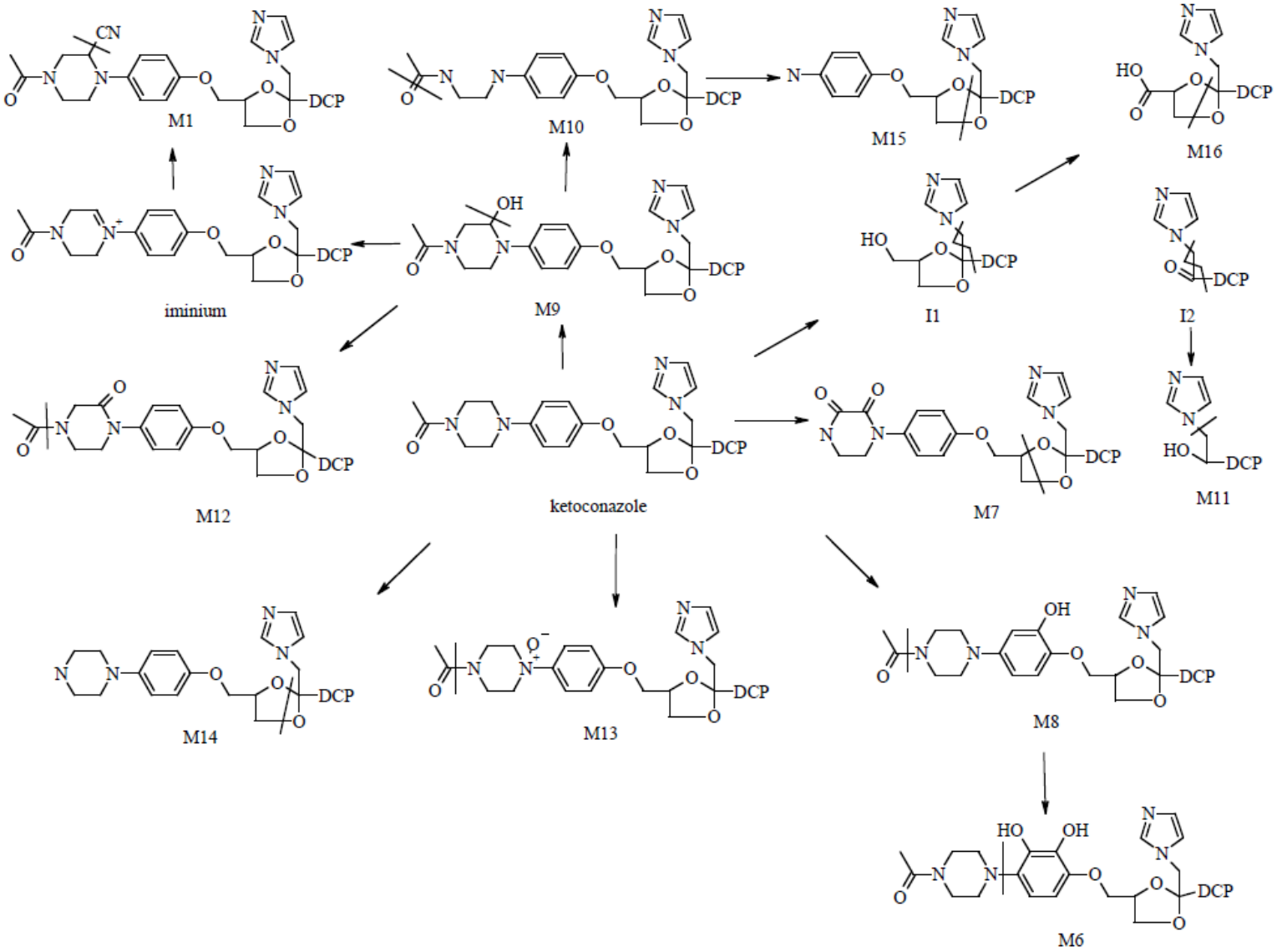
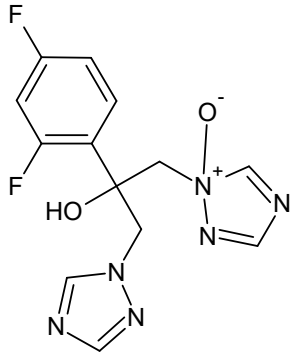


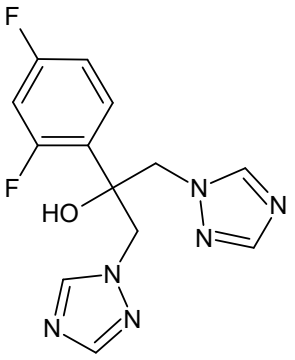
Fig. (5). Other ketoconazole microsomal metabolites.

Metabolism of fluconazole

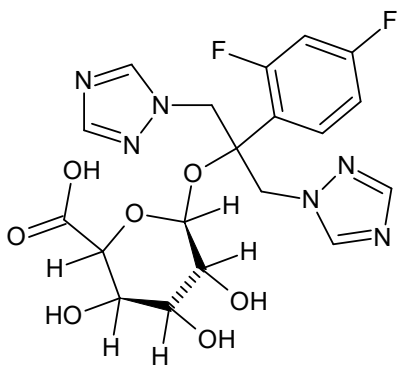


fluconazole-*N*-oxide

2.5 % in urine



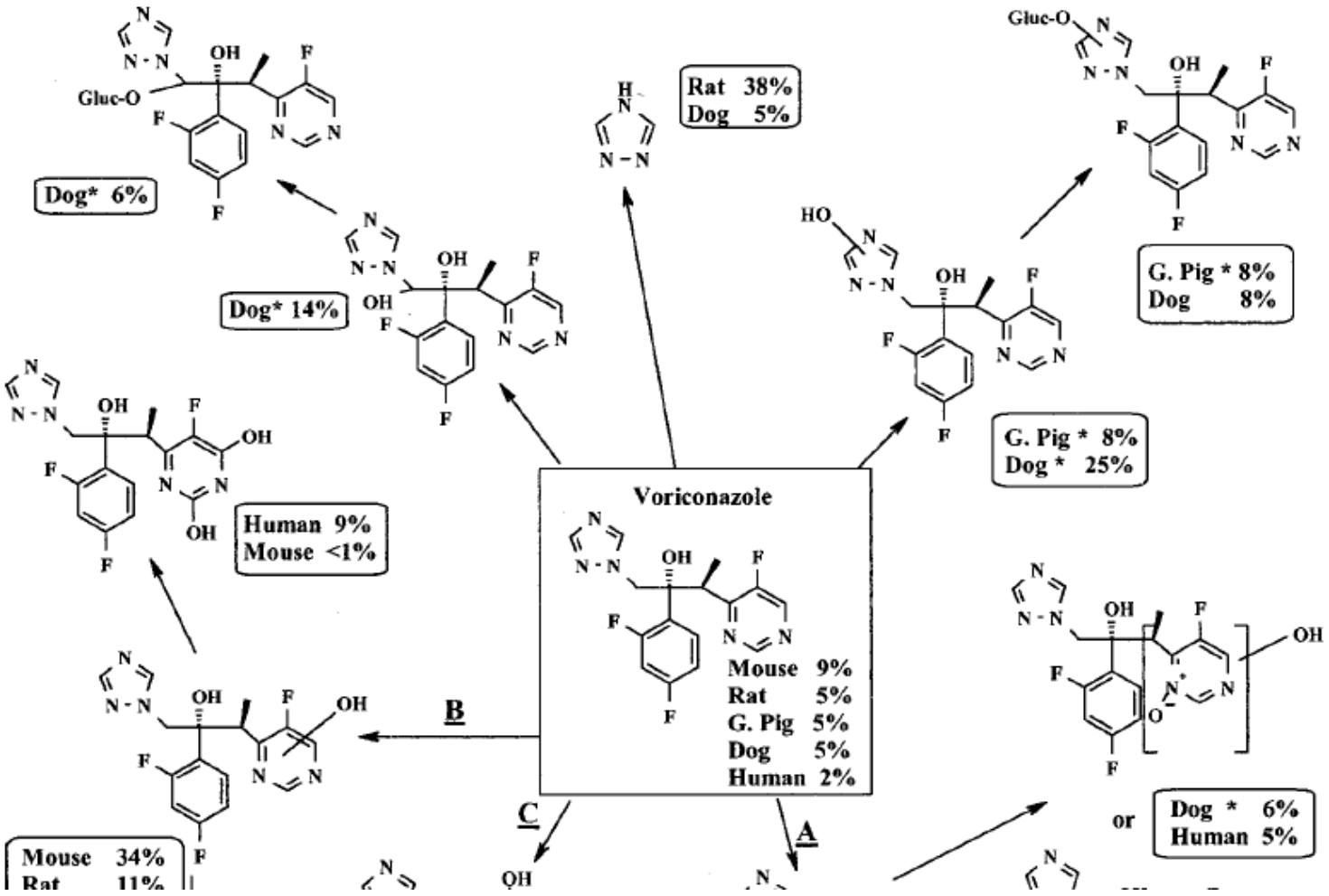
fluconazole



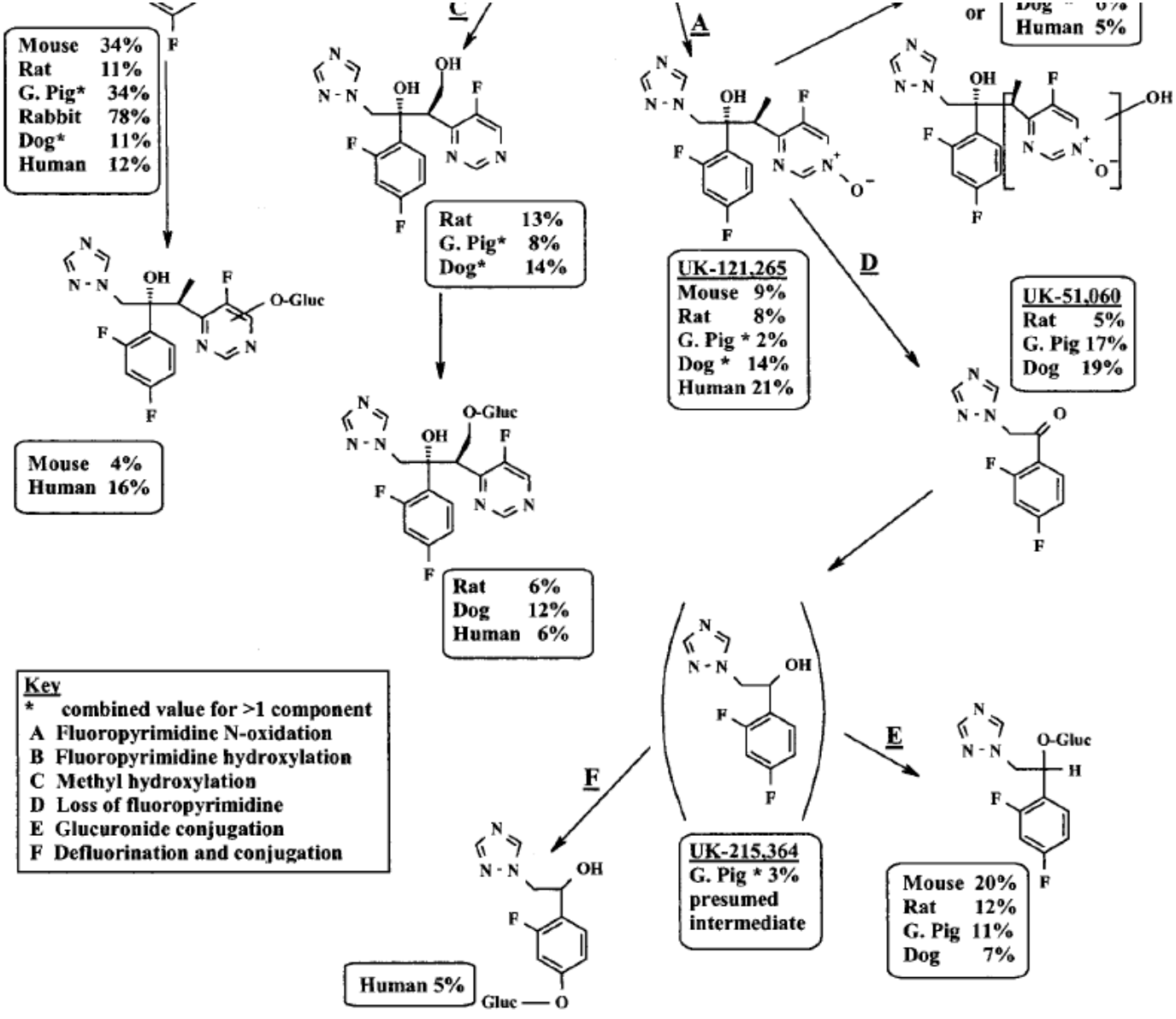
fluconazole glucuronide

6.5 % in urine

Metabolism of voriconazole



Metabolism of voriconazole continued



Metabolism of voriconazole continued

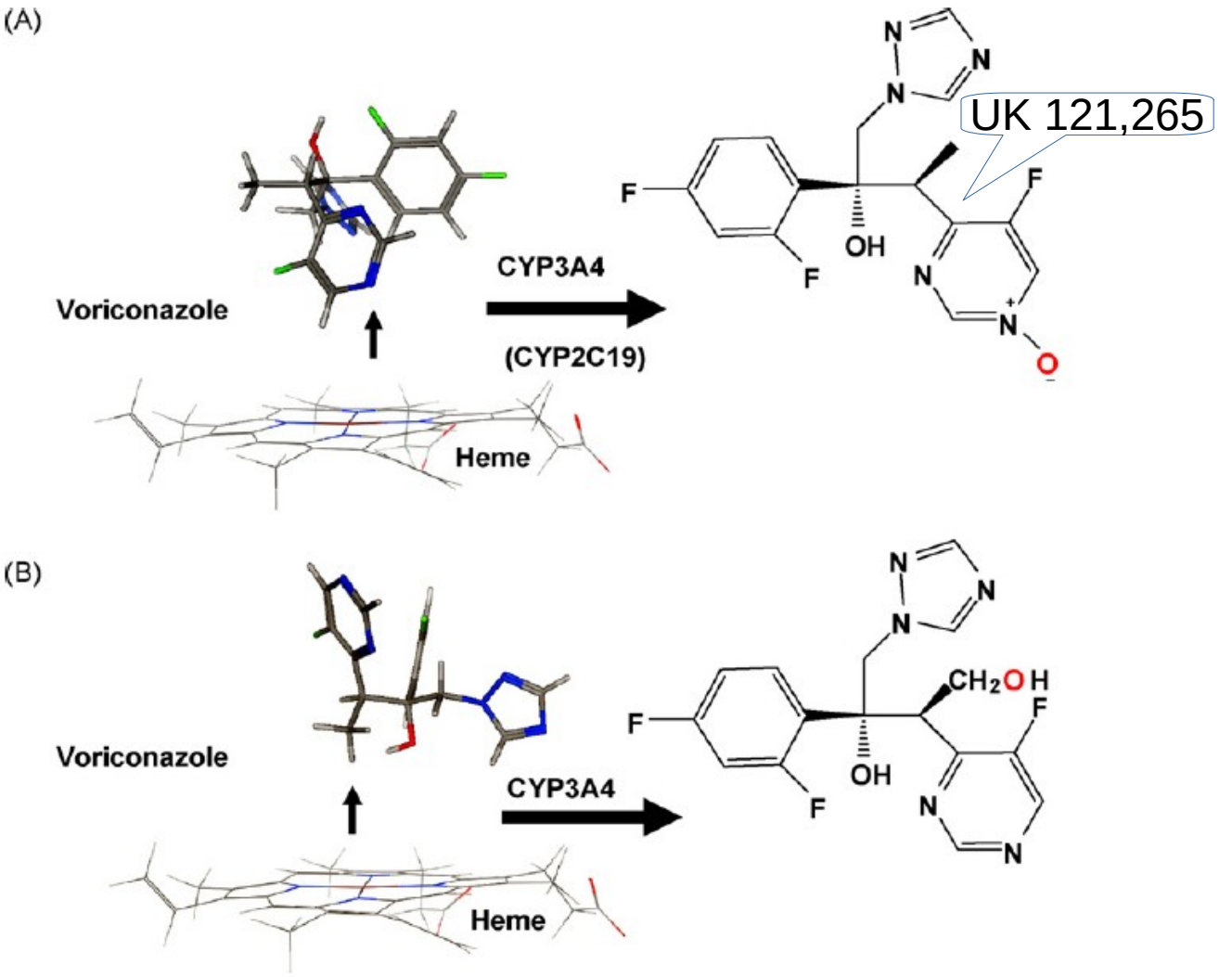
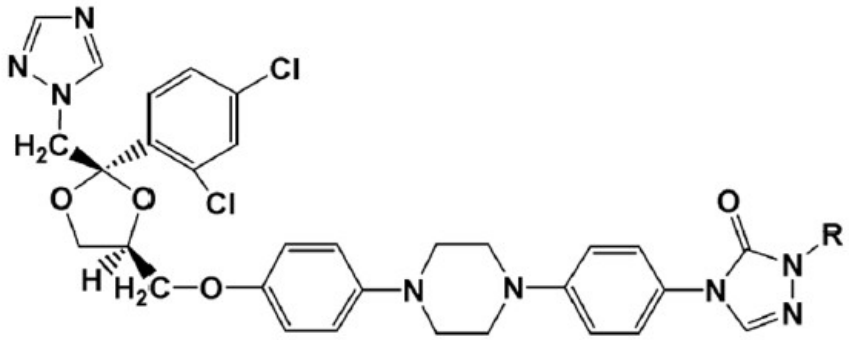


Fig. 5 – Proposed metabolic pathway of voriconazole in humans. Voriconazole adopted an orientation suitable for both N-oxidation (*U* = 21.4, A) and 4-hydroxylation (*U* = 24.8, B) for CYP3A4 (corresponding to 1W0G).

Metabolism of itraconazole



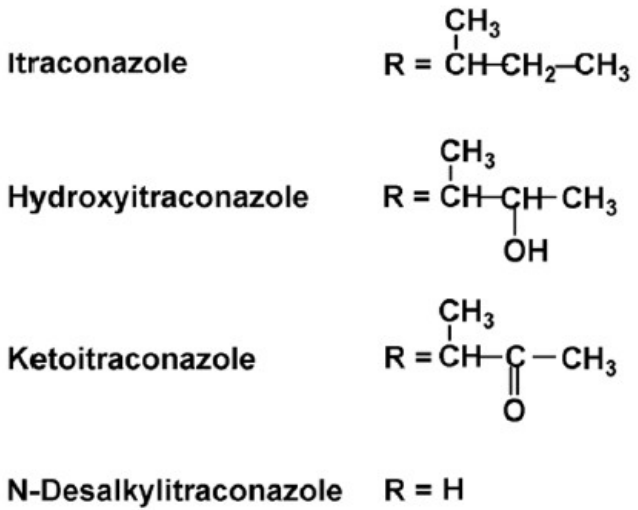


Figure 1.
Structures of itraconazole (ITZ) and its metabolites hydroxy-itraconazole (OH-ITZ), keto-itraconazole (keto-ITZ) and N-desalkyl-itraconazole (ND-ITZ). * indicates a chiral center.

metabolites formed by CYP3A4
itraconazol saturates CYP3A4 and thus inhibits metabolism of other drugs

Metabolism of terbinafine