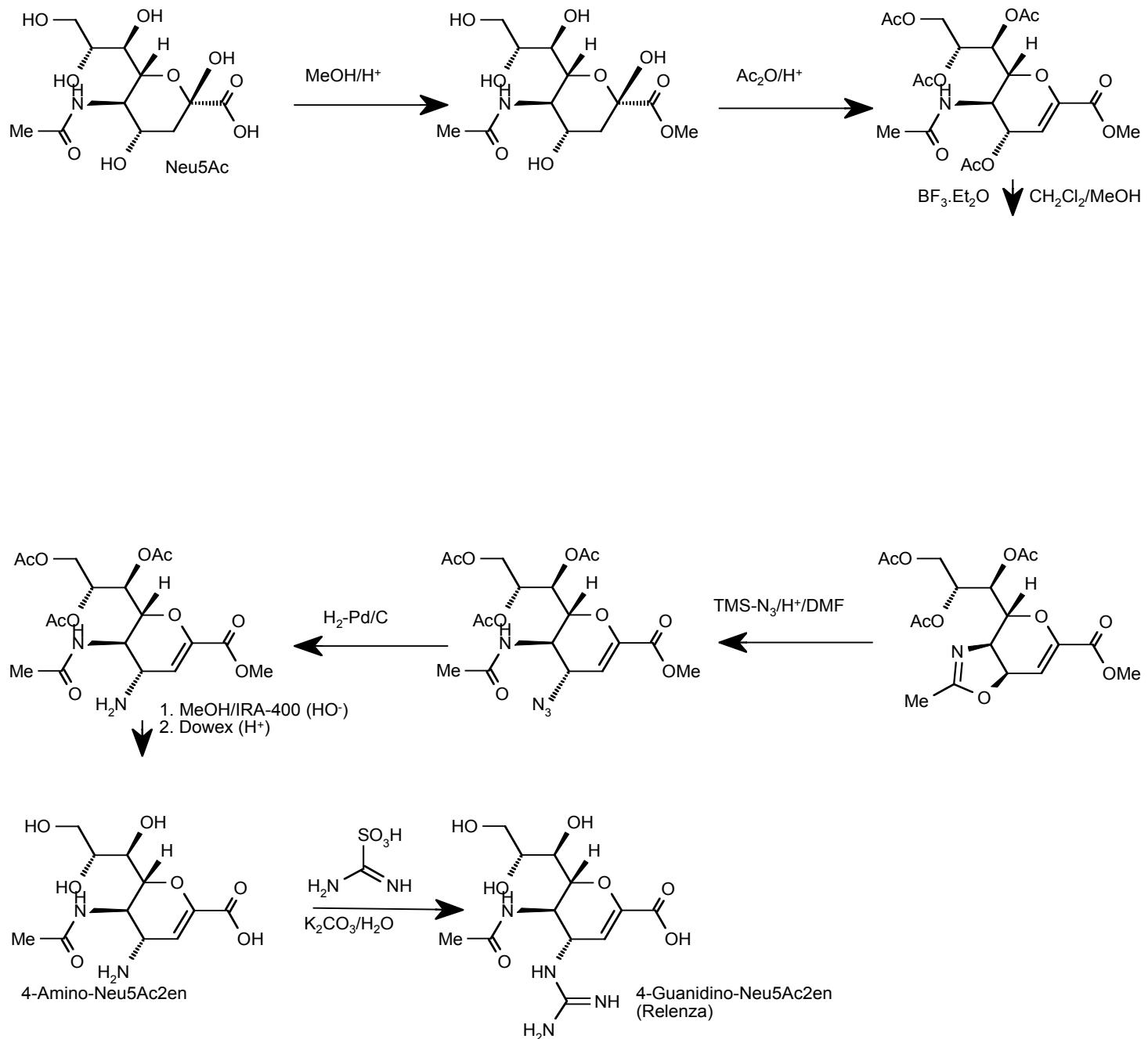
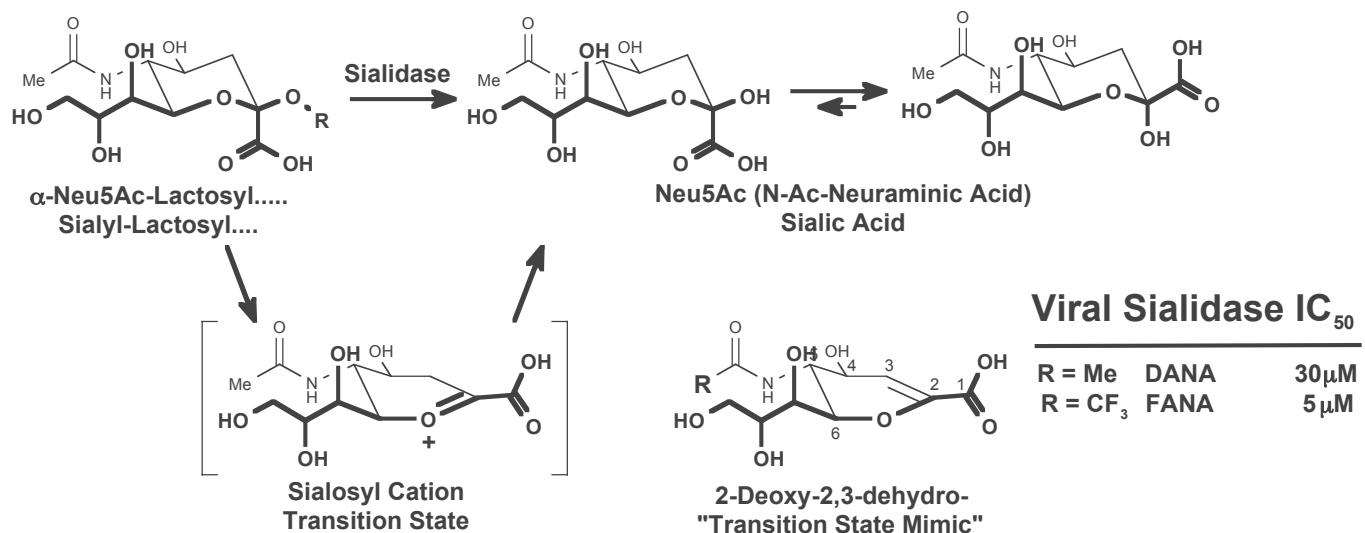


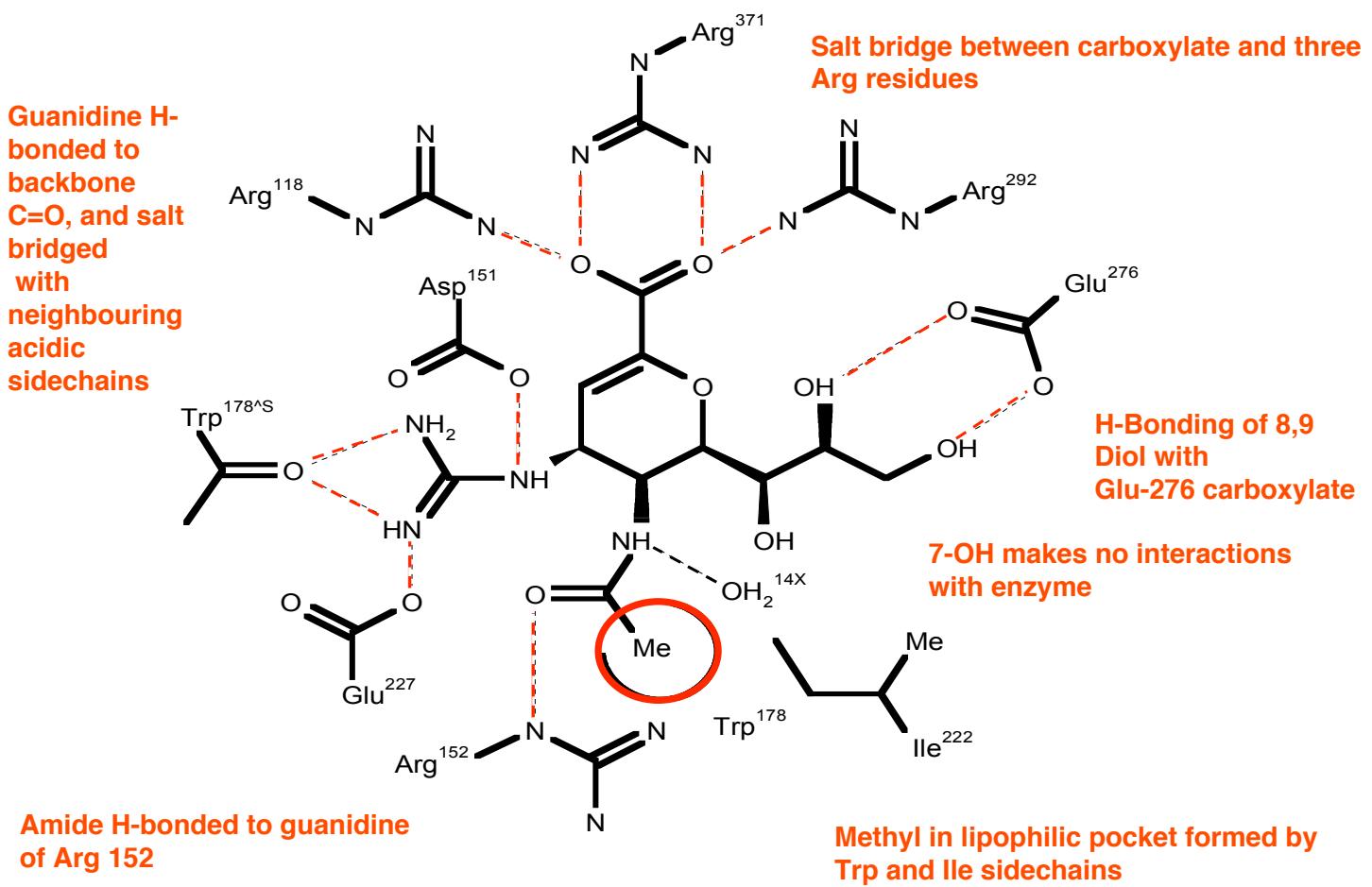
# Synthesis of Relenza



# Early Inhibitors - Transition State Mimics

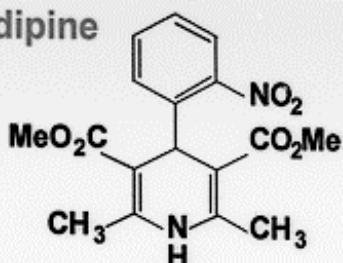


## Relenza Interactions with sialidase



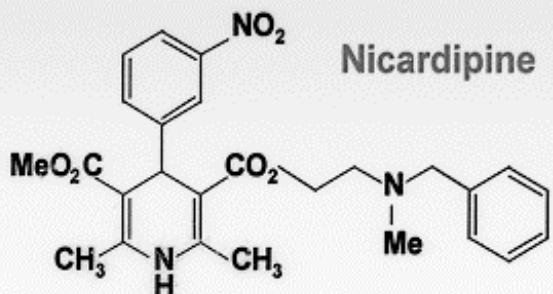
# The Road to Amlodipine...1. A Blind Alley

Nifedipine



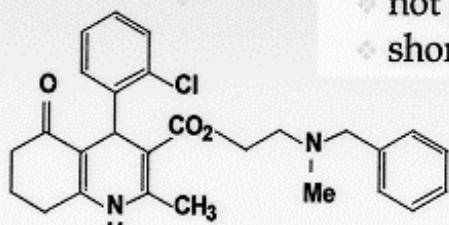
- ◊ insoluble
- ◊ photosensitive
- ◊ short  $t_{1/2}$
- ◊ low/variable absorption

Nicardipine



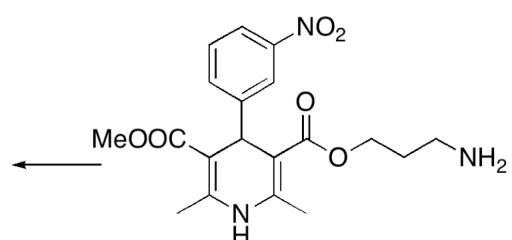
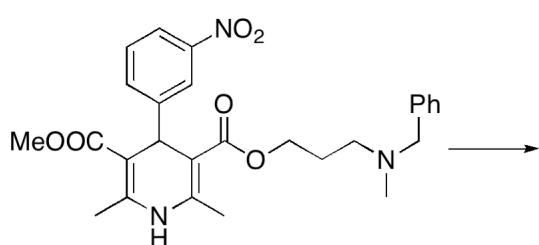
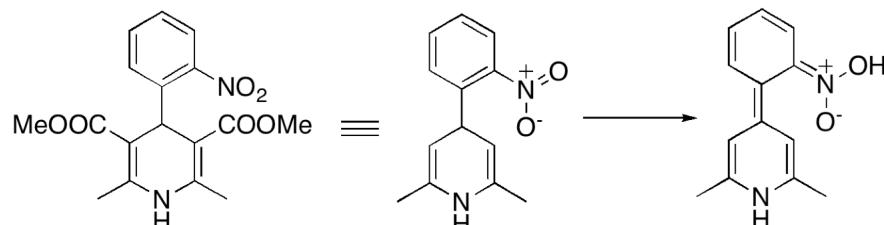
- ◊ soluble (polar side chain)
- ◊ not photosensitive
- ◊ short  $t_{1/2}$

UK-41,753

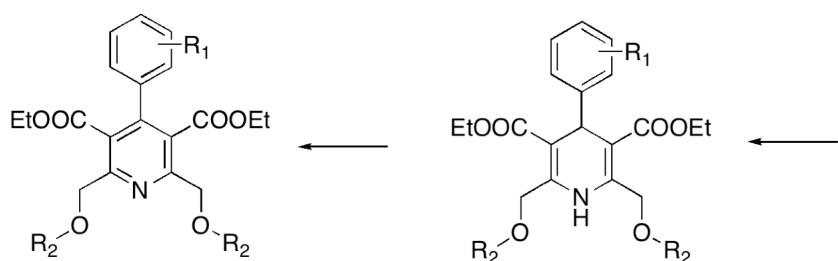
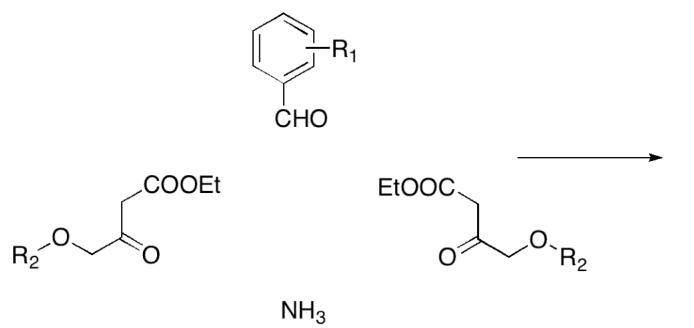


- ◊ novel, patentable
- ◊ soluble
- ◊ rapidly metabolised

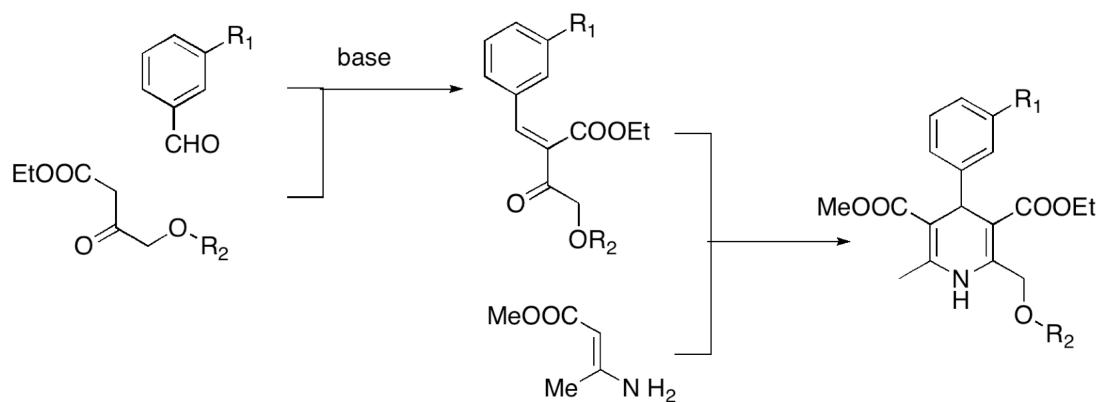
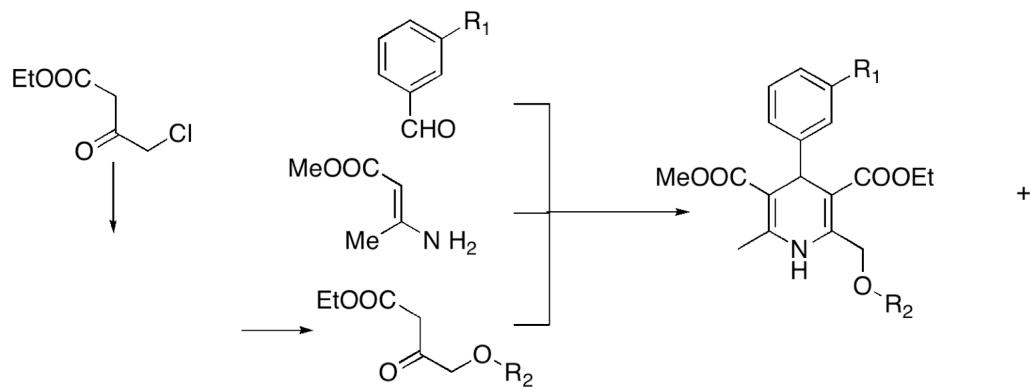
## Reasons for the Problems....



# Accessing Analogues: I've a Hunch it's a Hantsch



## Unsymmetrical Stepwise Hantsch



# DHP Oxidation Stabilization



## Amlodipine - Structural Features

