

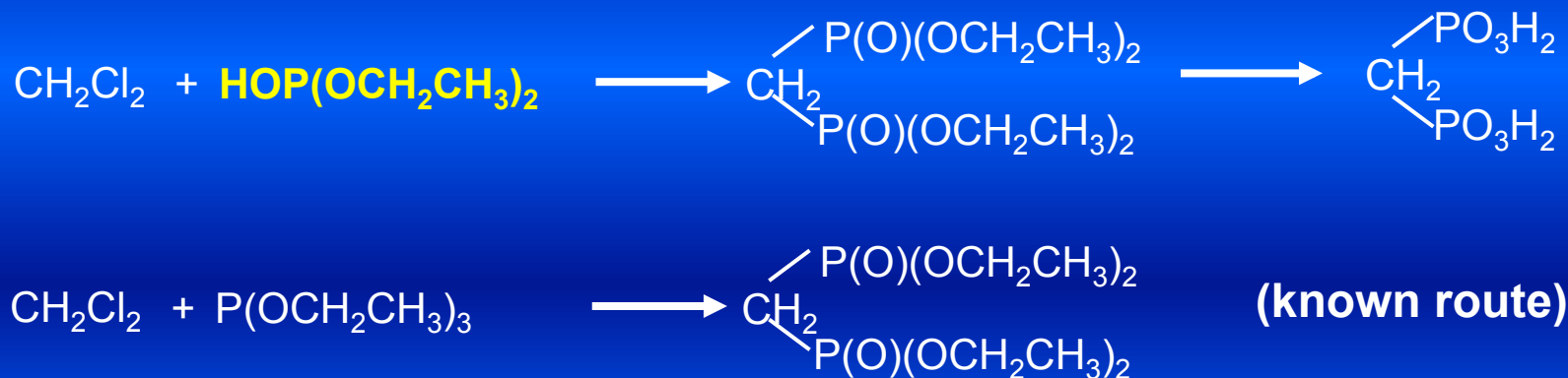
Our Skills for Joined Work

Guozheng Liu

- 1. Linker and chelator synthesis**
- 2. Radiometal labeling**
- 3. In vivo evaluation (chemistry)**
- 4. Kit formulation of labeled compounds**

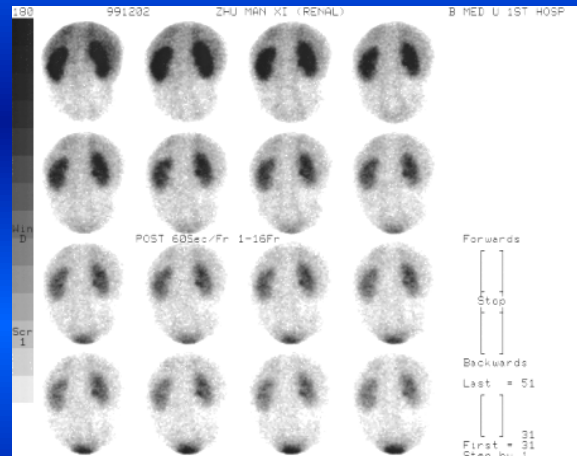
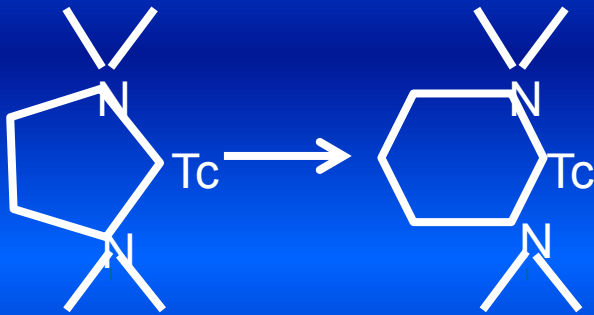
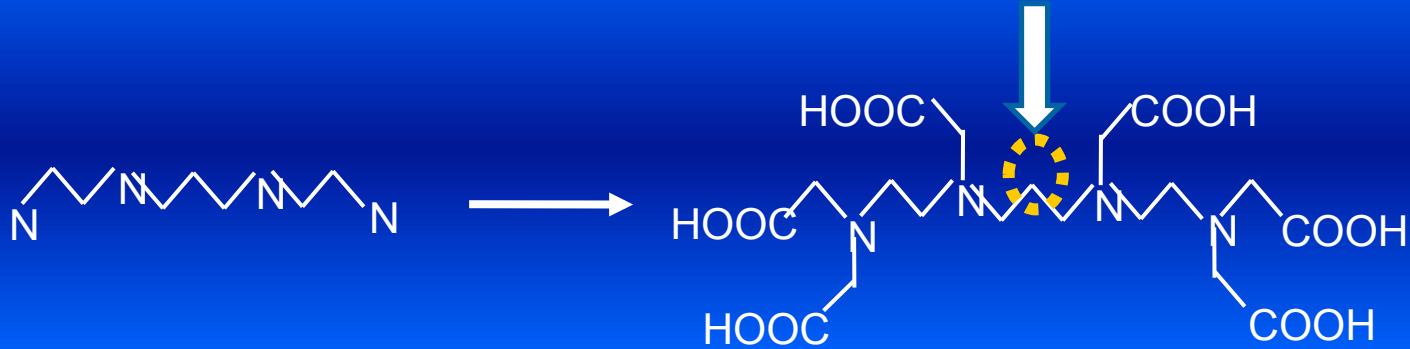
1. Linker and chelator synthesis

New synthetic route for MDP (for routine bone imaging in the clinic)



Kit formulized in China and routinely used in the clinic

A novel polyaminopolycarboxylate (BPHA)



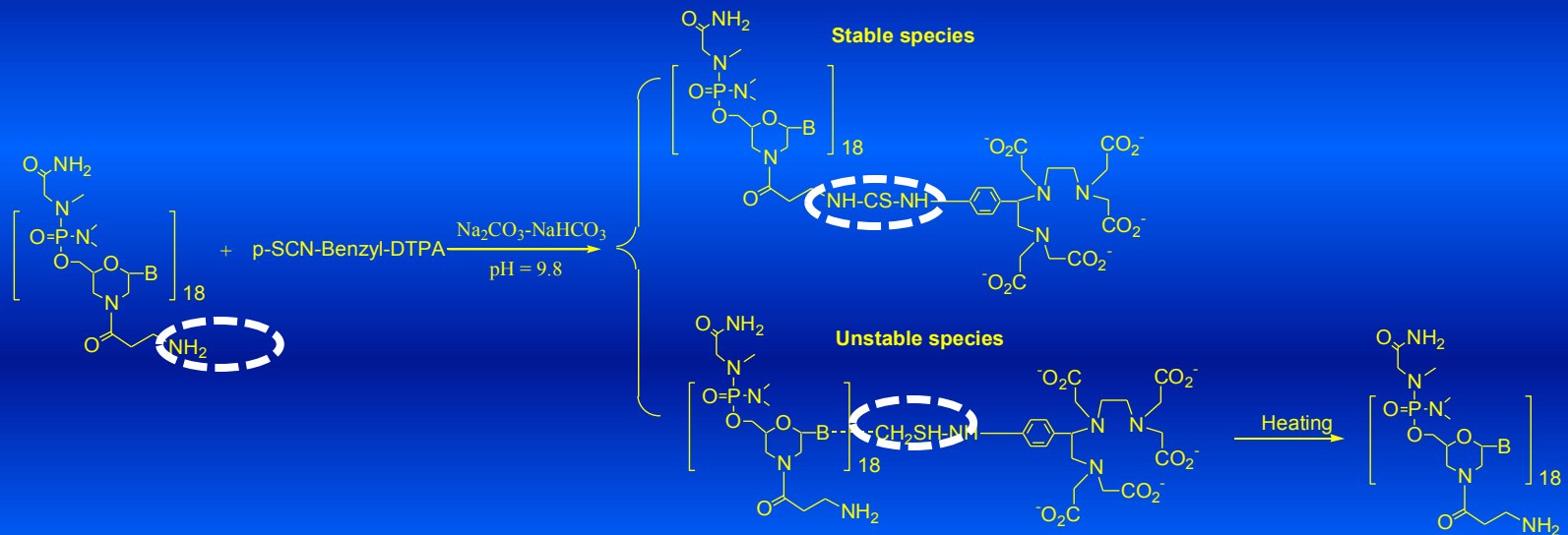
Normal
Volunteer

Radiometal labeling

1. ^{99m}Tc , 186 , ^{188}Re , ^{111}In , ^{90}Y , 67 , ^{68}Ga ,

2. Ability to figure out the side reactions and improve labeling efficiency

Low ^{90}Y labeling efficiency

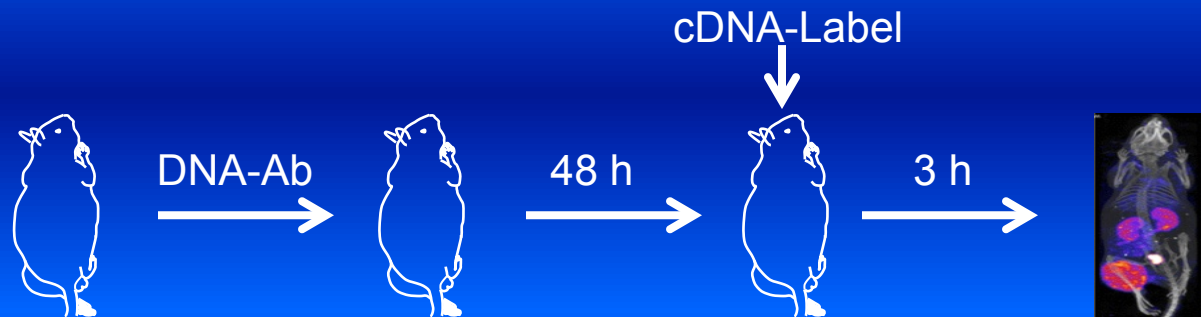


Similar problem for ^{99m}Tc labeling using MAG_3



In Vivo Chemistry

1. Pretargeting: In vivo $A + B \longrightarrow A-B$



2. Clearance

