

2-D Experiments

$I \rightarrow S$

① Heteronuclear: $I \neq S$ $^1\text{H}, X$ ($X = ^{13}\text{C}, ^{15}\text{N}$)

Coherence Transfer (J)

HETCOR ^{13}C detected

HMQC/HSQC 1-bond } "Inverse"

HMBC 2,3-bond }

② Homonuclear

Coherence Transfer (J):

COSY, DQF-COSY single transfer

TOCSY multiple "jumps"

Z-magnetization Transfer (NOE):

NOESY small \ominus large \oplus

ROESY always \ominus