P=0.2

P=0.1

No

No

Yes

Yes

Send data to the closest SCH

Send data to the closest PCH and receive data from common node

Secondary CH node

Every common node selects a random number in [0,1]

Round 2 at Secondary CH Level

Send data to the BS

Primary CH node

Common node

Every node selects a random number in [0,1]

Round 1 at Primary CH Level