Chemical compound 1
Chemical compound 2
Chemical compound 3
Chemical compound 4

Transmitter
Channel
Receiver

Enzyme Expression Regulation

Transmitted signal

Received signal

\[ r_1 = 1, \quad r_2 = 1, \quad r_3 = 1, \quad r_4 = 1, \quad r_5 = 0, \quad r_M = 0 \]