Pathway 1: fast DSB lesion repair

$$D_1 \underset{k_{rb1}}{\overset{RP*(k_{fb1}+k_{cross}*(D_1+D_2))}{\rightleftharpoons}} C_1 \xrightarrow{k_{fix1}} F_1$$
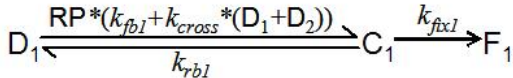
Pathway 2: slow DSB lesion repair:

$$D_2 \underset{k_{rb2}}{\overset{RP*(k_{fb2}+k_{cross}*(D_1+D_2))}{\rightleftharpoons}} C_2 \xrightarrow{k_{fix2}} F_2$$