

$$\begin{array}{ccccc}
A_1 & \xrightarrow{f_A} & A_2 & \xrightarrow{g_A} & A_3 & \xrightarrow{\delta_{r1}} & \\
\downarrow m_1 & & \downarrow m_2 & & \downarrow m_3 & & \\
B_1 & \xrightarrow{f_B} & B_2 & \xrightarrow{g_A} & B_3 & \xrightarrow{\delta_{r2}} & \\
\downarrow n_1 & & \downarrow n_2 & & \downarrow n_3 & & \\
C_1 & \dashrightarrow^{f_C} & C_2 & \dashrightarrow^{g_C} & C_3 & \dashrightarrow^{\delta_{r3}} & \\
\downarrow \delta_{c1} & & \downarrow \delta_{c2} & & \downarrow \delta_{c3} & &
\end{array}$$