$\cdots \stackrel{(f_{i-1})^*}{\longleftarrow} \operatorname{Hom}_R(M, M_{i-1}) \stackrel{(f_i)^*}{\longleftarrow} \operatorname{Hom}_R(M, M_i) \stackrel{(f_{i+1})^*}{\longleftarrow} \operatorname{Hom}_R(M, M_{i+1}) \stackrel{(f_{i+2})^*}{\longleftarrow} \cdots$