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Title: *FP*-injectivity relative to a semidualizing bimodule

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In this paper, we extend the notion of C -injective module to that of C - FP -injective module, where ${}_S C_R$ is a semidualizing bimodule over associative rings. We first obtain a result on the (pre)covering and (pre)enveloping properties of C - FP -injective modules. Then we study right C - FP -injective dimension of modules via right derived functors of Hom . As applications, a necessary and sufficient condition of semidualizing modules having finite FP -injective dimension and a new characterization of left noetherian rings are given.

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