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Competitive interactions under experimental conditions affect diel feeding of two common aquaculture fish species *Labeo calbasu* (Hamilton, 1822) and *Cirrhinus cirrhosus* (Bloch, 1795) of southern Asia (Article)

Rahman, M.M.^{ab} (<https://www.scopus.com/authid/detail.uri?authorId=56962766500&eid=2-s2.0-84981523706>)[✉ \(mailto:mustafizu.rahman@yahoo.com\)](mailto:mustafizu.rahman@yahoo.com),Balcombe, S.R.^c (<https://www.scopus.com/authid/detail.uri?authorId=6508188988&eid=2-s2.0-84981523706>)^aDepartment of Marine Science, Faculty (Kulliyah) of Science, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia^bInocem Research Station, IIUM, Kuantan, Pahang, Malaysia^cAustralian Rivers Institute, Griffith University, Nathan, Qld, Australia[View additional affiliations](#)

Abstract

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The effects of interspecific competition on grazing between two important aquaculture species, mrigal carp *Cirrhinus cirrhosus* and orangefin labeo *Labeo calbasu*, in single and in dual combinations were observed in experimental tanks. This study demonstrated that the presence of a competitor did not cause *C. cirrhosus* to shift its diel feeding patterns. That said, both total food intake and food preference were negatively affected in *C. cirrhosus* by the presence of a superior competitor, *L. calbasu*. The feeding patterns of *L. calbasu* became diurnal in the presence of *C. cirrhosus*, suggesting highly complex competitive interactions between the two species. That *L. calbasu* was specifically able to shift circadian feeding patterns to maximize energy intake in the presence of a competitor would suggest that it would be a suitable species to stock in a mixed species aquaculture system. © 2016 Blackwell Verlag GmbH

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