

Introduction 1

Ecologists are interested in understanding how and to what extent interspecific interactions influence community structure, species coexistence and biodiversity. Host-parasite interactions occurr frequently in nature and has been shown that parasites could affect the growth and survival rate of a host thus influence its competitive ability. In the past two decades, people investigate the potential importance of parasites and pathogens in determining the outcome in trophic interactions and community process. In the paper ([1]) the authors reviewed the recent research on how parasites influence competitive and predatory interactions of the host species they infected. However, no theoretical model has been developed that consider the competitive outcome between two hosts who shared the same parasite. In this paper we shall investigate a mathematical

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