

1154-92-135

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There are many misconceptions about how group selection works. The best way to understand group selection is to study a good mathematical model. I will describe a Markovian model of group-structured populations that features individual-level birth, death, and migration events, and group-level fission and extinction events, and three techniques for studying the resulting population dynamics. From the model we can see how group selection works, and its efficacy as an evolutionary force. Unsurprisingly, group-level events are the key to group selection, but standard characterizations of group selection, e.g., the Price equation, do not account for group-level events, resulting in the misconceptions. Examples from genetic and cultural evolution will be discussed. (Received August 17, 2019)