Replicator dynamics and the Beyond

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What is selected and inherited in an ecological system is not just "better" gene sets or "better" phenotypes, but it is pattern of dynamics and evolvability of the system. Today I will review my previous works on this issue and discussing some future problems of evolutionary replicator systems.

In particular, I am addressing the following points:

a) How mutation rates evolve via replicator dynamics[7,8,9]?

b) How attractors are selected via replicator dynamics [1,5]?

c) How to characterize open-ended evolution [3,4,6]?

d) How to understand the evolvability [2]?

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