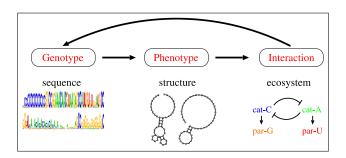
Evolution as a Cycle of Multi-level Processes

Introduction:



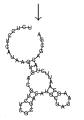
- Question/Conclusion
 - Evolution of Information & Organization
 - Evolution of Complexity



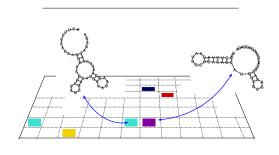
Spatial RNA Replicator System

Genotype → Phenotype

(E.g.) UCUCCUCAU ~ CUACAGCGA

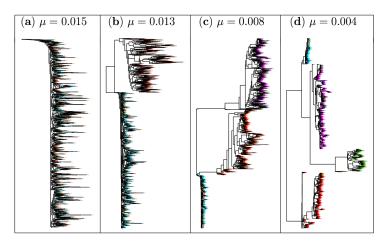


Phenotype → Interactions



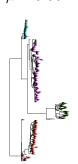
- Complex: 5'-end → 3'-end
- Replication: if phenotype correct

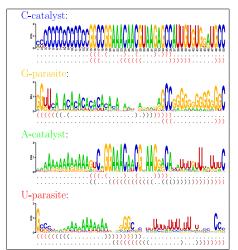
Evolution of Populations



Evolution of Sequences, Structures & Interactions



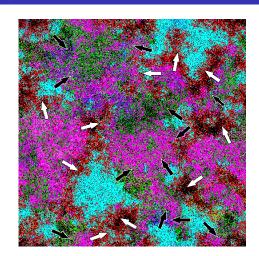




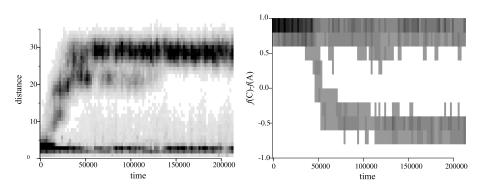


Evolution of Ecosystem





Speciation



■ Chain reactions of niche generation & speciation



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