特 集

理論集団生物学の諸問題

編集 松 田 博 嗣

はじめに	九州大学理学部	松 田 博 嗣
一集団生物学の位置づけ		
集団の地域分化と種の分化	国立遺伝学研究所	高 畑 尚 之
分子進化の集団遺伝学的機構	名古屋大学教養部	石 井 一 成
進化生態学における最適原理	佐賀医科大学	山 村 則 男
なわばりのパターンと機構	統計数理研究所	種 村 正 美
生物社会におけるサイズ分布の特性	京都大学理学部	寺 本 英

KEY WORDS

population biology / population genetics / population ecology / local differentiation / differentiation of species / molecular evolution / neutral theory / optimization principle / inclusive fitness / evolutionarily stable strategy / territory / size distribution / Zipf's law.

ABSTRACT

Topics in Theoretical Population Biology

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After an introduction giving an outline and the editor's view of population biology, the following selected topics are reviewed by five authors:

- (1) N. Takahata (National Institute of Genetics): Local Differentiation of Population and Differentiation of Species.
- (2) K. Ishii (College of General Education, Nagoya University): Population Genetical Mechanism of Molecular Evolution.
- (3) N. Yamamura (Department of Natural Science, Saga Medical School): Optimization Principle in Evolutionary Ecology.
- (4) M. Tanemura (Institute of Statistical Mathematics): Pattern of Territory and Mechanism of its Formation.
- (5) E. Teramoto (Department of Biophysics, Faculty of Science, Kyoto University): Population Size Distribution of Biological Communities.