

# 第40回 MEE seminar

## Mathematical Ecology & Evolution

2012年12月13日(木) 16:30～17:30

明治大学生田キャンパス第二校舎A館: A206

December 13, 2012. 16:30～17:30 Meiji Univ. Ikuta campus A206

小田急小田原線 「生田駅」から徒歩10分  
又は「向ヶ丘遊園」駅北口から「明治大学正門前」行きバスで15分終点下車  
詳しくは、[http://www.meiji.ac.jp/koho/campus\\_guide/](http://www.meiji.ac.jp/koho/campus_guide/) をご覧ください

### Application of kernel approximate Bayesian computation for population genetic study

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The Institute of Statistical Mathematics

**Abstract:** Approximate Bayesian Computation (ABC), which is a likelihood-free approach for Bayesian inferences, is a rejection-based method that applies a tolerance of dissimilarity between summary statistics from observed and simulated data. The approximation to a posterior density given data can be improved by adding summary statistics. Acceptance rates, however, significantly decrease with increasing number of summary statistics in the limit of zero tolerance. Here, we apply a new kernel-based ABC proposed by Fukumizu et al. (2011) into population genetic study and evaluate the performance of demographic inferences using a large number of summary statistics.

参加自由です。皆様のお越しをお待ちしております。

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