

# 第20回 MEE SEMINAR

## MATHEMATICAL ECOLOGY & EVOLUTION

**2010年5月18日(火) 14:40~16:10**

**明治大学生田キャンパス第二校舎A館：A207**

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/) をご覧下さい

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**Meiji Univ. Ikuta campus A207**

# Mathematical model of bone remodeling based on antagonistic adaptability

## Masahiro Yamaguchi (Meiji University)

### Abstract:

Bones are in a state of dynamic equilibrium with bone resorption and bone formation. It's called Bone Remodeling. Bone remodeling is intimately involved in the illness such as the osteoporosis. So it is a very important medical subject not only its kinetics. Therefore, based on accumulation of cytophysiological knowledge about it, various mathematical models have been suggested that incorporated detailed mechanism. Though, a lot existing model is far too complex to understand the core of its dynamics. The study aims to construct the interaction model based on antagonistic adaptability and capture the essential features of the dynamics.

**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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