

## GCOE Tutorial Workshop

# Biomathematics of Structured Populations

with a Mini-Symposium in Honor of Professor Yasuhiro Takeuchi

Graduate School of Mathematical Sciences, University of Tokyo

October 30 (Tuesday) ~ November 2 (Friday), 2012

056 Lecture Room and Lecture Hall

<http://www.rcai.riken.jp/petadimension/GCOE2012.html>

### Time schedule

October 30 (Tuesday): Room 056

13:00-13:10 Opening (Hisashi Inaba)

13:10-14:10 Lecture by Odo Diekmann I

14:25-15:25 Lecture by J.A.J. Metz I

15:45-16:45 Lecture by Mats Gyllenberg I

17:00-17:30 Contributed talk (R. Oizumi)

October 31 (Wednesday): Room 056

09:30-10:30 Lecture by Odo Diekmann II

10:45-11:45 Lecture by J.A.J. Metz II

13:30-14:30 Lecture by Mats Gyllenberg II

14:45-15:45 Lecture by Gergely Röst

16:00-17:30 Contributed talks (Y. Nakata, Y. Enatsu, Y. Tachiki)

November 1 (Thursday): Room 056

09:30-10:30 Lecture by Wendi Wang

10:45-11:45 Lecture by Takenori Takada

13:30-14:30 Lecture by Hiroshi Nishiura

14:45-15:45 Lecture by Odo Diekmann III

16:00-17:00 Discussion chaired by Yoh Iwasa

18:00-20:00 Banquet (common room)

November 2 (Friday): Lecture Hall

9:30-9:40 Ryusuke Kon Introduction

9:40-10:00 Ryusuke Kon (U of Miyazaki) Population cycles induced by age-specific interactions

10:00-10:20 Shinji Nakaoka (RIKEN) Modeling and simulation study on dynamic process of inflammation at the skin tissue

10:20-10:40 Shigehide Iwata (FRA) Mathematical biology and my development  
-Through the meeting with Prof. Takeuchi-

11:00-11:20 Shingo Iwami (Kyushu U) Function of Vpu among HIV-1 human-to-human spread

11:20-11:40 Satoru Morita (Shizuoka U) Metapopulation Dynamics in Stochastic Environment

11:40-12:00 Kazunori Sato (Shizuoka U) Maximum sustainable yield for discrete-time population model

12:00-13:30 Lunch break

13:30-14:00 Toru Sasaki (Okayama U) A note on construction of Lyapunov functions for some ODE systems

14:00-14:30 Tsuyoshi Kajiwara (Okayama U) Lyapunov functionals for delay differential equations in virology and epidemiology

14:50-15:20 Yoshihisa Morita (Ryukoku U) Lyapunov functions and stationary problems of reaction-diffusion systems with the mass conservation

15:20-15:50 Toshiyuki Namba (Osaka Pref U) Dynamics of Ecological Communities

16:00-16:40 Wendi Wang (South West U) Dynamical behaviors in some HIV infection models

16:50-17:30 Yasuhiro Takeuchi (Aoyama Gakuin U) TBA