

## The NIBB International Practical Course

The first NIBB International Practical Course was held in 2007 with the aim of providing young scientists around the world with opportunities to learn cutting-edge experimental skills and to communicate with experts in the field. The 6th course was held as a joint course with TLL, Singapore, in 2011 as summarized below. The course was held in a laboratory provided by NIBB and equipped with the necessary instruments and tools and a good supply of experimental materials.

### The 6th NIBB International Practical Course and The 1st NIBB - TLL Joint International Practical Course “Developmental Genetics of Medaka IV”

- Period: November 14(Mon) - November 21(Mon), 2011
- Participants: 15(4 from Japan, 2 from Taiwan, one each from Hong Kong, South Korea, China, Singapore, Norway, Canada, USA, Italy, India)
- Lecturers:
  - Dr. Christoph Winkler (National University of Singapore, Singapore)
  - Dr. Jun KITANO (National Institute of Genetics, Japan)
  - Dr. Minoru TANAKA (NIBB, Japan)
  - Dr. Rie KUSAKABE (Kobe University, Japan)
  - Dr. Minoru SHINYA (National Institute of Genetics, Japan)
  - Dr. Tomonori DEGUCHI (National Institute of Advanced Industrial Science and Technology, Japan)
  - Dr. Yoshihito TANIGUCHI (Keio University, Japan)
- Course Staff from NIBB:
  - Kiyoshi Naruse, Takao Sasado, Yusuke Takehana, Yasuhiro Kamei, Masatoshi Nakamoto, Tetsuaki Kimura, Yukiko Oginō
- Contents of the course:
  - Transgenic Medaka (BAC homologous recombination and transposon mediated gene transfer)
  - Cryopreservation of sperm and artificial insemination
  - Local gene induction with infrared laser-evoked gene operator (IR-LEGO) method
  - Forward genetics approaches with ENU mutagenesis (Demonstration)
  - Reverse genetics approaches with TILLING (Targeting Induced Local Lesion IN Genome) method



## The NIBB Genome Informatics Training Course

NIBB organizes a series of training courses on up-to-date research techniques for researchers from mainly Japanese universities and institutions. In 2011 we held training courses on genome informatics. The two-day programs offer lectures and hands-on tutorials to introduce basic knowledge and skills to deal with genomic scale large data such as next-generation sequences (NGS). The programs are specially designed for biologists who are not familiar with bioinformatics.

- Period: 1st course March 10 (Thu) -11 (Fri), 2011  
2nd course September 8 (Thu) -9 (Fri), 2011
- Organizer: Dr. Shuji Shigenobu (NIBB)
- Lecturers: Dr. Ikuo Uchiyama, Dr. Katsushi Yamaguchi, Dr. Shuji Shigenobu (NIBB Core Research Facilities)
- Participants: 1st course: 23 (including 3 from NIBB)  
2nd course: 15 (including 4 from NIBB)
- Topic: “Introduction to Next-generation Sequence Data Analysis”
  1. Overview: NGS data analysis
  2. UNIX for beginners
  3. Programming for biologists
  4. NGS data formats
  5. NGS tools
  6. Exercise

