

## NIG Workshop: Evolution of Junk DNAs

Dates: Saturday, June 22nd and Sunday, June 23rd

Place: Auditorium, National Institute of Genetics, Mishima

How to get to National Institute of Genetics = <http://www.nig.ac.jp/about/map.html> (in Japanese)

Anyone is welcome for attending this workshop.

All talks will be in English.

Lunchboxes (500 yen per box) on Saturday and Sunday are available upon reservation.

Dinner Party on Saturday is open to anyone. Participation fee is 3000 yen.

Please contact Ms Mizuguchi Masako ([mmizuguc@nig.ac.jp](mailto:mmizuguc@nig.ac.jp)) for reserving lunch boxes and/or dinner party.

### Program

#### Saturday, June 22nd

10:00 - 10:10 Opening Remarks

10:10 - 12:10 Talks 1-4: Dr. Akashi, Dr. Takano, Dr. Takahashi, Dr. Nozawa

12:10 - 13:30 Lunch break

13:30 - 15:30 Talks 5-8: Dr. Ohta T., Dr. Hayashizaki, Dr. Gojobori, Dr. Graur

15:30 - 15:45 Tea Break

15:45 - 17:45 Talks 9-12: Dr. Satta, Dr. Hanada, Dr. Itoh, Dr. Niimura

17:45 - 18:15 General Discussion

18:30 - 20:00 Dinner Party (NIG Guest House)

#### Sunday, June 23rd

10:00 - 12: 00 Talks 13-16: Dr. Imanishi, Dr. Endo, Dr. Mano, Dr. Suzuki

12:10 - 13:30 Lunch break

13:30 - 16:00 Talks 17-20: Dr. Ikeo, Dr. Oota S., Dr. Osada, Dr. Sumiyama, Dr. Saitou

16:00 - 16:30 General Discussion

### Speakers and titles

Dr. Akashi Hiroshi

Professor, Division of Evolutionary Genetics, National Institute of Genetics

Title: Test for tissue-specific codon usage adaptation in Drosophila

Dr. Endo Toshinori

Professor, Graduate School of Information Science and Technology, Hokkaido University

Title: Functional non-coding elements as the evolutionary driving force

Dr. Gojobori Takashi

Professor, Laboratory for DNA Data Analysis, National Institute of Genetics

Title: The world view of Susumu Ohno

Dr. Dan Graur

John and Rebecca Moores Professor, Department of Biology & Biochemistry, University of Houston

Title: "How to Assemble a Human Genome? Mix generous amounts of Junk DNA and Indifferent DNA, add a Dollop of Functional DNA and a Sprinkling of indifferent DNA (Malicious DNA optional)"

Dr. Hanada Kosuke

Associate professor, Kyushu Institute of Technology

Title: Many genes associated with morphogenesis are hidden in genomes

Dr. Hayashizaki Yoshihide

Program Director, RIKEN Preventive Medicine and Diagnosis Innovation Program

Title: Functional RNA produced from junk DNA

Dr. Ikeo Kazuho

Associate Professor, Laboratory for DNA Data Analysis, National Institute of Genetics

Title: MASER: Data analysis system for NGS Sequence Data

Dr. Imanishi Tadashi

Professor, Medical School, Tokai University

Title: Long-range linkage disequilibrium observed in the human genome

Dr. Itoh Takeshi

Unit Leader, National Institute of Agrobiological Sciences

Title: Genome- and transcriptome-wide analysis of major cereal crops

Dr. Mano Shuhei

Associate Professor, Institute of Mathematical Statistics

Title: Modeling and Inference of complex selective mechanisms

Dr. Niimura Yoshihiro

Associate Professor, Graduate School of Agricultural and Life Sciences, The University of Tokyo

Title: Expansion and contraction of the olfactory receptor universe: What determines the fate of genes?

Dr. Nozawa Masafumi

Assistant Professor, Laboratory for DNA Data Analysis, National Institute of Genetics  
Title: Evolution of microRNAs and their targets in *Drosophila* species

Dr. Oota Satoshi  
Researcher, RIKEN Bioresource Center  
Title: Chaos in evolution

Dr. Ohta Tomoko  
Professor emeritus, National Institute of Genetics  
Title: Drift, selection and epigenetics

Dr. Osada Naoki  
Assistant Professor, Division of Evolutionary Genetics, National Institute of Genetics  
Title: Finding evidence for weak compensatory evolution

Dr. Saitou Naruya  
Professor, Division of Population Genetics, National Institute of Genetics  
Title: Sudden expansion of genome sizes in independent eukaryote lineages

Dr. Satta Yoko  
Professor, Department of Evolutionary Studies of Biosystems, The Graduate University for Advanced Studies (SOKENDAI)  
Title: Tempo and mode of pseudogenization in primate evolution

Dr. Sumiyama Kenta  
Assistant Professor, Division of Population Genetics, National Institute of Genetics  
Title: Origins of cis-regulatory elements in "Junk Yard"

Dr. Suzuki Yoshiyuki

Professor, Graduate School of Natural Sciences, Nagoya City University

Title: Detecting natural selection from the comparison of synonymous and nonsynonymous substitutions

Dr. Takahashi Aya

Associate Professor, Graduate School of Science and Engineering, Tokyo Metropolitan University

Title: Genome-wide expression analyses using allelic samples from a natural population of *Drosophila*

Dr. Takano Toshiyuki

Professor, *Drosophila* Genetic Resource Center, Kyoto Institute of Technology

Title: Gene expression noise in the *Drosophila* testis