

Genome Research: Current Challenges and Future Directions

Jan. 21, 2012 International Symposium of NODAI Genome Research Center

<http://www.nodai-genome.org/>

- 9:00—9:05 Welcome **Kanju Ohsawa** (Tokyo Univ. Agric.)
- 9:05—9:10 Opening remarks **Takuji Sasaki** (Tokyo Univ. Agric.)
- 9:10—9:40 Keynote address 1 **Takashi Gojobori** (NIG)
Genome Research with Big Data
~ How can we make "data-driven scientific discovery" possible? ~
- 9:40—10:20 Keynote address 2 **Richard W. McCombie** (Cold Spring Harbor Lab.)
Challenge and opportunities in the application of next generation sequencing technology
- 10:20—10:35 Coffee break
- 10:35—11:05 Symposium speech 1 **Yoshikazu Sugimoto** (SIAG)
New Approaches to Drive Discovery in Bovine Genomics
- 11:05—11:45 Symposium speech 2 **David W. Burt** (The Roslin Institute)
Evolution of Avian Genomes
- 11:45—12:15 Symposium speech 3 **Takahiro Kikawada** (NIAS)
The sleeping chironomid genome project toward understanding molecular context underlying the extreme desiccation tolerance, anhydrobiosis
- 12:15—13:20 Lunch time
- 13:20—14:00 Symposium speech 4 **Aarno Palotie** (Sanger Institute)
Identification of human disease genes after the GWAs era
- 14:00—14:40 Symposium speech 5 **Gavin Kelsey** (The Babraham Institute)
Epigenomic approaches to understanding DNA methylation establishment in mice
- 14:40—15:10 Symposium speech 6 **Ichizo Kobayashi** (The Univ. Tokyo)
Evolutionary genome dynamics revealed by microbial genome comparison
- 15:10—15:25 Short Talks 1-3
- 15:25—16:15 Poster session
- 16:15—16:55 Symposium speech 7 **Blake C. Meyers** (Univ. Delaware)
MicroRNAs as master regulators of the plant NB-LRR defense gene family via the production of phased, trans-acting siRNAs
- 16:55—17:25 Symposium speech 8 **Youko Oono** (NIAS)
A genome-wide transcriptional analysis by mRNA-Seq of Pi-stressed rice seedlings
- 17:25—17:55 Symposium speech 9 **Toru Shimada** (The Univ. Tokyo)
Genomic studies on the relationship between the silkworm and its food plant, mulberry
- 17:55—18:00 Closing remarks **Tomohiro Kono** (Tokyo Univ. Agric.)