KyotoUx 005x

Free online courses from Kyoto University

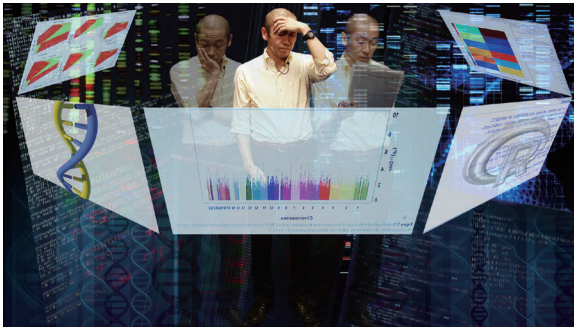# "Introduction to Statistical Methods for Gene Mapping"

Learn about statistical methods used to identify genetic variants responsible for phenotypes.

April 2, 2020 – March 4, 2021

Length: **Self-paced (4 weeks)**
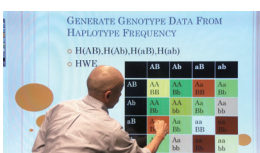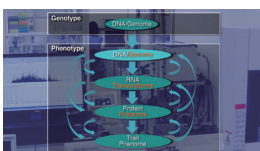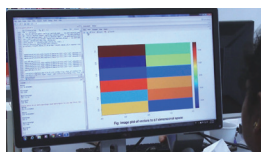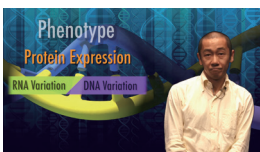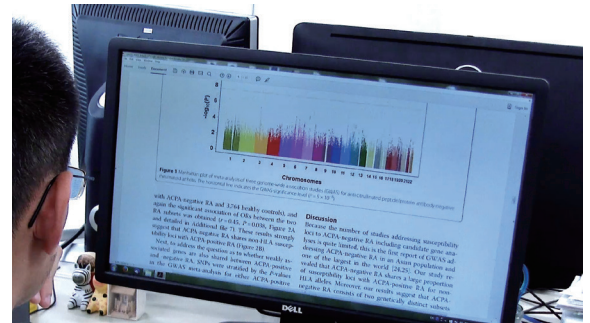
Instructor: **Ryo Yamada, Ph.D.**
Professor of Statistical Genetics, Kyoto University

This data course is a primer to statistical genetics and covers an approach called linkage disequilibrium mapping, which analyzes non-familial data and has been successfully used to identify genetic variants associated with common and complex genetic traits.

We hope many students find this introductory course interesting and are motivated to study further topics in statistical genetics to understand biological variation from statistical standpoints.

Previous knowledge of molecular genetics and basic statistical concepts, such as statistical tests and estimation, is required. Basic knowledge on genetic variations is offered at the start of the course.

Section 1	Basic Knowledge for Gene Mapping
Section 2	Linkage Disequilibrium
Section 3	GWAS and Multiple Testing
Section 4	Common Variants and Rare Variants

https://www.edx.org/course/introduction-to-statistical-methods-for-gene-mappi

kyotoux@highedu.kyoto-u.ac.jp