

Educational projects

In order to discover new findings from observed data, one has to understand the background of the data. Background of the genomic data consists of medicine, biology, genetics and statistics, and thus it is not easy to learn all of these. StaGen Co. Ltd is one of a few companies that can provide the knowledge required to understand genomic data. We can provide a wide variety of curriculums suited to the clients beginning from the provision of basic knowledge to that of specialized knowledge of statistical genetics and genome-based new drug development. Our staff include Naoyuki Kamatani, MD, a pioneer of statistical genetics as well as a clinician, and instructors who have a plenty of experiences in both colleges and companies.

Basic course

The best course for the motivation of researchers and new employees who start genomic researches. This will be a theater-style lecture for up to 3 hours without any limitation in the size of the audience. The text will be provided as a PDF form. The lecture can be recorded as video and can be used within that institution. Responses are as follows.

- I have become interested in statistics that I could not understand.
- The lecture motivated the activities in genomic research in our company.
- I have become able to communicate with our clients regarding statistics and genomics.

Standard Course

The students can understand the standard process of statistical analyses beginning from data acquisition, analysis, interpretation to report of the data. This lecture is of the form of school-style and the curriculum and the difficulty can be customized according to the background knowledge of the audience.

The students can perform a practice of data analysis using simulation data.

- I have become able to understand the theoretical background of the analysis in statistical genetics.
- I have become able to understand papers containing the analyses in statistical genetics.
- I have become able to understand the reports from outside facilities to which we had requested the analyses.

【Index of the standard course】 Statistical genetics and mathematical statistics, Chromosomes and genomic information, Cell division and inheritance of genomic information, Laws of inheritance, Genetic polymorphisms and population genetics, Haplotype and linkage disequilibrium, Linkage analysis, Association study, Study design and power, Pharmacogenomics (PGx), Analysis of the data from next-generation sequencers, Data science, etc.