

Course: No. 94090 (1-1-0) Topics in Translational Biomedical Informatics

The topics of this year are design, application and implication of next generation sequencing technologies available at the video-lectures provided by Harvard Medical School. All attendees are expected to study the video lectures in advance at the following site:

<http://bio-omix.tmd.ac.jp/disease/tr/>

then, to give presentation about the video lecture in each class.

We will welcome all students and faculties regardless of major, to enjoy speakers, discuss hot topics, and share knowledge and experiences.

Instructors:

Akihiko Konagaya, PhD (TITECH)

Masaki Morioka, PhD (TMDU)

Kaoru Mogushi, PhD(TMDU)

Hiroshi Tanaka, PhD(TMDU)

Time and Dates:

13:20 to 14:50

Oct. 21st, 28th, Nov. 11th, 25th, Dec. 2nd, 9th in 2013

Places:

- Suzukakedai Campus: J2-1601 TV Meeting Room
- Ookayama Campus: W8E-1003 Remote Collaboration Room
- Yushima Campus: M&D Tower 23 F Common Seminar Room 3

Syllabus:

- Oct 21st Introduction of the topics in translational biomedical informatics
- Oct 28th Topics: Base calling and quality scores, Genome alignment
 - Video Lectured by Peter J. Park, PhD (1/31/11) two files
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- Nov. 11th Topics: Coverage and depth of sequencing, Design of experiments
 - Video Lectured by Peter J. Park, PhD (2/7/11) two files
- Nov. 25th Topics: NGS Technologies and Design – III
 - Video Lectured by Peter V. Kharchenko, PhD (2/14/11)
- Dec. 2nd Topics: NGS - Applications and Implications
 - Video Lectured by Mark Boguski, MD, PhD (4/11/11)
- Dec. 9th Topics: NGS - Applications and Implications-II: Disease Association and Cancer genomics and NGS - Applications and Implications - III: WGA and personalized medicine
 - video lectured by Peter J. Tonellato, PhD (4/18/11)
 - video lectured by Peter J. Tonellato, PhD (5/2/11)