

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

The topics of this year are design, application and implication of new 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 lectures 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 (Juntendo University)

Masaaki Muramatsu, PhD(TMDU)

Time and Dates:

13:20 to 14:50

Nov. 4th(Tue) , 11th(Tue), 18th(Tue) ,

Dec. 1st(Mon), 9th(Tue) , 16th (Tue) in 2014

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:

Nov. 4th (Tue) Introduction of the topics in translational biomedical informatics

Nov. 11th (Tue) Topics: Base calling and quality scores, Genome alignment

Video Lectured by Peter J. Park, PhD (1/31/11) two files

Nov. 18th (Tue) Topics: Coverage and depth of sequencing, Design of experiments

Video Lectured by Peter J. Park, PhD (2/7/11) two files

Dec. 1st (mon) Topics: NGS Technologies and Design - III

Video Lectured by Peter V. Kharchenko, PhD (2/14/11)

Dec.9th (Tue) Topics: NGS - Applications and Implications

Video Lectured by Mark Boguski, MD, PhD (4/11/11)

Dec.16th (Tue) 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)