

若手研究者インターナショナル・トレーニング・プログラム(ITP)  
バイオインフォマティクスとシステムズバイオロジーの国際連携教育研究プログラム  
ワークショップ参加レポート

Name: Yugo Shimizu
Title: IBSB 2011 and Summer School 2011
Workshop Report: I participated in 11th International Workshop on Bioinformatics and Systems Biology (IBSB) and Summer School "Computational Systems Biology" which took place July 17 – 22, 2011 in Berlin, Germany.  IBSB is part of a collaborative educational program involving research institutes: Boston University, Charité – Universitätsmedizin, Berlin, Humboldt-Universität zu Berlin, Max Delbrück Center for Molecular Medicine Berlin, Kyoto University and the University of Tokyo. The workshop took place for 4 days (July 17 – 20). The main part of the workshop is from July 18 to July 20 and there were 28 oral presentations. 29 and more (by some of oral speakers) posters were presented in the afternoon of July 18. I gave a poster presentation entitled as “Analysis of possible repositioning drugs by comparing expression signatures between different cancer types” which was the result of collaborative research with DeLisi laboratory in Boston University supported by ITP. I presented the expansion into new cancer types of the previous method to explore new candidates of anti-cancer drugs by the idea of applying known drugs and compounds to new indications by means of some statistical tests for microarray expression data obtained by Gene Expression Omnibus (GEO) and Connectivity Map (CMAP) database. We investigated 9 new cancer types in GEO database and found that the expansion might be applicable in 4 cancer types of those. Though I received almost general questions and comments from participants, it was a good opportunity to get opinions from the people who had different background from us and to review our work. The levels of presentation skill of the participants from Germany and USA were high and I realized that Japanese need to improve the presentation skill and English. There were nice events to promote friendships between the participants - tours through the Medical Historical Museum of the Charité and boat tour on the river Spree with dinner though most of participants from Kyoto unfortunately could not participate in the former because of flight schedule.  Lectures and computer course about computational systems biology were given as Summer School from July 21 to July 22 - First day: AUTO software for numerical bifurcation analysis and vesicular transport and organelle maturation, Second day: Hidden Markov models and Pathway visualization tool. It was a good opportunity to study close but unfamiliar areas with my research. This experience will become help to get a better understanding of researches done in different areas of bioinformatics and systems biology.  Finally, I express my gratitude for Minoru Kanehisa, Susumu Goto and Hiroshi Mamitsuka who gave me such a precious and valuable chance and also thank all the participants.

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Poster Session



Coffee Break



Summer School