The 5th ACGG-DB Meeting in Dalian

Since the ACGG-DB meeting in Okinawa (April, 2012), we in Japan have been developing the foundation for a standardized format for representing all possible glycan structures. We have also called upon major glyco-database developers to work on a standard by which existing databases can be made available from the Semantic Web*. During this time, it has been noted by the National Academy of Sciences (NAS) Glycoscience Report which came out last year that there is currently no centralized repository for glycan data like there is for nucleotide sequences (the International Nucleotide Sequence Database Collaboration, INSDC) or protein sequences (UniProt). It was also discussed at the Warren Workshop last year that there is also no system for registering glycan structures and issuing accession numbers to them. Therefore, we feel it is now time to discuss and prepare for the next step: the possibilities for building an international glycan data repository based on the Semantic Web.

We are aware that many different groups have been working towards and discussing the development of a centralized glycan repository. However, considering the breadth of this field, we feel that to accomplish the development of such a system for the entire glycoscience community, an international effort is essential. Therefore, at the 5th ACGG-DB meeting in Dalian, China, we are trying to invite major researchers whom we feel are essential to propel this project forward. We are planning on having a one-day meeting, with the first half consisting of presentations of glyco-resources from around the world, and the latter half consisting of discussions and preparations. During the discussion, we welcome any proposals for plans towards building this global framework. We hope to achieve a consensus to realize an international glycan data repository and a uniform glycan ID system as a result of this meeting.

* Semantic Web: Also called Web 3.0, the Semantic Web is a new technology that adds meaning to data on the web. By making data available on the web together with their meaning or context, web searches and relationships between terminologies can be retrieved computationally. Life science databases including UniProt have begun the making their data available on the Semantic Web, and although this is still new technology, it is expected that as the technology progresses, more databases will eventually become linked together on the Semantic Web. For glycoscience data in particular, the Semantic Web provides the most appropriate framework for linking glycan data with all of the many counterparts with which they interact.
DATE
June 22nd, 2013

VENUE
Conference room “Youyi-gong” (友誼宮), ground floor, Dalian Hotel, Dalian, P.R. China

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Program

Opening Session
9:00-9:20
H. Narimatsu Opening Address
K.F. Aoki-Kinoshita Purpose of ACGG-DB5 Meeting

Presentation Session
9:20-10:00  “Activities for Glycan Data Standardization”
H. Sawaki Activities in Japan for Glycan Data Standardization
R. Ranzinger MIRAGE, standards, databases: How it all fits together

10:00-12:00 “Resource and Proposal for Glycan Data Standardization -1”
(including 20 minutes coffee break)
T. Shikanai JCGGDB
M. Campbell UniCarbKB: Challenges with Building a Glycoprotein Knowledgebase
P. Toukach Carbohydrate Structure Databases (CSDB)
P.Y. Yang TBA
R. Cummings TBA

12:00-13:30 ==Lunch Break==
(at a restaurant in Dalian Hotel, order and pay by yourself.)

13:30-14:30 “Resource and Proposal for Glycan Data Standardization -2”
W. Ying Progresses on the protein core-fucosylation
J. Kim Structure of human glycome atlas DB
D. Hsu Is there a role for literature mining in construction of glycobiology pathways?

Brainstorming Session
14:30-16:30 “International Glycan Data Repository System”
(including 20 minutes break)
Topics for Discussion: Target Data-type, Required Functions, framework and Model Projects
Facilitator: K.F. Aoki-Kinoshita / H. Sawaki

Closing Remarks
16:30-17:00 H. Narimatsu

We are planning to hold a convivial dinner nearby Dalian Hotel.
GENERAL INFORMATION

Venue
Dalian Hotel (大连宾馆)
Address: Dalian City, Zhongshan Park Num.4, postal code 116001
(大连市中山区4号 邮编：116001)
Tel 86-411-82633111
E-mail dlhotel@dl-hotel.com
URL http://www.dl-hotel.com

Access
Most recommended way to Dalian Hotel is by taxi. It will take about 40 minutes and cost 30RMB (about 5US$) from Dalian Zhoushuizi International Airport.

http://goo.gl/maps/NZtY0