

「National Institute of Advanced Industrial Science and Technology ▪ Waseda University ▪ Biological System Big data Analysis Open Innovation Laboratory (CBBDOIL)---Meeting to report results in 2016」 Record

◆ Outline ◆

Date : 13:00 ~ 17:00 on Monday, 13th of March in 2017

Venue for the conference: The hall in Nihonbashi-campus of Waseda University
Nihonbashi 1 tyoume Mitsui building (Coredo Nihonbashi) 5th floor
1-4-1 Nihonbashi Chouu-ku, Tokyo

◆The order of the Ceremony ◆

Shown on the next page of Printing delivered on that day

◆ Record ▪ Report ◆

First Section

Regarding the results of OIL, leading by Ms. Sachiyo Aburatani, the deputy of CBBDOIL, Mr. Hiroyuki Yasunaka, the trustee of AIST had the opening remarks and Congratulatory speech was given by Mr. Kenji Ueki the Director for Research development Section in Industrial Science and Technology Policy and Environment Bureau in METI. After this, Mr. Takashi Gojoubori , the professor of Abdullah University of Science and Technology (KAUST) had a Keynote Speech entitled “Expect the Unexpected for Big Data Analysis Open Innovation ”. Then followed Ms. Haruko Takeyama, the head of CBBDOIL explained the outline about the result reports of OIL in 2016 opened on 29th of July.

About concrete details on the result of two groups, at the head of Mr. Michiaki Hamada, the group leader of the Sequence analysis algorithm group and Mr. Mr. Daisuke Tominaga , the group leader of the system biology group, they had 4 reports “refer to the order on a next page about report subjects and reporters ”

Second Section

The report of RA activity and mediation: On the situation for that One of OIL's aims is “To nourish a practical doctor”, we made six delegates of research assistants (RA) of AIST and the graduate students as active technical trainees had the presentations and then Ms. Aburatani, the deputy of CBBDOIL had a report that the activity condition of CBBDOIL to put “the seamless research system of OIL” into practice for the base of “Industry, University and Government cooperation” .

And Mr. Eiichi Tamiya, a professor of Osaka University, and a head of PhotoBio-OIL had a report the outline of “High Technology Photonics, Biosensing Open Innovation Laboratory (Photo-Bio -OIL)AIST ,Osaka University” that established in January in 2016 in the field of Biotechnology as same as this OIL. After this, the criticisms were given by Mr. Makoto Matsui, the director of cooperate BD department of Eisai Co.,Ltd and Mr. Katsunori Matsuoka, a trustee of National Institute of Japan and Technology/ a head of the Biotechnology field.

Poster : Three posters from the Sequence Analysis Algorithm group, Four posters from the Systems Biology group

Attendee: invitees, Ministry of Economy, Trade and Industry, Waseda University, and core members of the participator of CBBDOIL 48 participants

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1. Date : 13:00 ~17:00 on Monday, 13th of March in 2017 (12:00)

2. Venue for the conference: The hall in Nihonbashi-campus of Waseda University
Nihonbashi 1 tyome Mitsui building (Coredo Nihonbashi) 5th floor
1-4-1 Nihonbashi Chuou-ku, Tokyo

◆The order of the meeting to report results◆

coordinator : Ms. Sachiyo Aburatani, the deputy of CBBDOIL

(0) Start accepting ▪ the poster browsing (12:00-13:00)

First Section About the Result of CBBDOIL (13:00-15:15)

Opening Remarks : Mr. Hiroyuki Annaka, a trustee /a general manager of planning Department

Congratulatory Speech : Mr. Kenji Ueki, the Director for Research development section in Industrial Science and Technology Policy and Environment Bureau in METI

Keynote Speech : Mr. Takashi Gojoubori, the distinguished professor of Abdullah University of Science and Technology (KAUST) had a Keynote Speech

The progress reports of CBBDOIL Outline : Ms. Haruko Takeyama, the head of CBBDOIL

The progress reports of the Sequence analysis algorithm group

5-1 : “Bio-informatics technology Development for the solution of a long chain non-coding RNA's functions ”

Mr. Michiaki Hamada a group leader of algorithmic Sequence analysis of CBBDOIL/ an associate professor of a science and engineering Waseda University graduate school (15 min)

5-2 : “ Understanding variation and changes in large-scale DNA sequences ”

Mr. Martin Fris

5-3 : “Technology Development of Secure Information Analysis for organism big data”

Ms. Kana Shimizu,

5-4 : “the development of technology for epigenome information analysis ”

Mr. Yutaka Saito

The progress reports of the system biology group

6-1: “About the Research of the Systems Biology”

Mr. Disuke Tominaga, a group leader of the Systems Biology group

6-2: “the analysis of the coexistent bacterias in the bodies and the mutual interaction among hosts as a model organism for a drosophila ”

6-3: “the metagenome analysis of intestinal flora of human bodies by using of the technology for the monomolecular real time sequence ”

Mr. Suguru Nishijima,

6-4 : “Search to the key gene for an enhanced production of the useful material ”

Mr. Kazuki Mori,

An interval (15 min)

Second Section the Report of RA activity and Mediation (15:30–17:00)

7: RA ▪ the Presentation by technical trainees (2 persons x 10min. or 4 persons x 5min.) (40min)

8: The forum reports of CBBB–OIL: Ms. Sachiyo Aburatani, the deputy of CBBB–OIL (10min)

9: About the cooperation activities among OILs: Mr. Eiichi Tamiya, a professor of the Graduate School of Engineers in Osaka University / the head of PhotoBIO–OIL

10: Criticism: Mr. Makoto Matsui, the director of a cooperate BD Department in Eisai Co., Ltd

11: Criticism: Mr. Katsunori Matsuoka, a trustee and the head of Biotechnology field in National Institute of Advanced Industry and Science Technology

12: Closing Speech: Mr. Jun Takeuchi, the head of the Academic department of Science and Technology in Waseda University

13: Photographing

◆Report of progress · the First Section ◆



Keynote Speech by Mr. Takashi Gojoubori Professor(KAUST): Outline of the progress report by Ms. Haruko Takeyama, the head of CBBB-OIL : the progress reports of the sequence analysis algorithm group (Mr. Michiaki Hamada, the group leader; Mr. Frith Martin , Ms. Kana Shimizu, Mr. Yutaka Saito)

The progress report of the Systems Biology group (Mr. Daisuke Tominaga , the groupleader; Mr. Hisashi Anbutsu ; Mr. Suguru Nishijima, Mr. Kazuki Mori)

◆Report of progress • the Second Section◆



Presentations by the technical trainees (Mr. Jun Nakayama; Mr. Tooru Maruyama, Mr. Yuki Ueno, Ms. Rieka Chijiwa, Mr. Masato Ogawa, Mr. Keigo Ide,)

Forum Report by Ms. Sachiyo Aburatani, the deputy of CBBB-OIL; The introduction of PhotoBIO-OIL by Mr. Eiichi Tamitani, the Professor (of Osaka University)

◆ Group Photo ◆



Rear row: Mr. Mori, Mr. Nakayama, Mr. Maruyama, Mr. Saito, Mr. Frith, Mr. Hamada, Mr. Tominaga, Mr. Nishijima, Mr. Ueno, Mr. Ogawa, Mr. Ide, Ms. Chijiwa

Middle row: Mr. Katsunori Matsuoka(AIST), Mr. Eiichi Tamiya, (Osaka University), Mr. Jun takeuchi, the professor and the head of Academic Department of Science and Engineering, Waseda University

Front row: Mr. Hiroyuki Annaka (AIST), Mr. Makoto Matsui, a director (Eisai Co., Ltd), Mr. Takashi Gojoubori Professor(KAUST), Ms. Takeyama, Ms. Aburatani , Ms. Shimizu,