

Food, exercise and technology for health promotion

Waseda Bioscience Research Institute - Organization for University Research Initiatives
— Core-to-Core Program of Japan Society for the Promotion of Science - Private
University Research Branding Project of the Ministry of Education, Culture, Sports,
Science and Technology(MEXT)

Joint Symposium 2018



WASEDA Bioscience Research
Institute in Singapore (WABIOS)



MEXT
MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN



Waseda University
Organization for University Research Initiatives

Core-to-Core Program



5 January 2018

Matrix Building Level 4, Biopolis, Singapore 138671

9. 30-: Registration

Opening remark:

10:00:

Prof. Takafumi Inoue (Faculty of Science and Engineering, Waseda University)

Title: 3D Lab Exchange Program among Japan, Singapore, Germany, Italy and USA

Symposium I : Food and physical activity for prevention of lifestyle disease

Chair: Prof. Shigenobu Shibata

10:10:

Assist. Prof. Masaki Takahashi (Waseda Bioscience Research Institute in Singapore)

Title: Overview of Aging Research Project in WABIOS, and importance of timing of meal and exercise for clinical application

10:30:

Assoc. Prof. Masashi Miyashita (Faculty of Sport Sciences, Waseda University)

Title: Impact of physical activity and physical inactivity on postprandial metabolism in older adults

10:50:

Assoc. Prof. BURNS Stephen Francis (Department of Physical Education & Sports Science, Nanyang Technological University)

Title: Physical activity and dietary interactions for the prevention of lifestyle diseases in Asians.

11:10-Coffee break

Symposium II : Physical activity, exercise, and physiological function

Chair: Assoc. Prof. Masashi Miyashita

11:30

Dr. Lee Kai Wei Jason (Defence Medical & Environmental Research Institute, DSO National Laboratories)

Title: Physiological demands of a 68-day military course on cognitive and physical performance.

11:50

Mr. Hiroyuki Sasaki (Graduate School of Advanced Science and Engineering, Waseda University, AIST-Waseda University Computational Bio Big-Data Open Innovation Laboratory (CBBB-OIL))

Title: Relationship between food timing or exercise timing and microbiota

12:10

Prof. Yasuo Kawakami (Faculty of Sport Sciences, Waseda University)

Title: Synergistic effect of exercise and functional foods on the physical performance of the elderly: from the perspective of chrono-nutrition & kinesiology

12:30am-14:30: Lunch and Poster Session

Poster presenter and title

1) **Mr. Takeru Shimoda (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: BCAA intake for breakfast promotes muscle hypertrophy

2) **Ms. Mayuko Fukazawa (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: The relationship between lifestyle index and clock gene expression in the hair follicle cells in human

3) **Ms. Ayaka Hatano (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: Effects by miso-derived flavonoids on histone- modification

4) **Ms. Mayu Tanaka (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: Pheophorbide A methyl ester from *Glebionis coronaria* affects histone modifications

5) **Ms. Midori Kawamura (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: Search for bioactive food ingredients affecting neural differentiation

- 6) **Ms. Rina Soma (Graduate School of Advanced Science and Engineering, Waseda University)**

Title: Fatty acid derivatives inducing to cardiomyocytes from mouse embryonic stem cell

- 7) **Dr. Daisuke Arai (Research Institute for Science and Engineering, Waseda University)**

Title: Piceatannol promotes neural stem cell differentiation into astrocytes

Symposium III : Aging, Immunology, and Biochemistry

Chair: Dr. Masaki Takahashi

14:30

Dr. TAN Eng Lee (Centre for Biomedical & Life Sciences, Singapore Polytechnic)

Title: Introduction of the department Technology Innovation & Enterprise and Centre for Biomedical & Life Sciences

14:50

Dr. Anis LARBI (Singapore Immunology Network, A*STAR)

Title: Food and exercise in older adults: impact on the immune system and beyond

15:10

Ms. Rie Kamihira (Graduate School of Advanced Science and Engineering, Waseda University)

Title: Differentiation system to cardiomyocytes using mouse embryonic stem cells.

15:20

Mr. Fumiaki Nakamura (Graduate School of Advanced Science and Engineering, Waseda University)

Title: Search for ingredients from the traditional Chinese medicine that affect expression rhythms of the clock gene Per2

15:30-Coffee break

SymposiumIV : Food ingredients and function

Chair: Dr. Satoshi Arai

15:50

Dr. Xu Yunyun (Food Innovation & Resource Centre, Singapore Polytechnic)

Title: Functional food ingredient development for general health & wellness.

16:10

Mr. Satoshi Otsuka (Graduate School of Advanced Science and Engineering, Waseda University)

Title: Evaluation of effects on neural development by food constituents and environmental chemicals

16:20

Mr. Koshi Machida (Graduate School of Advanced Science and Engineering, Waseda University)

Title: Search for metabolites in Japanese “miso” regulating histone modifications

16:30

Prof. Youichi Nakao (Faculty of Science and Engineering, Waseda University)

Title: Systematic strategy for the search of functional food ingredients

Closing remark:

16:50

Prof. Shigenobu Shibata (Faculty of Science and Engineering, Waseda University)