Welcome address
9:30 ~ 9:35  Dr. Hiroshi Hiratsuka (President of Gunma Univ.)

Session I: Omics approach in basic, translational and clinical research
9:35 ~ 10:05  Coordinated Controls of checkpoints and metabolism by E4F1: Toward novel synthetic lethal approaches to cancer vulnerabilities
Dr. Claude Sardet (Montpellier cancer research institute, Univ. of Montpellier)

10:05 ~ 10:35  Bioinformatics to uncover gene essentiality and synthetic lethality in large data sets
Dr. Jacques Colinge (Montpellier cancer research institute, Univ. of Montpellier)

10:35 ~ 10:50  COFFEE BREAK

10:50 ~ 11:20  Clinical application of human iPS cells for the treatment of patients with severe congestive heart failure
Dr. Keiichi Fukuda (Dept. of Cardiology, Keio Univ. Sch. of Medicine)

11:20 ~ 11:50  Discovery of a Novel Biomarker of Food Allergy
Dr. Takahisa Mano (Dept. of Animal Anatomy, The Univ. of Tokyo)

11:50 ~ 12:20  A trans-omic reconstruction of insulin-dependent regulatory networks for metabolism
Dr. Katsuyuki Yagi (JIRMN Center for Integrative Medical Sciences)

Luncheon Seminar
12:30 ~ 13:15  Metabolome, metabolic flux, and targeted proteome analyses of the central carbon metabolism and data visualization using GARUDA platform
Dr. Fumio Matsuda (Dept. of Bioinformatic Engineering, Osaka Univ. Grad. Sch. of Information Science and Technology)

Session II: GIAR – Diversity and Inclusion
13:20 ~ 13:45  Dietary whole grain modifies microbiota and enhances production of trimethylated compounds associated with energy metabolism
Dr. Ari Hänninen (Dept. of Public Health and Clinical Nutrition, Univ. of Eastern Finland)

13:45 ~ 14:10  GTP Metabolic Switch leads to Nucleolar Transformation and Malignant Growth of Cancer Cells
Dr. Atsu Saeki (Dept. of Internal Medicine, Univ. of Cincinnati, College of Medicine)

14:10 ~ 14:35  Heading towards clinical implementation of omics-based medicine
Dr. Reiwa Sawabata (Dept. Molecular Pharmacology and Oncology, Gunma Univ. Grad. Sch. of Medicine)

14:35 ~ 15:00  Statistical methods for big data in medical research
Dr. Yasunori Sato (Dept. of Global Clinical Research, Chiba Univ. Grad. Sch. of Medicine)

15:00 ~ 15:15  COFFEE BREAK

15:15 ~ 15:40  Integrating Physics, Chemistry, Molecular and Cellular Biology, and Human Studies in Radiation Research
Dr. Kathryn D. Held (Massachusetts General Hospital / GIAR)

15:40 ~ 16:05  CERS6-dependent Sphingolipid Profile Regulates Lung Cancer Pathogenesis and Metastasis
Dr. Motoshi Suzuki (Fujita Health Univ. Sch. of Medicine, First Dept. of Pathology)

16:05 ~ 16:30  The effect of perinatal gadolinium based contrast agents (GBCAs) injection on adult mice behavior
Miski Aghnia Khairinisa (Dept. of Integrative Physiology, Gunma Univ. Grad. Sch. of Medicine)

16:30 ~ 16:55  New Strategies of the World Health Organization
Dr. Akinori Kama (GIAR- WHO Collaborative Research Lab.)

Special lecture
17:00 ~ 18:00  Lipid metabolism in health and disease
Dr. Takao Shimizu (Lipid Signaling project, National Center for Global Health and Medicine)

Closing remark
18:00 ~ 18:05  Dr. Takashi Izumi (GIAR chairperson/ Vice President of Gunma Univ.)