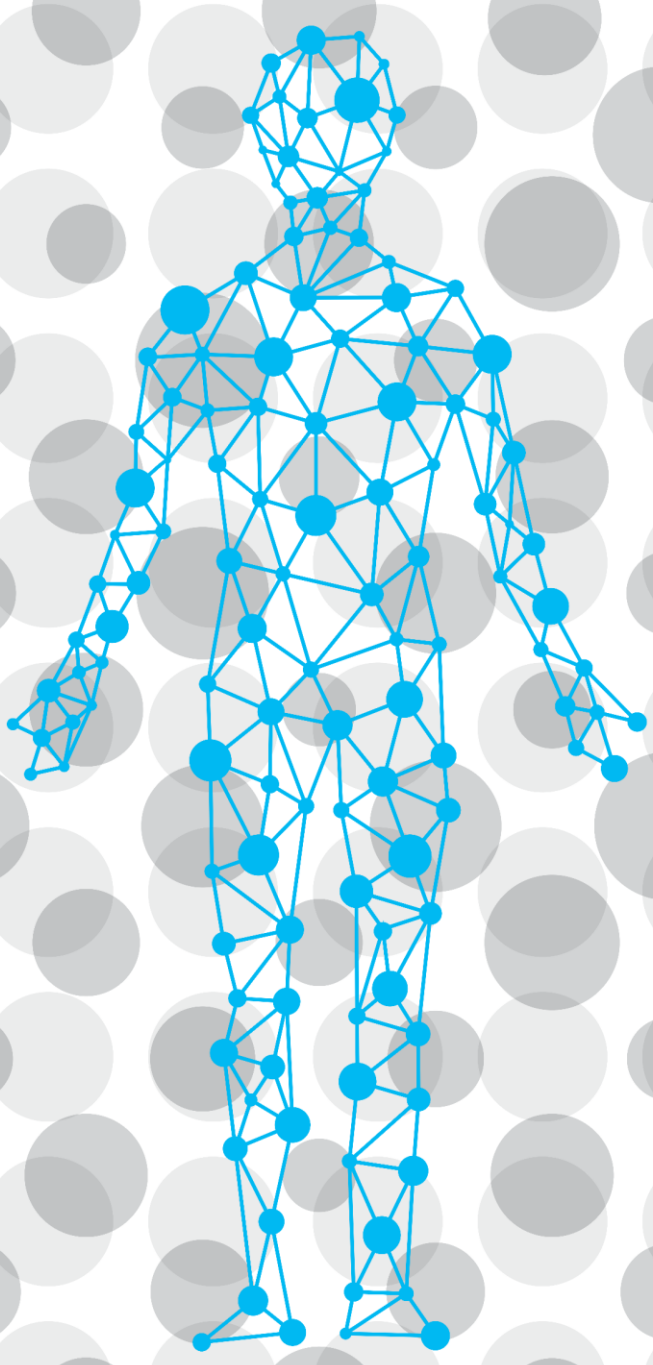
IPR Seminar

BioNetworks in Health and Diseases

April 18-19, 2018

Main Lecture Hall,
Institute for Protein Research,
Osaka University



Speakers

Shizuo Akira (Osaka University)
Lev Becker (University of Chicago)
Luonan Chen (Chinese Academy of Sciences)
Akihiro Fujimoto (Kyoto University)
Hisashi Haga (Hokkaido University)
Yumiko Imai (NIBIOHN)
Garth Ilsley (OIST)
Masato Kubo (RIKEN IMS)
Fumio Matsuda (Osaka University)
Mariko Okada (Osaka University)
Hisashi Tadakuma (Osaka University)
Taichiro Tomida (Toho University)
Masahiro Ueda (Osaka University, RIKEN BDR)
Nozomu Yachie (The University of Tokyo)

In association with "Transomic Analysis of Metabolic Adaptation"

http://www.protein.osaka-u.ac.jp/cell_systems/IPR_seminar_2018.html

Program

Day1 18th April

10:30—11:00 Registration (IPR Foyer)

11:00—11:15 Opening Remarks (IPR director)

Session 1: Networks in Human Diseases (Chair: Mariko Okada)

11:15—11:45 Identification of a novel profibrotic monocyte involved in bleomycin-induced lung fibrosis
Shizuo Akira (Osaka University)

11:45—12:15 Obesity and insulin resistance promote atherosclerosis through an IFNγ-regulated macrophage protein network
Lev Becker (University of Chicago)

12:15 —14:00 Lunch

Session 2: Technology and Omics (Chair: Kazunari Iwamoto)

14:00—14:30 Transomics analysis of the central metabolism in yeast and human cancer cells
Fumio Matsuda (Osaka University)

14:30—15:00 Chasing molecular and cellular dynamics using DNA barcodes
Nozomu Yachie (The University of Tokyo)

15:00—15:30 Construction of DNA origami base gene transcription nano chip
Hisashi Tadakuma (Osaka University)

15:30—16:00 Break

Session 3: Genomics in Network (Chair: Fumio Matsuda)

16:00—16:30 Identification of somatic mutations and analysis of their biological impact in cancer genomes
Akihiro Fujimoto (Kyoto University)

16:30—17:00 Modeling and Omics analysis of NF-κB system
Mariko Okada (Osaka University)

17:00—17:30 Modelling and controlling Drosophila transcriptional enhancers with engineered transcription factors
Garth Ilsley (OIST)

18:00—20:00 Dinner

Program

Day2 19th April

Session4: Imaging of Network (Chair: Shigeyuki Magi)

10:00—10:30 Automated single-molecule imaging analysis in living cells
Masahiro Ueda (Osaka University, RIKEN BDR)

10:30—11:00 Systems analysis of inflammatory JNK/p38 MAPK signaling by FRET imaging
Taichiro Tomida (Toho University)

11:00—11:30 Cancer progression enhanced by mechanical stress
Hisashi Haga (Hokkaido University)

11:30—11:50 IPR Lab Tour1 (Cryo-EM): Assoc. Prof. Iwasaki

11:50—12:10 IPR Lab Tour2 (NMR): Assoc. Prof. Miyanoiri

12:10—13:30 Lunch

Session 5: Diseases & Cancer (Chair: Hisashi Tadakuma)

13:30—14:00 Hunt for the tipping points of complex diseases by network biomarkers and dynamic network biomarkers
Luonan Chen (Chinese Academy of Sciences)

14:00—14:30 A role of NFIL-3/E4BP4 in body composition and allergic immune response
Masato Kubo (RIKEN IMS)

14:30—15:00 Dynamic changes in host nuclear system to influenza virus infection
Yumiko Imai (NIBIOHN)

15:00—15:15 Closing Remarks (Mariko Okada)
