

AMED US-Japan Cooperative Medical Sciences Program (USJCMSP)

*Symposium on Cancer Biology*  
*Decoding Cancer, Immunity,*  
*Metabolism, and Inflammation*  
*from p53*

International & Interdisciplinary Symposium  
on Cancer Research  
— *Cancer, Immunity, Metabolism, and Inflammation* —



CANCER



IMMUNITY



INFLAMMATION



METABOLISM

**March 28 (Sat) – 29 (Sun), 2026**



**Auditorium, National Cancer Center**  
[5-1-1 Tskkij, Chuo-ku, Tokyo]



**Free Admission**

**Program & Abstract**

# AMED U.S.–Japan Cooperative Medical Sciences Program

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## Cancer Panel–Organized International Symposium

### Decoding Cancer, Immunity, Metabolism, and Inflammation from p53

Organizer:

U.S.–Japan Cooperative Medical Sciences Program (USJCMSP), Cancer Panel

Venue: Main Auditorium, National Cancer Center, Tokyo

Dates: March 28–29, 2026

Chair: Rieko Ohki (National Cancer Center Research Institute, Japan)

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## **Day 1 – Saturday, March 28 (13:00–17:55)**

**13:00–13:10** Opening Remarks

Rieko Ohki

### **Session I – Joint US–Japan Medical Research Cooperation Section Session**

Cancer, Immunity, Metabolism, and Inflammation

Chairs: **Yasuyuki Fujita/ Haruna Takeda**

**13:10–13:40 Masanobu Oshima**

Emerging roles of missense mutant p53 in tumorigenesis

**13:40–14:10 Yosuke Tanaka**

Spatial Multiomic Analyses Reveal Carcinogenic Pathways in End-Stage Renal Disease

**14:10–14:40 Yasuyuki Fujita**

CD44v6 defines pre-ADM cells as the cellular origin of pancreatic cancer

**14:40–15:10 Tomonori Matsumoto**

Impact of ploidy alterations on cancer cell behavior and tumor development

**15:10–15:25 Akihiko Fukagawa (Early Career Presentation)**

From Japanese-Enriched Mutagenesis to Subtype Biology: Multi-Omics Insights into ELOC-Mutated Renal Cell Carcinoma

**15:25–15:40 Coffee Break**

### **Session II – Functions of the Most Well-Known Tumor Suppressor Gene p53**

Cancer, Immunity, Metabolism, and Inflammation

Chairs: **Tomoo Iwakuma / Yuki Makino**

**15:40–16:10 Rieko Ohki**

Extrinsic induction of apoptosis and tumor suppression via the p53- Reprimo-Hippo-YAP-p73 pathway

**16:10–16:40 Akihide Yoshimi**

Mechanism-Driven Design of Splicing-Modulating Antisense Oligonucleotides via a Multi-Omics Platform

**16:40–17:10 Marco Candeias**

p53 proto-oncogene activates survival response to integrated stress through  $\Delta 160$ p53-specific target genes

**17:10–17:40 Koji Itahana**

Targeting macrophage iron metabolism via p53 for host defense and cancer therapy

**17:40–17:55 Allison St. John (Early Career Presentation)**

Depletion of dominant-negative mutant p53 improves the efficacy of mutant p53 reactivators

## **Day 2 – Sunday, March 29 (10:00–17:25)**

### **Session III – Functions of p53 in Genetic and Clinical Contexts**

Chairs: **Atsushi Kaneda / Yoshiaki Usui**

**10:00–10:30 Kanaga Sabapathy**

p53 isoforms in cancer and fertility

**10:30–11:00 Koichi Matsuda**

Comprehensive analysis of TP53 germline mutations in the Japanese population

**11:00–11:30 Yoshiaki Usui**

Epidemiological Insights into TP53-Mutant Clonal Hematopoiesis: Risks, Outcomes, and Interactions

**11:30–12:00 Atsushi Kaneda**

Gastric cancer subtypes circumventing apoptosis in the absence of TP53 mutation

**12:00–12:15**

**Shrutee Parkar (Early Career Presentation)**

Ageing control by p53:  $\Delta 246$ p53 isoform as a new player in DNA damage response

**12:15–13:15 Lunch Break**

### **Session IV – Molecular Regulation and Therapeutic Targeting of p53**

Chairs: **Luis A. Martinez / Koji Itahana**

**13:15–13:45 Luis A. Martinez**

The cGAS/STING pathway bolsters p53 for tumor suppression

**13:45–14:15 Tomoo Iwakuma**

P53- and MDM2-independent vulnerability driven by overexpressed MDM4

**14:15–14:45 Vaclav Brazda**

Promoter G-quadruplexes as structure-encoded switches of p53 family protein activity

**14:45–15:15 Yuki Makino**

Significance of p53 Activation in Chronic and Acute Liver Disease Pathogenesis

**15:15–15:30 Walied Kamel (Early Career Presentation)**

Dual Loss of Rb and PHLDA3 Drives an Undifferentiated State in Medullary Thyroid Carcinoma

**15:30–15:45 Coffee Break**

### **Session V – Tumor Microenvironment, Metabolism, and Microbiota**

Chairs: **Chiaki Takahashi / Tomonori Matsumoto**

**15:45–16:15 Chiaki Takahashi**

Targeting RB1-SUCLA2 co-deletion in advanced prostate cancer

**16:15–16:45 Shohei Koyama**

Gut microbiota remodel the tumor immune microenvironment through dendritic cell migration

**16:45–17:15 Haruna Takeda**

Obesity-driven metabolic stress reshapes intestinal tumor evolution

**17:15–17:30 Satoshi Shiba (Early Career Presentation)**

Intestinal Bacteria Involved in the Carcinogenesis of Colorectal Cancer

**17:30–17:40 Closing Remarks**

Rieko Ohki