

APPS2023 Program

Day1 : Thursday November 9

- 12:00 Reception desk open / Poster posting**
- 13:00-13:05 Opening Remarks**
by Nobuo Sanjo (Tokyo Medical and Dental University)
- 13:05-15:05 Symposium 1 (Clinical science 1)**
Classification of sporadic Creutzfeldt-Jakob disease
Chairs: Katsuya Sato (Nagasaki University)
Masaki Takao (National Center Hospital,
National Center of Neurology and Psychiatry)
- 13:05-13:35 1. Sporadic CJD molecular sub-typing: is it still fit for purpose?**
Steven Collins (Department of Medicine (RMH) and The Florey,
The University of Melbourne, Parkville, Australia)
- 13:35-14:05 2. Clinical findings of different types of sCJD**
Hitaru Kishida (Department of Neurology,
Yokohama City University Medical Center)
- 14:05-14:35 3. Reconsidering the pathological classification of sporadic Creutzfeldt–Jakob disease**
Akio Akagi (Aichi Medical University Institute for Medical Science of Aging)
- 14:35-15:05 4. Biochemical findings of different types of sCJD**
Atsushi Kobayashi (Department of Biomedical Models,
Graduate School of Biomedical Sciences, Nagasaki University)
- 15:05-15:45 Symposium :**
Prion disease surveillance system and Food safety
Chair: Yoshifumi Iwamaru (National Institute of Animal Health,
National Agriculture and Food Research Organization)

- 15:05-15:15** **1. Prion disease surveillance system and food safety**
Laura Ellett (Australian National CJD Registry, Florey Department
of Neuroscience and Mental Health, Parkville, Victoria, Australia)
- 15:15-15:25** **2. Creutzfeldt-Jakob Disease (CJD) Surveillance System
in Korea**
Shin in-sook (Korea disease Control and Prevention Agency (KDCA))
- 15:25-15:35** **3. Overview of the Nationwide Surveillance System
for Prion Disease in Japan**
Koki Kosami (Division of Public Health, Center for Community Medicine,
Jichi Medical University)
- 15:35-15:45** **4. Hazard control in the food chain and expectations
for a fundamental solution to BSE**
Makoto Hirano (Zensho Holdings Co., LTD)
- 15:45-16:00** **Break and poster viewing**
- 16:00-16:30** **Keynote lecture 1**
Chair: Hidehiro Mizusawa (National Center of Neurology and Psychiatry)
**Non-experimental prion-like transmission
of non-prion protein amyloidosis**
Masahito Yamada (1 Division of Neurology, Department of Internal Medicine,
Kudanzaka Hospital 2 Department of Neurological
Science, Tokyo Medical and Dental University
3 Kanazawa University, Kanazawa, Japan)
- 16:30-18:30** **Symposium 2 (Basic science 1)**
Chairs: Motomasa Tanaka (RIKEN Center for Brain Science)
Chongsuk Ryou (Hanyang University)
- 16:30-17:00** **1. The seeding ability, transmissibility,
and pathogenicity of mammalian prion**
Jiyan Ma (Chinese Institute for Brain Research (CIBR))

17:00-17:30 2. Tau propagation and its animal model

Masato Hosokawa (1 Faculty of Pharmaceutical Science, Fukuoka University 2 Dementia Research Project, Tokyo Metropolitan Institute of Medical Science)

17:30-18:00 3. Compound-based modulation of prions and prion disease in vitro and in vivo through divergent approaches

Chongsuk Ryou (Department of Pharmacy and Institute of Pharmaceutical Science and Technology, Hanyang University, Ansan, Republic of Korea)

18:00-18:30 4. Structural analysis of amyloid disaggregation process by cryo-EM and FT-IR techniques

Takashi Nomura (RIKEN Center for Brain Science, Japan)

18:30-19:00 Poster abstract

Chair: Nobuo Sanjo (Tokyo Medical and Dental University)

19:00-19:20 Poster review session

19:30-21:30 Evening Reception (Le chic unjour)

Day2 : Friday November 10

8:45-9:15 Keynote lecture 2

Chair: Masahito Yamada

(Kudanzaka Hospital / Tokyo Medical and Dental University / Kanazawa University)

Genetic prion disease in Japan

Nobuo Sanjo (Tokyo Medical and Dental University)

9:15-11:15 Symposium 3 (Clinical science 2)

Preparing for the future clinical trials for prion diseases

Chairs: Tsuyoshi Hamaguchi (Kanazawa Medical University)

Yasushi Iwasaki (Aichi Medical University

Institute for Medical Science of Aging)

9:15-9:45 1. Candidate drugs for treatment of prion diseases

Kenta Teruya (Department of Neurochemistry,

Tohoku University Graduate School of Medicine)

**9:45-10:15 2. Radotinib : Targeting Prion Propagation
and Extending Survival**

Eun-Kyoung Choi (1 Ilsong Institute of Life Science, Hallym University

2 Department of Biomedical Gerontology, Graduate
School of Hallym University)

**10:15-10:45 3. Imaging and neurophysiological findings
for early diagnosis of prion diseases**

Taiki Matsubayashi (Department of Neurology and Neurological Science,

Tokyo Medical and Dental University Graduate School
of Medical and Dental Sciences)

10:45-11:15 4. Research of natural history of prion diseases

Tadashi Tsukamoto (Department of Neurology, National Center Hospital,

National Center of Neurology and Psychiatry)

11:15-11:30 Break and poster viewing

- 11:30-12:30 Symposium 4 (Basic science 2)**
Chairs: Motohiro Horiuchi (Hokkaido University)
Suehiro Sakaguchi (Institute of Advanced Medical Sciences,
Tokushima University)
- 11:30-12:15 1. Structures of Infectious PrP Prions**
Byron Caughey (Rocky Mountain Laboratories, NIAID, NIH, USA)
- 12:15-12:30 2. Demonstration of multiple prion conformers
in natural scrapie isolates by PMCA**
Morikazu Imamura (Faculty of Medicine, Miyazaki University)
- 12:30-13:35 Lunchion seminar**
Chair: Nobuo Sanjo (Tokyo Medical and Dental University)
**Advancements in biomarkers for Parkinson's disease
targeting α -Synuclein**
Taiji Tsunemi (Juntendo University, School of Medicine)
- 13:35-13:50 Basic lecture**
Chair: Eun-Kyoung Choi (Hallym University)
The cellular prion protein in cancer
Victoria A Lawson
(The Department of Microbiology and Immunology, The University of
Melbourne and Peter Doherty Institute for Infection and Immunity,
Melbourne Australia)
- 13:50-14:00 Break and poster viewing**
- 14:00-14:30 Keynote lecture 3**
Chair: Noriyuki Nishida (Nagasaki University)
**DNA and RNA heteroduplex oligo-nucleotides (HDO)
targeting infectious diseases**
Takanori Yokota (The center of TIDE Center
of Tokyo Medical and Dental University)

14:30-14:45 Prizes / awards

Announcement of APPS2024

Chairs: Nobuo Sanjo (Tokyo Medical and Dental University)
Ryuuichirou Atarashi (Miyazaki University)

14:45-15:00 APSPR general assembly

Closing Remarks

by Ryuuichirou Atarashi (Miyazaki University)

Poster Session Lists

Poster No.	Title	First Author (Presenting Author)
P1	Large-Scale Validation of Skin Prion Seeding Activity as a Biomarker for Diagnosis of Prion Diseases	Weiguanliu Zhang
P2	Prophylactic and Therapeutic Efficacy of a Cellulose Ether Compound TC-5RW on Acquired and Spontaneous Prion Diseases in Humanized Transgenic Mice	Zerui Wang
P3	Inhibition of PrP Conversion and Aggregation using Acylthiosemicarbazide Analogues	Jaehyeon Kim
P4	The octapeptide repeat region plays an important role in the pathogenesis of prion disease	Xiangyi Zhang
P5	Radotinib decreases prion propagation and prolongs survival times in models of prion disease	Yeong-Gon Choi
P6	Prolonged survival in scrapie-infected mice by CpG-oligodeoxynucleotide treatment	Mohd Najib Mostafa
P7	Prevention of splenic <i>PrP^{Sc}</i> propagation by polyarginine delays prion disease progression in mice	Sungeun Lee
P8	Using cryo-EM to explore the prion fibril structure and the role of the N-terminal disordered region in protein misfolding	Eric H.-L. Chen
P9	Screening prion protein binders using surface plasmon resonance biosensor as pre-clinical candidates	Mai Hazekawa
P10	Amyloid conformation-dependent disaggregation of α -synuclein amyloid	Yoshiko Nakagawa
P11	Assessment of cognitive function in classical BSE prions infected macaques administrated a low molecular weight chaperone	Fumiko Ono
P12	Elucidation of the mechanism of prion disease progression by comparison of histopathological lesions in transmission of atypical (L-type) BSE prions to cynomolgus macaques before and after the onset of the disease	Takanari Okudaira
P13	Investigation of the effect of the emergence of drug-resistant prion in mice	Hanae Takatsuki
P14	Structure-dependent seeding activity of tau fibrils	Shingo Tamai
P15	Excitatory neurotropism of prion 22L strain	Temuulen Erdenebat
P16	Difference in cellular localization of PrP ^{Sc} in primary neurons and astrocytes	Akio Suzuki
P17	Comparative study of sensitivity and specificity of new diagnostic criteria for sporadic human prion disease	Toshiaki Nonaka
P18	Novel CLEIA assay for total tau protein in cerebrospinal fluid (CSF) of human prion disease patients: evaluation and limitations	Kong Weijie
P19	An attempt to designing cyclic peptides to target 'Hot Spot' of human prion protein as potential therapeutic compounds	Hiroya Tange
P20	Clinical characteristics of patients with V180I genetic Creutzfeldt-Jakob disease	Yasushi Iwasaki