

[Programs of oral presentations]

September 29 (Monday)

8:50~9:10

Opening remarks-1 Tooru Shimosegawa (Sendai)

Opening remarks-2 Hiroyoshi Endo (Japan Intractable Diseases Research Foundation)

9:10~10:30

Biology of CFTR

Chair: Yoshiro Sohma (Tokyo)

1. CF, from the patient to discovery of the basic defect and back

John R Riordan (Chapel Hill)

20 min talk + 10 min discussion

2. Molecular physiology of the CFTR chloride channel

Tzyh-Chang Hwang (Columbia)

20 min talk + 10 min discussion

3. Structure and fluctuation of single CFTR molecules observed by high-speed atomic force microscopy

Yoshiro Sohma (Tokyo)

15 min talk + 5 min discussion

(Coffee break 10 min)

10:40~12:30

Cystic fibrosis in Europeans and Asians

Chair: Claire Wainwright (Herston)

1. Genotype-phenotype correlation in cystic fibrosis

Garry Cutting (Baltimore)

20 min talk + 10 min discussion

2. Cystic fibrosis cases in Korea

Jeong-Ho Kim (Seoul)

20 min talk + 10 min discussion

3. Overview and registry of cystic fibrosis in Japan

Hiroshi Ishiguro (Nagoya)

15 min talk + 5 min discussion

4. CFTR gene mutations and pulmonary manifestations in Japanese patients with cystic fibrosis

Kunihiko Yoshimura (Tokyo)

20 min talk + 10 min discussion

12:30~14:00

Lunch and poster discussion

14:00~15:40

CFTR and HCO_3^- secretion by pancreatic duct Chair: Hiroshi Ishiguro (Nagoya)

1. Regulation and synergism in epithelial fluid and HCO_3^- secretion
Shmuel Muallem (Bethesda) 20 min talk + 10 min discussion
2. HCO_3^- transport by cystic fibrosis pancreatic duct
Akiko Yamamoto (Nagoya) 15 min talk + 5 min discussion
3. Regulation of $\text{HCO}_3^-/\text{Cl}^-$ permeability of CFTR
Min Goo Lee (Seoul) 20 min talk + 10 min discussion
4. ARHGAP9, a GTPase-activating protein, for CDC42/RAC1/RAC2, inhibits CFTR
chloride channel activity through the STAS domain of SLC26 transporters
Shigeru Ko (Tokyo) 15 min talk + 5 min discussion

(Coffee break 10 min)

15:50~17:20

Pathophysiology of CFTR Chair: Steven Rowe (Birmingham)

1. CFTR in reproduction and embryo development
Hsiao Chang Chan (Hong Kong) 20 min talk + 10 min discussion
2. Low-mortality airway-specific β -epithelial sodium channel (βENaC) transgenic mice as a
model of cystic fibrosis lung disease
Tsuyoshi Shuto (Kumamoto) 20 min talk + 10 min discussion
3. CFTR quality control checkpoints as drug target
Tsukasa Okiyoneda (Sanda) 20 min talk + 10 min discussion

September 30 (Tuesday)

8:50~9:50

New therapeutic strategies of cystic fibrosis-1 Chair: Naoto Keicho (Tokyo)

1. Early detection of lung inflammation & infection in cystic fibrosis
Adam Jaffe (Sydney) 20 min talk + 10 min discussion
2. Treatment of early pseudomonas aeruginosa infection in cystic fibrosis
Felix Ratjen (Toronto) 20 min talk + 10 min discussion

(Coffee break 10 min)

10:00~11:30

New therapeutic strategies of cystic fibrosis-2 Chair: Kunihiko Yoshimura (Tokyo)

1. The central role of the neutrophil in cystic fibrosis related lung disease
Noel G McElvaney (Dublin) 20 min talk + 10 min discussion
2. Personalized medicine for the treatment of cystic fibrosis
Allan Powe (San Diego) 20 min talk + 10 min discussion
3. Treatment of the basic CF defect by modulating CFTR: Individualized monitoring and therapeutics
Steven Rowe (Birmingham) 20 min talk + 10 min discussion

(Coffee break 10 min)

11:40~12:40

Management of patients with cystic fibrosis-1 Chair: Toyochiro Kudo (Tokyo)

1. Multidisciplinary care for cystic fibrosis-some of the challenges
Claire Wainwright (Herston) 20 min talk + 10 min discussion
2. Airway clearance physiotherapy for cystic fibrosis
Brenda Button (Pahran) 20 min talk + 10 min discussion

12:40~14:10

Lunch and poster discussion

14:10~15:00

Management of patients with cystic fibrosis-2 Chair: Toshiaki Shimizu (Tokyo)

1. Nutritional management of cystic fibrosis

Julie Matel (Palo Alto) 20 min talk + 10 min discussion

2. Exocrine function and nutritional status of Japanese patients with cystic fibrosis

Kotoyo Fujiki (Nisshin) 15 min talk + 5 min discussion

(Coffee break 10 min)

15:10~16:30

Expression of CFTR in cystic fibrosis Chair: Garry Cutting (Baltimore)

1. Transcriptional networks regulating CFTR gene expression

Ann Harris (Chicago) 20 min talk + 10 min discussion

2. Analysis of CFTR transcripts from nasal swab of Japanese patients with cystic fibrosis

Miyuki Nakakuki (Nagoya) 15 min talk + 5 min discussion

3. Rescue of CFTR mutations with different molecular and cellular defects

Margarida Amaral (Lisbon) 20 min talk + 10 min discussion

(Coffee break 10 min)

16:40~17:40

CFTR-related disorders in Asia Chair: Satoru Naruse (Miyoshi)

1. Comparative analysis of CFTR gene polymorphisms between chronic bronchitis and healthy Chinese population

Muxin Wei (Nanjing) 15 min talk + 5 min discussion

2. Genetics of pancreatitis in Japan

Atsushi Masamune (Sendai) 15 min talk + 5 min discussion

3. CFTR variants in Japanese patients with chronic pancreatitis

Satoru Naruse (Miyoshi) 15 min talk + 5 min discussion

17:40~18:00

Closing remarks-1 Yoshifumi Takeyama (Osaka)

Closing remarks-2 Tooru Shimosegawa (Sendai)