

General Information

Name of the Meeting

The 10th Chronic Kidney Disease Frontier Meeting

Date

February 28 (Sun.), 2021

Meeting Chair

Shoichi Maruyama

Chairman of Advisory Committee of Chronic Kidney Disease Frontier Meeting
Department of Nephrology, Internal Medicine, Nagoya University Graduate
School of Medicine

Secretary General

Tomoki Kosugi

Yoshinari Yasuda

Department of Nephrology / CKD Initiatives, Nagoya University Graduate
School of Medicine

Secretariat

c/o Convention Linkage, Inc.

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Information for Chairpersons and Speakers

You are required to participate in your session to be held on February 28th (Sun.), 2021 using the Zoom web conferencing system. Make sure to join a session at 30 minutes before it starts to confirm Zoom connection.

For Speakers

Presentation Time

Symposium : as informed in advance.

Oral Presentations : Presentation 10min, Discussion 5min

Preparation of Presentation Data

1. All the presentations are required to be made using slide data as in general Zoom meetings.
2. You are recommended to prepare all of your presentation slides in 16:9 wide screen format. Though if you may use slides made in 4:3 format, the slides will not be displayed at full screen size (blank spaces will appear on both sides of the screen).
3. Please include the title of the presentation and your name, affiliation and other information on the first slide, and conclusion on the last slide.
4. When preparing slides, you are recommended to use the Windows OS, Microsoft PowerPoint 2010/2013/2016/2019 and the standard Windows fonts shown below.
Japanese fonts: MS Gothic, MSP Gothic, MS Mincho, MSP Mincho, Meiryo
English fonts: Times New Roman, Arial, Arial Black, Arial Narrow, Century, Century Gothic, Courier New, Georgia
5. The file name should be a combination of your session type and your name.
(Example: Symposium1 TaroSuzuki.pptx)
6. Please keep the data size of slides to a minimum to ensure smooth streaming on Zoom.
7. Before starting your presentation, please connect the AC adaptor of your PC and turn off any screen saver and energy saver. (If you use a Macintosh, turn off the hot corner on the screen.)

Presentation Language and Data

All presentations must be in English and all presentation data should be prepared in English.

Program at a glance

	Track 1	Track 2
9:00	9:00-9:05 Opening Remarks	
10:00	Symposium “Onco-nephrology” 9:05-9:45 Mini-Lecture Sponsored by Chugai Pharmaceutical Co., Ltd. Chair: Motoko Yanagita Mini-Lecture1: Hiroaki Kajiyama Mini-Lecture2: Takashige Kuwabara 9:45-10:30 Special Lecture Chair: Shoichi Maruyama Speaker: Kenar D Jhaveri 10:30-10:50 Discussion/Q&A	
11:00	10:50-11:50 Oral Presentations < Basic 1 > Chairs: Takaaki Abe, Yusuke Suzuki B-1-01 ~ 04	10:50-11:50 Oral Presentations < Clinical 1 > Chairs: Hitoshi Sugiyama, Kunihiro Yamagata C-1-01 ~ 04
12:00	11:50-12:50 Oral Presentations < Basic 2 > Chairs: Ichiei Narita, Akira Nishiyama B-2-01 ~ 04	11:50-12:50 Oral Presentations < Clinical 2 > Chairs: Hitoshi Yokoyama, Takashi Wada C-2-01 ~ 04
13:00	Break	Break
14:00	13:00-13:50 Sponsored Seminar 1 Sponsored by Kyowa Kirin Co., Ltd. Chair: Masaomi Nangaku Speakers: SS1-1 Terumasa Hayashi SS1-2 Sho Hasegawa, SS1-3 Yukako Akiyama	13:00-13:50 Sponsored Seminar 2 Sponsored by Sumitomo Dainippon Pharma Co., Ltd. Chair: Naoki Kashihara Speakers: SS2-1 Yoshinari Yasuda SS2-2 Yoshihisa Wada, SS2-3 Toshiaki Usui
	13:50-14:00 Closing Remarks	

Program

■ Track 1

9:00–9:05 **Opening Remarks**

■ Track 1

9:05–10:50 **Symposium**
“Onco-Nephrology”

Mini-Lecture

Sponsored by Chugai Pharmaceutical Co., Ltd.

Chair : Motoko Yanagita (*Department of Nephrology, Graduate School of Medicine, Kyoto University, Kyoto, Japan*)

SY1-01 Anti-angiogenetic strategy against epithelial ovarian carcinoma aiming for the appropriate management of kidney injury

Hiroaki Kajiyama

Department of Obstetrics and Gynecology, Nagoya University Graduate School of Medicine, Aichi, Japan

SY1-02 Renal complications of immune checkpoint inhibitors

Takashige Kuwabara, Teruhiko Mizumoto, Masataka Adachi, Masashi Mukoyama

Department of Nephrology, Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan

Special Lecture

Chair : Shoichi Maruyama (*Department of Nephrology, Internal Medicine, Nagoya University Graduate School of Medicine, Japan*)

SL-1 Onconephrology
- Cancer, Cancer therapy and the Kidney -

Kenar D Jhaveri

Division of Kidney Diseases and Hypertension, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, NY, U.S.A

Discussions/Q&A

Commentators : Chih-Kang Chiang (*Graduate Institute of Toxicology, College of Medicine, National Taiwan University, Taipei, Taiwan/Department of Integrated Diagnostics and Therapeutics, National Taiwan University, Taipei, Taiwan*)

Martin Lee (*Division of Nephrology, National University Hospital, Singapore*)

Kearkiat Praditpornsilpa (*Faculty of Medicine, Chulalongkorn University, Thailand*)

Beom Seok Kim (*Nephrology, Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea*)

■ Track 1

10:50–11:50 Oral Presentations

“Basic 1”

Chairs : Takaaki Abe (*Tohoku University Graduate School of Biomedical Engineering, Tohoku University Graduate School of Medicine, Miyagi, Japan*)

Yusuke Suzuki (*Department of Nephrology, Juntendo University, Faculty of Medicine, Tokyo, Japan*)

B-1-01 Double-strand DNA (dsDNA) damage in human glomerular endothelial cells induces collagen type VI secretion via an ATR and ANXA2 pathway

Ai Fujii¹, Yumi Sunatani², Kengo Furuichi¹, Keishi Fujimoto¹, Hiroki Adachi¹, Kuniyoshi Iwabuchi², Hitoshi Yokoyama¹

¹*Kanazawa Medical University School of Medicine, Department of Nephrology, Kahokugun, Ishikawa, Japan,*

²*Kanazawa Medical University School of Medicine, Department of Biochemistry, Kahokugun, Ishikawa, Japan*

B-1-02 In vivo analysis of glucose uptake in proximal tubules under a SGLT2 inhibitor treatment

Anqi Zhang, Daisuke Nakano, Akira Nishiyama

Department of Pharmacology, Kagawa University, Kagawa, Japan

B-1-03 Intestinal bacterial translocation contributes to diabetic nephropathy

Hoang Thuy Linh¹, Yasunori Iwata^{1,2}, Takashi Wada¹

¹*Department of Nephrology and Laboratory Medicine, Kanazawa University, Ishikawa, Japan,*

²*Division of Infection Control, Kanazawa University, Ishikawa, Japan*

B-1-04 p300/CBP associated factor (PCAF) modulates HIF-1 activity in multiple ways

Yu Kurata, Masaomi Nangaku, Tetsuhiro Tanaka

Division of Nephrology and Endocrinology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan

■ Track 2

10:50–11:50 Oral Presentations

“Clinical 1”

Chairs : Hitoshi Sugiyama (*Department of Human Resource Development of Dialysis Therapy for Kidney Disease, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan*)

Kunihiro Yamagata (*Department of Nephrology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan*)

C-1-01 The Effect of Kasuya CKD network on The Prevention of Progression of Chronic Kidney Disease: Successful Collaboration of a Public Health Service, Primary Care Physicians and Nephrologists; Population Based Cohort Study

Ritsuko Katafuchi^{1,10}, Shigeru Tanaka², Takayuki Matsuo^{3,10}, Osamu Tamai^{4,10}, Kazuhiro Yoshimine^{5,10}, Kazutoshi Yano^{6,10}, Kiiitrou Ueno^{7,10}, Naoya Shimohashi^{8,10}, Toshiharu Ninomiya⁹, Kasuya Chronic Kidney Disease Committee¹⁰

¹*Kidney Unit, National Hospital Organization Fukuoka Higashi Medical Center, Fukuoka, Japan,*

²*Department of Medicine and Clinical Science, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan,*

³*Matsuo Clinic, Fukuoka, Japan,*

⁴*Kasuya minami hospital, Fukuoka, Japan,*

⁵*Department of Nephrology and Dialysis, Ueno Jinn-touseki Clinic, Fukuoka, Japan,*

⁶*Yano Clinic, Fukuoka, Japan,*

⁷*Department of Surgery and Digestive Disease, Ueno Hospital, Fukuoka, Japan,*

⁸*Shimohashi naika clinic, Fukuoka, Japan,*

⁹*Departments of Epidemiology and Public Health, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan,*

¹⁰*Kasuya Chronic Kidney Disease Committee: Public Health Service Members are Health Promotion Division, Kasuya Office for Health and Human Services; Public Health and Welfare Services Division, Koga City Hall; Health and Welfare Division, Umi Town Hall; Health Division, Sasaguri Town Office; Health Service Division, Shime Town Office; Health Promotion Division, Sue Town Hall; Health and Welfare Division, Shingu Town Office and Health Promotion Division, Kasuya Town Office, Japan*

C-1-02 Development and initial analysis of a nationwide multicenter electronic health record-based chronic kidney disease database in Japan (J-CKD-DB)

Naoki Nakagawa¹, Tadashi Sofue², Eiichiro Kanda³, Hajime Nagasu³,
Kunihiro Matsushita⁴, Masaomi Nangaku⁵, Shoichi Maruyama⁶, Takashi Wada⁷,
Yoshio Terada⁸, Kunihiro Yamagata⁹, Ichiei Narita¹⁰, Motoko Yanagita¹¹,
Hitoshi Sugiyama¹², Takashi Shigematsu¹³, Takafumi Ito¹⁴, Kouichi Tamura¹⁵,
Yoshitaka Isaka¹⁶, Hirokazu Okada¹⁷, Kazuhiko Tsuruya^{18,19}, Hitoshi Yokoyama²⁰,
Naoki Nakashima¹⁸, Hiromi Kataoka²¹, Kazuhiko Ohe⁵, Mihoko Okada²²,
Naoki Kashihara³

¹*Asahikawa Medical University, Hokkaido, Japan,*

²*Kagawa University, Kagawa, Japan,*

³*Kawasaki Medical School, Okayama, Japan,*

⁴*Johns Hopkins Bloomberg School of Public Health, Baltimore, USA,*

⁵*University of Tokyo Graduate School of Medicine, Tokyo, Japan,*

⁶*Nagoya University Graduate School of Medicine, Aichi, Japan,*

⁷*Kanazawa University, Ishikawa, Japan,*

⁸*Kochi Medical School, Kochi, Japan,*

⁹*University of Tsukuba, Ibaraki, Japan,*

¹⁰*Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan,*

¹¹*Kyoto University, Kyoto, Japan,*

¹²*Okayama University Graduate School of Medicine, Okayama, Japan,*

¹³*Wakayama Medical University, Wakayama, Japan,*

¹⁴*Shimane University, Shimane, Japan,*

¹⁵*Yokohama City University Graduate School of Medicine, Kanagawa, Japan,*

¹⁶*Osaka University Graduate School of Medicine, Osaka, Japan,*

¹⁷*Saitama Medical University, Saitama, Japan,*

¹⁸*Kyushu University, Fukuoka, Japan,*

¹⁹*Nara Medical University, Nara, Japan,*

²⁰*Kanazawa Medical University School of Medicine, Ishikawa, Japan,*

²¹*Kawasaki University of Medical Welfare, Okayama, Japan,*

²²*Institute of Health Data Infrastructure for All*

C-1-03 Development and Clinical Evaluation of Machine Learning Models for Predicting Acute Kidney Injury Onset

Eiichiro Uchino^{1,2}, Minoru Sakuragi^{1,2}, Noriaki Sato^{1,2}, Yasushi Okuno¹,
Motoko Yanagita²

¹*Department of Biomedical Data Intelligence, Graduate School of Medicine, Kyoto University, Kyoto, Japan,*

²*Department of Nephrology, Graduate School of Medicine, Kyoto University, Kyoto, Japan*

C-1-04 Predictors of Survival in Chronic Hemodialysis Patients: A 10-Year Longitudinal Follow-up Analysis

Takuhiro Moromizato¹, Kentaro Kohagura^{2,10}, Kiyoyuki Tokuyama^{3,10},
Yoshiki Shiohira^{4,10}, Shigeki Toma^{5,10}, Hajime Uehara^{6,10}, Hisatomi Arima^{7,10},
Shinichiro Ueda^{8,10}, Kunitoshi Iseki^{9,10}

¹Renal and Rheumatology Division, Internal Medicine Department, Okinawa Nanbu Prefectural Medical Center and Children's Medical Center, Shimajiri, Okinawa, Japan.

²Renal Division and Blood Purification Center, University of the Ryukyus, Nishihara, Okinawa, Japan.

³Tokuyama Clinic, Urasoe, Okinawa, Japan.

⁴Renal and Rheumatology Division, Internal Medicine Department, Tomishiro Central Hospital, Tomishiro, Okinawa, Japan.

⁵Toma Clinic, Nishihara, Okinawa, Japan.

⁶Blood Purification Center, Okinawa Prefectural Chubu Hospital, Okinawa, Japan.

⁷Department of preventive medicine and public health, Fukuoka University, Fukuoka, Fukuoka, Japan.

⁸Clinical Pharmacology Division, University of the Ryukyus, Nishihara, Okinawa, Japan.

⁹Clinical Research Support Center, Nakamura Clinic, Urasoe, Okinawa, Japan.

¹⁰OCTOPUS Group, Okinawa Dialysis and Transplant Association, Okinawa, Japan

Track 1

11:50–12:50 Oral Presentations

“Basic 2”

Chairs : Ichiei Narita (Division of Clinical Nephrology and Rheumatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan)

Akira Nishiyama (Department of Pharmacology, Faculty of Medicine, Kagawa University, Kagawa, Japan)

B-2-01 Inhibition of chemokine receptor CCR10 ameliorates renal damage by modulating gut-kidney axis

Mariko Ichijo, Kujirai Ryota, Koichi Kikuchi, Hsin-Jung Ho, Yukako Akiyama, Chitose Suzuki, Shun Watanabe, Takehiro Suzuki, Eikan Mishima, Yasutoshi Akiyama, Takafumi Toyohara, Yoshiaki Ogata, Yotaro Matsumoto, Wakako Ikeda-Ohtsubo, Daisuke Saigusa, Haruki Kitazawa, Yoshihisa Tomioka, Takaaki Abe

Tohoku University Graduate School of Medicine, Sendai, Japan.

B-2-02 Effect of GSKJ4, histone demethylase inhibitor, on renal fibrosis

Dai Sato, Imari Mimura, Masaomi Nangaku

Division of nephrology and endocrinology, the university of Tokyo, Tokyo, Japan

B-2-03 Sparsentan (The dual Endothelin and Angiotensin 1 receptor blocker) protects against the development of renal injury in IgA nephropathy model mice.

Hajime Nagasawa¹, Hitoshi Suzuki¹, Celia Jenkinson², Seiji Ueda¹, Yusuke Fukao¹, Maiko Nakayama¹, Tomoyuki Otsuka¹, Kai Liu², Radko Komers², Yusuke Suzuki¹

¹Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan.

²Traverse Therapeutics, Inc., San Diego, CA, U.S.A

B-2-04 Inhibition of hypoxia-inducible factor hydroxylase in proximal tubules attenuates renal ischemia-reperfusion injury

Midori Sakashita, Mai Sugahara, Masaomi Nangaku, Tetsuhiro Tanaka

Division of Nephrology and Endocrinology, The University of Tokyo, Tokyo, Japan

■ Track 2

11:50–12:50 Oral Presentations

“Clinical 2”

Chairs : Takashi Wada (*Department of Nephrology Laboratory Medicine Kanazawa University, Ishikawa, Japan*)

Hitoshi Yokoyama (*Kanazawa Medical University, School of Medicine, Department of Nephrology, Ishikawa, Japan*)

C-2-01 “I dislike vegetables” is a predictor of proteinuria: a retrospective cohort study

Shingo Ozaki¹, Ryohei Yamamoto^{1,2,3}, Maki Shinzawa¹, Yoshiki Kimura^{1,4},
Yoshiyuki Fujii¹, Katsunori Aoki^{1,5}, Ryohei Tomi¹, Ryuichi Yoshimura^{1,2,3},
Manabu Taneike², Kaori Nakanishi², Makoto Nishida², Keiko Yamauchi-Takahara²,
Takashi Kudo², Yoshitaka Isaka¹, Toshiki Moriyama^{1,2,3}

¹Department of Nephrology, Graduate School of Medicine, Osaka University, Suita, Japan,

²Health and Counseling Center, Osaka University, Toyonaka, Japan,

³Health Promotion and Regulation, Department of Health Promotion Medicine, Osaka University Graduate School of Medicine, Toyonaka, Japan,

⁴Department of Nephrology, National Hospital Organization Osaka National Hospital, Osaka, Japan,

⁵Department of Nephrology, Japan Community Health Care Organization Osaka Hospital, Osaka, Japan

C-2-02 The Effect of CKD on Associations between Lifestyle Factors and All-cause, Cancer, and Cardiovascular Mortality: A Population-based Cohort Study

Minako Wakasugi¹, Ichiei Narita², Kunitoshi Iseki², Koichi Asahi²,
Kunihiro Yamagata², Shouichi Fujimoto², Toshiki Moriyama², Tsuneo Konta²,
Kazuhiko Tsuruya², Masato Kasahara², Yugo Shibagaki², Masahide Kondo²,
Tsuyoshi Watanabe²

¹Department of Inter-Organ Communication Research, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan,

²Steering Committee of Research on Design of the Comprehensive Health Care System for Chronic Kidney Disease (CKD) Based on the Individual Risk Assessment by Specific Health Check, Fukushima, Japan

C-2-03 HIF Prolyl Hydroxylase Inhibition Improves Exercise Endurance Capacity in Healthy and CKD Mice through Distinctive Mechanism

Koji Takemura, Hiroshi Nishi, Takaaki Higashihara, Masaomi Nangaku

Division of Nephrology and Endocrinology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan

C-2-04 Association between cystatin C-based eGFR and grip strength in community-dwelling Japanese older adults

Keiko Kabasawa^{1,3}, Kazutoshi Nakamura², Yumi Ito^{1,3}, Junta Tanaka¹, Ichiei Narita^{1,3}

¹Department of Health Promotion Medicine, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan,

²Division of Preventive Medicine, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan,

³Division of Clinical Nephrology and Rheumatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

■ Track 1

13:00-13:50 **Sponsored Seminar 1**

Sponsored by Kyowa Kirin Co., Ltd.

Chair : Masaomi Nangaku (*Division of Nephrology and Endocrinology, University of Tokyo Graduate School of Medicine, Tokyo, Japan*)

SSI-1 A new evidence from Japan, the PREDICT trial: Darbepoetin Alfa in Patients with Advanced Chronic Kidney Disease Without Diabetes

Terumasa Hayashi

Osaka General Medical Center, Osaka, Japan

SSI-2 Activation of sympathetic signaling in macrophages blocks systemic inflammation and protects against renal ischemia/reperfusion injury

Sho Hasegawa¹, Tsuyoshi Inoue², Masaomi Nangaku¹, Reiko Inagi¹

¹*The University of Tokyo, Tokyo, Japan,*

²*Nagasaki University, Nagasaki, Japan*

SSI-3 Modulation of bile acid and gut microbiota ameliorates renal function in adenine-induced renal failure.

Yukako Akiyama, Masamitsu Maekawa, Koichi Kikuchi, Hsin-Jung Ho, Mariko Ichijo, Ryota Kujirai, Daisuke Saigusa, Chitose Suzuki, Shun Watanabe, Eikan Mishima, Yasutoshi Akiyama, Takafumi Toyohara, Takehiro Suzuki, Yoshiaki Ogata, Yotaro Matsumoto, Nariyasu Mano, Yoshihisa Tomioka, Takaaki Abe

Tohoku University, Miyagi, Japan.

■ Track 2

13:00-13:50 **Sponsored Seminar 2**

Sponsored by Sumitomo Dainippon Pharma Co., Ltd

Chair : Naoki Kashihara (*Department of Nephrology and Hypertension, Kawasaki Medical School, Okayama, Japan*)

SS2-1 Overview of national policy to prevent aggravation of diabetic nephropathy in Japan: Importance of safety prescription of metformin for patients with renal impairment

Yoshinari Yasuda

Department of Nephrology/CKD Initiatives, Nagoya University Graduate School of Medicine, Aichi, Japan

SS2-2 Evaluation of glomerular hemodynamic changes by SGLT2 inhibitor and ARB in type 2 diabetic rats using in vivo imaging

Yoshihisa Wada, Kengo Kidokoro, Reina Umeno, Atsuyuki Tokuyama, Megumi Kondo, Hiroyuki Kadoya, Hajime Nagasu, Tamaki Sasaki, Naoki Kashihara
Department of Nephrology and Hypertension, Kawasaki Medical School, Kurashiki, Okayama, Japan

SS2-3 Analysis of the disease-model mouse for MCTO nephropathy

Toshiaki Usui¹, Naoki Morito¹, Yuki Tsunakawa², Jeon Hyojung³, Michito Hamada²,
Seiya Mizuno³, Satoru Takahashi², Kunihiro Yamagata¹

¹*Department of Nephrology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan.*

²*Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan.*

³*Transborder Medical Research Center, University of Tsukuba, Ibaraki, Japan*