

## Meeting Scedule

# International Meeting on RECQ Helicases and Related Diseases 2018

Friday 16 - Sunday 18 February 2018, Kazusa Akademia Hall, Chiba, JAPAN

<b>Day1 Feb 16<sup>th</sup> (Fri)</b>	
12:30-12:40	<b>Opening Remarks</b> Koutaro Yokote (Chiba University, Chiba, Japan)
12:40-13:30	<b>Plenary Lecture 1</b> Chair: Koutaro Yokote (Chiba University, Chiba, Japan) The Werner Syndrome: Past, Present & Future George M. Martin (University of Washington, Seattle, USA)
	<b>Session 1 Clinical Features and Genetics of Werner Syndrome</b> Chairs: Raymond J. Monnat (University of Washington, Seattle, USA) Seihiro Mori (Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Tokyo, Japan)
13:30-14:00	Lessons from Werner syndrome :A biased view from a rheumatologist Makoto Goto (Nerima Hikarigaoka Hospital, Tokyo, Japan)
14:00-14:30	Genomic clues to Werner syndrome disease pathogenesis and cancer risk Raymond J. Monnat (University of Washington, Seattle, USA)
14:30-15:00	International Registry of Werner Syndrome: Search for progeroid syndrome mutations and mechanisms Junko Oshima (University of Washington, Seattle, USA)
	<b>Session 2 Bloom Syndrome and Stem Cell Aging in Skin</b> Chairs: Nathan A. Ellis (University of Arizona, Tucson, USA) Seiichiro Motegi (Gunma University, Maebashi, Japan)
15:10-15:40	NSMCE2 is required for the generation of sister chromatid exchanges at collapsed replication forks Nathan A. Ellis (University of Arizona, Tucson, USA)
15:40-16:10	Altered Nucleolar Trafficking of the Blm Helicase in the Mouse Reduces Size, Increases Tumor Susceptibility and Genome Instability, and Facilitates Aging Joanna L. Groden (The Ohio State University, Columbus, USA)
16:10-16:40	Stem cells orchestrate hair follicle aging program Emi Nishimura (Tokyo Medical and Dental University, Tokyo, Japan)
	<b>Patients and Families Session</b> Chairs: Joanna L. Groden (The Ohio State University, Columbus, USA) Yoshiro Maezawa (Chiba University, Chiba, Japan)
16:40-17:00	From Werner syndrome patient group
17:00-17:15	From Cockayne syndrome patient group
17:15-17:35	From Rothmund-Thomson syndrome patient group
17:40-19:10:	<b>Poster Session</b>
<b>Welcome Reception at Hotel Okura</b>	

## Day2 Feb 17<sup>th</sup> (Sat)

<p>08:30-09:20 <b>Plenary Lecture 2</b></p> <p>Chair: Hironori Nakagami (Osaka University, Osaka, Japan)</p> <p>Werner syndrome: mechanisms and intervention Vilhelm A. Bohr (National Institute of Aging, Bethesda, USA)</p>	
<p align="center"><b>Session 3 Travel Award Presentations and Mini Presentations of Poster Presenters</b></p> <p>Chairs: Junko Oshima (University of Washington, Seattle, USA) Minoru Takemoto (International University of Health and Welfare, Narita, Japan)</p>	
<p>09:20-11:20 Travel Awardees and All the Poster Presenters</p>	<p><b>Room B</b></p>
<p>11:30-12:20 <b>Luncheon Seminar (Sponsored by Novo nordisk Pharma Limited)</b></p> <p>Chair: Shigeki Kuzuhara (Suzuka University of Medical Science, Suzuka, Japan)</p> <p>Werner Syndrome Research in Japan: For the Patient and Aging Science Koutaro Yokote (Chiba University, Chiba, Japan)</p>	<p align="center"><b>Patients and Families Meeting (in Japanese)</b></p> <p>Chairs: Kazuki Kobayashi (Asahi General Hospital, Chiba, Japan) Kinue Kuzuta (Chiba University, Chiba, Japan)</p> <p>09:20-11:20 From Patient group of Werner, Cockayne, Rothmund-Thomson syndromes, Researchers and Doctors</p>
<p><b>Session 4 Rothmund-Thomson Syndrome, Mitochondrial Dysfunction and Aging</b></p> <p>Chairs: Lisa L. Wang (Texas Children's Hospital, Baylor College of Medicine, Houston, USA) Hideo Kaneko (Nagara Medical Center, Gifu, Japan)</p> <p>12:30-13:00 Update on Clinical Studies of Rothmund-Thomson Syndrome and RECQL4 Disorders Lisa L. Wang (Texas Children's Hospital, Baylor College of Medicine, Houston, USA)</p> <p>13:00-13:30 Role of RECQL4 in genome maintenance Deborah L. Croteau (National Institute on Aging, Bethesda, USA)</p> <p>13:30-14:00 Mitol dependent ubiquitylation of RECQL4 prevents its function as an accessory factor for mitochondrial DNA replication Sagar Sengupta (National Institute of Immunology, New Delhi, India)</p> <p>14:00-14:30 Roles of mitochondrial ubiquitin ligase MITOL in mitochondrial dynamics and aging-related diseases Shigeru Yanagi (Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan)</p>	<p align="center"><b>Problem Oriented Sessions for Patients (in Japanese)</b></p> <p>Chair: Kazuki Kobayashi (Asahi General Hospital, Chiba, Japan)</p> <p>13:00-13:20 Diabetes mellitus and metabolic syndrome Yoshiro Maezawa (Chiba University, Chiba, Japan)</p> <p>13:20-13:40 Skin ulcer and its prevention Seiichiro Motegi (Gunma University, Maebashi, Japan)</p> <p>13:40- Good shoes for your health Meister Karsten Rieche (Nature's Walk, Chiba, Japan)</p>

14:30-15:20	<b>Plenary Lecture 3</b>
<p>Chair: Yasuhiro Furuichi (GeneCare Research Institute, Kamakura, Japan)</p> <p>Genome-Wide promotome and enhancerome analysis based on CAGE technology and its application to the identification of cancer biomarkers</p> <p>Yoshihide Hayashizaki (Riken, Wako, Japan)</p>	
<p><b>Session 5 Aging related Diseases and Hutchinson Gilford Progeria Syndrome (Co-sponsored by Daiichi Sankyo Company, Limited)</b></p>	
<p>Chairs: Vilhelm A. Bohr (National Institute of Aging, Bethesda, USA) Kenji Ihara (Oita University, Oita, Japan)</p>	
15:40-16:10	<p>Mitotic death of cancer cells by gene silencing of RECQ helicases: a preferential sensitivity of ovarian cancer cells to RECQL1-siRNA Yasuhiro Furuichi (GeneCare Research Institute, Kamakura, Japan)</p>
16:10-16:40	<p>Role of Akt in skeletal muscle in anti-aging Kohjiro Ueki (Tokyo University and National Center for Global Health and Medicine, Tokyo, Japan)</p>
16:40-17:10	<p>Immunometabolic regulation of cardiac homeostasis and heart failure in aging Ichiro Manabe (Chiba University, Chiba, Japan)</p>
17:10-17:40	<p>The clinical characteristics of Asian patients with classical-type Hutchinson-Gilford progeria syndrome Kenji Ihara (Oita University, Oita, Japan)</p>
17:40-18:30	<p><b>Special Lecture:</b> Programs and Progress towards Treatments and The Cure For Children with Progeria Leslie B. Gordon (Brown University, Providence, USA)</p>
<b>Photo Session</b>	
<b>Dinner at Takaraya</b>	

## Day3 Feb 18<sup>th</sup> (Sun)

### 08:00-08:50 **Morning Seminar (Sponsored by MSD K.K.)**

Chair: Yoichi Nabeshima (Foundation for Biomedical Research and Innovation, Kobe, Japan)

Roles and mechanisms of cellular senescence in aging and cancer

Eiji Hara (Osaka University, Cancer Institute, Osaka and Tokyo, Japan)

### 09:00-09:50 **Plenary Lecture 4**

Chair: Katsuo Sugita (Chiba University, Chiba, Japan)

Genome maintenance protects from aging and cancer: the impact of nutrition

Jan H. J. Hoeijmakers (Erasmus University, Rotterdam, Netherland)

### **Session 6 Xeroderma Pigmentosa and Cockayne syndrome**

Chairs: Chikako Nishigori (Kobe University, Kobe, Japan)

Jan H. J. Hoeijmakers (Erasmus University, Rotterdam, Netherland)

09:50-10:20 Coordinated DNA damage recognition by xeroderma pigmentosum gene products  
Kaoru Sugasawa (Kobe University, Kobe, Japan)

10:20-10:50 The present status of Xeroderma pigmentosum in Japan-evaluation of symptoms by severity scale score  
Chikako Nishigori (Kobe University, Kobe, Japan)

10:50-11:20 Very mild Japanese Cockayne syndrome (type-IV) cases with a N-terminal truncation mutation in the ERCC6 / CSB gene  
Tomoo Ogi (Nagoya University, Nagoya, Japan)

### **Session 7 Can iPS cells be Future Therapeutics?**

Chairs: Koji Eto

(Center for iPS Cell Research and Application, Kyoto and Chiba University, Chiba, Japan)

Guanghui Liu (Institute of Biophysics, Chinese Academy of Science, Beijing, China)

11:30-12:00 Using stem cell and gene editing techniques to study and treat aging-associated disorders  
Guanghui Liu (Institute of Biophysics, Chinese Academy of Science, Beijing, China)

12:00-12:30 In vitro modeling of bilateral progressive hearing loss with human iPSC technology:  
Cellular pathology and drug discovery  
Masato Fujioka (Keio University, Tokyo, Japan)

12:30-13:00 Patient-specific iPS cells for neural disease modeling and drug screening  
Wado Akamatsu (Juntendo University, Tokyo, Japan)

### 13:00-13:10 **Closing Remarks**

Koutaro Yokote (Chiba University, Chiba, Japan)