## SCIENTIFIC PROGRAM THURSDAY APRIL 12<sup>th</sup>, 2018

<table>
<thead>
<tr>
<th>TIME</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>08:30-08:50</td>
<td>Registration</td>
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<tr>
<td>08:50-09:00</td>
<td>Introduction and Welcome to Kyoto University</td>
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<td>Yoichiro Kamatani, Kyoto (Japan)</td>
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<td>09:00-09:10</td>
<td>Brief introduction to ISGC</td>
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<td>Stéphanie Debette, Bordeaux (France)</td>
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<tr>
<td>09:10-11:10</td>
<td>SESSION 1</td>
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<td>09:10-09:55</td>
<td><strong>WG1: Intracerebral hemorrhage genomics</strong></td>
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<td><em>Moderators: Jonathan Rosand, Boston (USA) and Dan Woo, Cincinnati (USA)</em></td>
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<td></td>
<td>- Robin Walters, Oxford (UK): Kadoorie biobank ICH GWAS (12+3’)</td>
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<td>- Dan Woo, Cincinnati (USA): Next round of ICH GWAS (12+3’)</td>
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<td>- Jonathan Rosand, Boston (USA): ERICH Gene (12+3’)</td>
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<td>09:55-10:35</td>
<td><strong>WG2: Intracranial aneurysm genomics</strong></td>
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<td><em>Moderators: Ynte Ruigrok, Utrecht (The Netherlands) and Philippe Bijlenga, Geneva (Switzerland)</em></td>
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<td>- Philippe Bijlenga, Geneva (Switzerland): Phenotypic profile of the intracranial aneurysm GWAS cohort (12+3’)</td>
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<td>- Ynte Ruigrok, Utrecht (the Netherlands): Update on the current projects of the intracranial aneurysm working group (8+2’)</td>
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<td>- Brad Worrall, Charlottesville (USA) / Newcastle (Australia): Update on the NIH grant application to GWAS additional aneurysm samples (5’)</td>
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<td>- Hirohumi Nakatomi, Tokyo (Japan): Japanese Aneurysm collaboration (8+2’)</td>
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<td>10:35-11:10</td>
<td><strong>Invited speaker 1</strong></td>
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<td><em>Moderator: Yoichiro Kamatani, Kyoto (Japan)</em></td>
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<td>- Yukinori Okada, Osaka (Japan): Use of complex disease genomics for drug discovery and repositioning, lessons learned from Rheumatoid arthritis</td>
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<td>11:10-11:40</td>
<td><strong>BREAK</strong></td>
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23rd WORKSHOP OF THE INTERNATIONAL STROKE GENETICS CONSORTIUM

April 12-13, 2018

*International Science Innovation Building, Kyoto University, Kyoto, Japan*

Hosted by Yoichiro Kamatani

Co-hosted by Paul Nyquist and John Cole
11:40-13:00  SESSION 2

11:40-12:25  WG3: Translational working group
**Moderators: Guillaume Paré, Hamilton (Canada) and Patty Musolino, Boston (USA)**
- Guillaume Paré, Hamilton (Canada): Pharmacogenomics and stroke: getting up close and personal (12+3’)
- Myriam Fornage, Houston (USA): Metabolomics Profiling & Stroke in the ARIC Study (12+3’)
- Patty Musolino, Boston (USA): Impact of single genes upon brain microvascular function: from bedside to bench and back (12+3’)

12:25-13:00  Invited speaker 2
**Moderator: Stéphanie Debette, Bordeaux (France)**
- Masafumi Ihara, Osaka (Japan): Experimental models for cerebral small vessel disease

13:00-14:30  LUNCH, PHOTO + visit of Yoshida Shrine

14:30-15:45  SESSION 3

14:30-15:15  WG4: Genomics of stroke outcomes
**Moderators: Jane Maguire, Sydney (Australia) and Arne Lindgren, Lund (Sweden)**
- Jane Maguire, Sydney (Australia): Introduction (5’)
- Erik Lorentzen, Gothenburg (Sweden): Genome-wide association study and meta-analysis of functional outcome after ischemic stroke (8+2’)
- John Cole, Baltimore (USA): Genetic imbalance affects functional outcome after stroke (8+2’)
- Jordi Jimenez-Conde/Israel Fernandez-Cadenas, Barcelona (Spain): GODS update (8+2’)
- Arne Lindgren, Lund (Sweden): Prospective study on stroke outcome (8+2’)

15:15-15:45  Young stroke genetics initiatives
- Steven Kittner, Baltimore (USA): Early-Onset Ischemic Stroke GWAS and Exome Array Consortium (8+2’)
- Brackie Mitchell, Baltimore (USA): Early-Onset Ischemic Stroke Exome Sequencing Consortium (8+2’)
- Patty Musolino, Boston (USA): Young Hereditary Cerebrovascular Alliance (8+2’)

15:45-16:15  BREAK

16:15-17:30  SESSION 4

16:15-17:00  WG5: Stroke imaging genomics
**Moderator: Markus Schirmer, Boston**
- Arne Lindgren, Lund (Sweden): Posterior Circulation Genetics Project Update (8+2’)

With the support of the Fondation Franco-Japonaise Sasakawa
- Vincent Thijs, Melbourne (Australia): Dolichoectasia Project Update (8+2’)
- Hui Xu, Boston (USA): Improving genomic coverage of SiGN and MRI-GENIE subjects with re-imputation using HRC reference genome (8+2’)
- Markus Schirmer, Boston (USA): MRI-GENIE Study Update (12+3’)

17:00-17:40 **ISGC Outreach Committee**  
**Moderators: Jenny Majersik, Salt Lake City (USA) and John Cole, Baltimore (USA)**  
- Jenny Majersik, Salt Lake City (USA): outreach committee update (8+2’)
- Wei Li, Beijing (China): CNSR3(China national stroke registry 3), Genes are in Action (8+2’)
- Jong-Won Chung, Seoul (South Korea): Profiles and Interests of Samsung Medical Center Stroke Research (8+2’)
- Yicheng Zhu, Beijing (China): Population-based Shunyi Study (8+2’)

19:00 **DINNER Fortune Garden Kyoto**

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**SCIENTIFIC PROGRAM FRIDAY APRIL 13th**

08:45-10:15 **SESSION 5**

08:45-09:45 **Short talks session**  
**Moderators: Paul Nyquist, Baltimore (USA) and John Cole, Baltimore (USA)**  
- Tai-Ming Ko, Taipeh (Taiwan): Genome-wide association studies for subtypes of stroke in a Han Chinese population (7+3’)
- Hideaki Suzuki, Tohoku (Japan) and London (UK): Brain imaging phenotypes in UK Biobank (7+3’)
- Dipender Gill, London (UK): Blood pressure traits differentially affect risk of different ischaemic stroke subtypes (7+3’)
- Ramin Zand, Danville (USA): the Geisinger MyCode community health initiative: a unique biobank for precision health (7+3’)
- Mattias Drake, Lund (Sweden): Lateralization of acute ischemic stroke on DWI-MRI in the MRI-GENIE study (7+3’)
- SJ Lee, Seoul (Korea): Lipidomic Risk Factors associated with the Ischemic Strokes and Coronary Artery Diseases: A Mendelian Randomization Approach (7+3’)

09:45-10:15 **Invited speaker 3**  
**Moderator: Yoichiro Kamatani, Kyoto (Japan)**  
- Piero Carninci, Yokohama (Japan): the Fantom program on functional annotation of the human genome

10:15-10:45 **BREAK**

10:45-12:45 **SESSION 6**
10:45-11:30  **CHARGE / population-based studies**  
*Moderators: Myriam Fornage, Houston (USA) and Stéphanie Debette, Bordeaux (France)*
- Aniket Mishra, Bordeaux (France): Incident stroke GWAS meta-analysis (12+3’)
- Paul Nyquist, Baltimore (USA): Deep and periventricular white matter hyperintensity GWAS meta-analysis (12+3’)
- Marie-Gabrielle Duperron, Bordeaux (France): Dilated perivascular space GWAS meta-analysis (12+3’)

11:30-12:45  **Asian Biobanks**  
*Moderators: Fumihiko Matsuda, Kyoto (Japan) and Yoichiro Kamatani, Kyoto (Japan)*
- Yoichiro Kamatani, Kyoto / Yokohama (Japan): Biobank Japan (12+3’)
- Iona Millwood, Oxford (UK / China): China Kadoorie Biobank (12+3’)
- Chung Hsu, Taipei (Taiwan): Taiwan Biobank (12+3’)
- Joohon Sung, Seoul (South Korea): Korean Biobank (12+3’)
- Atsushi Hozawa, Tohoku (Japan): Tohoku Medical Megabank Project Community-Based Cohort Study (12+3’)

12:45-13:50  **LUNCH**

13:50-14:45  **SESSION 7**

13:50-14:45  **WG6: META- MEGASTROKE**  
*Moderators: Jemma Hopewell, Oxford (UK), and Martin Dichgans, Munich (Germany)*
- Martin Dichgans, Munich (Germany) and Stéphanie Debette, Bordeaux (France): very brief summary of MEGASTROKE paper (5’)
- Dipender Gill, London (UK): Mediating pathways in the effect of educational attainment on risk of different stroke subtypes: insights from Mendelian randomization analysis (8+2’)
- Rainer Malik, Munich (Germany): Association of circulating levels of inflammatory cytokines with stroke: A Mendelian Randomization study (8+2’)
- Jemma Hopewell, Oxford (UK): Elucidating the impact of LDL-C and lipid-modifying mechanisms on stroke: A brief update (8+2’)
- Brad Worrall, Charlotteville (USA) / Newcastle (Australia): Brief update on the Intracranial and Extracranial Atherosclerotic Stroke analysis (8+2’)
- Carlos Cruchaga, Washington (USA) / Jin-Moo Lee, Washington (USA): Overlap in the Genetic architecture of stroke risk, early outcome and plasma protein levels (8+2’)

14:45-15:15  **Invited speaker 4**  
*Moderator: Yoichiro Kamatani, Kyoto (Japan)*
- Fumihiko Matsuda, Kyoto (Japan): AI technology for causal gene discovery

15:15-15:45  **BREAK**
15:45-16:45 NIH grant planning session: “A Patient-Derived Pipeline for Drug Discovery in Acute Ischemic stroke”  
Moderators: Jonathan Rosand, Boston (USA) and Jin-Moo Lee, St Louis (USA)  
Jonathan Rosand, Boston (USA); Carlos Cruchaga, St Louis (USA); Israel Fernandez-Cadenas, Barcelona (Spain); and Jin-Moo Lee, St Louis (USA)

16:45-17:25 CDKP, website, ISGC administrative aspects  
Moderators: Stephanie Debette, Bordeaux (France) and Jin-Moo Lee, St Louis (USA)  
- Jonathan Rosand, Boston (USA): Cerebrovascular Disease Knowledge Portal update (12+3’)
- Jenny Majersik, Salt Lake City (USA): ISGC website update (8+2’)
- Stéphanie Debette, Bordeaux (France): administrative updates (SC, scholarship, foundation etc.) (12+3’)

17:25-17:35 Invitation to next meeting in Washington DC, USA  
- Paul Nyquist, Baltimore (USA) & John Cole, Baltimore (USA)

17:35-19:00 WALKING TOUR-Nanzenji Temple

19.00 DINNER Westin Miyako Hotel Kyoto