

Wednesday, 12 October

8:30 - 9:00 **Keynote Lecture 2**
Molecular biology of flaviviruses
Alexander A KHROMYKH, University of Queensland, School of Chemistry and
Molecular Biosciences, Australia

9:00 - 12:15 **Session 2: Virus replication**
Chairs: Ralf BARTENSCHLAGER & Sung Key JANG

9:00 - 9:15 **Dissecting the requirements for Hepatitis C virus RNA
synthesis using a split replication system** **O-11**
*Lyudmila SHALAMOVA, Anika NIEDER-ROEHRMANN, Nadia DUENNES,
Gesche GERRESHEIM, Steffen MUELLER, Yutong SONG, Eckard WIMMER,
Oliver ROSSBACH, Michael NIEPMANN*

9:15 - 9:30 **miR-122 negatively regulates PCBP2-mediated
circularization of the hepatitis C virus RNA genome** **O-12**
You LI, Oya BERMEK, Jack D GRIFFITH, Stanley M LEMON

9:30 - 9:45 **G28A mutation is necessary for an efficient propagation of
HCV in miR-122 deficient condition** **O-13**
*Chikako ONO, Takasuke FUKUHARA, Daisuke MOTOOKA, Shota NAKAMURA,
Satomi YAMAMOTO, Hiroyuki MORI, Kentaro UEMURA, Toru OKAMOTO,
Su Su HMWE, Kazuaki CHAYAMA, Takaji WAKITA, Kazuhiko KOIKE,
Yoshiharu MATSUURA*

9:45 - 10:00 **Affinity purification of the Hepatitis C virus replicase
identifies Valosin-containing protein (VCP) AAA+ATPase as
an active viral replication modulator** **O-14**
Zhigang YI, Caiyun FANG, Zhenghong YUAN

10:00 - 10:15 **Sphingomyelin is a component in the membranous
replication factories** **O-15**
*Hossam E GEWAID, Haruyo AOYAGI, Koichi WATASHI, Ryosuke SUZUKI,
Hussein ALY, Keigo KUMAJAI, Toshiyuki YAMAJI, Masayoshi FUKASAWA,
Ayako MIMATA, Yuriko SAKAMAKI, Shizuko ICHINOSE, Kentaro HANADA,
Takaji WAKITA, Hideki AIZAKI*

10:15 - 10:30 **Hepatitis C virus replication requires ribonucleotide
reductase M2 to stabilize NS5B protein** **O-16**
*Bouchra KITAB, Masaaki SATOH, Masayuki SUDOH, Michinori KOHARA,
Kyoko TSUKIYAMA-KOHARA*

10:30 - 11:00 **Refreshment Break**

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| 11:00 - 11:15 | <p>Identification of host E3 ligases targeting dengue virus nonstructural protein 4B using wheat cell-free based-E3 protein array technology</p> <p><small>HirotaKa TAKAHASHI, Youichi SUZUKI, Yuki SAMESHIMA, Subhash G VASUDEVAN, Naoki YAMAMOTO, Tatsuya SAWASAKI</small></p> | O-17 |
| 11:15 - 11:30 | <p>Inosine Triphosphate Pyrophosphatase Enhances the Effect of Ribavirin on Hepatitis C Virus Cell Culture Infection</p> <p><small>Kristina NYSTRÖM, Gustav PETTERSSON, Joanna SAID, Giorgia ORTOLANI, Sofia BRUNET, Jonas CARLSTEN, Paulina WANROOIJ, Ka-Wei TANG, Martin LAGGING</small></p> | O-18 |
| 11:30 - 11:45 | <p>Dependence of Flavivirus replication on host Hsp70 chaperones provides an effective and resistance-free antiviral approach</p> <p><small>Shuhei TAGUWA, Kelly RAINBOLT, Arabinda NAYAK, Jason GESTWICKI, Raul ANDINO, Judith FRYDMAN</small></p> | O-19 |
| 11:45 - 12:00 | <p>Cyclooxygenase-2 facilitates dengue virus replication and serves as a potential target for developing antivirals</p> <p><small>Chun-Kuang LIN, Chin-Kai TSENG, Yu-Hsuan WU, Chih-Chuang LIAW, Jin-Ching LEE</small></p> | O-20 |
| 12:00 - 12:15 | <p>Let-7b induced by hepatitis C virus infection elicits dual effects on interferon responses of host cells</p> <p><small>Yung-Ju YEH, Hsien-Da HUANG, Ching-Ping TSENG, Ju-Chien CHENG</small></p> | O-21 |

12:15 - 12:30 Refreshment Break

12:30 - 13:20 Luncheon Seminar 1

Chair: Kazuhiko KOIKE, Department of Gastroenterology, The University of Tokyo

Practical Therapy of Chronic Hepatitis C

Kazuaki CHAYAMA, Department of Gastroenterology and Metabolism, Applied Life Sciences, Graduate School of Biomedical and Health Sciences, Hiroshima University

Sponsored by Bristol-Myers Squibb K. K.

13:20 - 14:30 Lunch

14:30 - 15:00 Keynote Lecture 3

Pestiviruses - the not so well known rural cousins of HCV

Norbert TAUTZ, University of Luebeck, Institute for Virology and Cell Biology, Germany

15:00 - 16:30 Session 3: Viral assembly

Chairs: Masanori IKEDA & Brett LINDENBACH

15:00 - 15:15 N6-methyladenosine in the hepatitis C viral RNA genome regulates infection O-22

Nandan S GOKHALE, Alexa BR MCINTYRE, Michael J MCFADDEN, Allison E RODER, Edward M KENNEDY, Sharon E HOPCRAFT, Kendra M QUICKE, Mariano A GARCIA-BLANCO, Matthew J EVANS, Sohail S SUTHAR, Shelton S BRADRICK, Christopher E MASON, Stacy M HORNER

15:15 - 15:30 The hepacivirus and pestivirus NS3 helicases act as motor proteins to power RNA encapsidation during virus particle assembly O-23

Brett LINDENBACH, Jean NDJOMOU, Danilo DUBRAU, Feng YANG, Rudolf K. BERAN, Andrew KOHLWAY, Norbert TAUTZ, Anna M. PYLE

15:30 - 15:45 Hepatitis C virus (HCV) proteins interact with the ESCRT machinery via ubiquitination to facilitate viral envelopment O-24

Rina BAROUCH-BENTOV, Gregory NEVEU, Fei XIAO, Melanie BEER, Elena BEKERMAN, Stanford SCHOR, Joseph CAMPBELL, Jim BOONYARATANAKORNKIT, Brett LINDENBACH, Albert LU, Yves JACOB, Shirit EINAV

15:45 - 16:00 Maturation of secreted hepatitis C virus particles by incorporation of Apolipoprotein E enhances infectivity and partially protects from neutralizing antibodies O-25

Thomas PIETSCHMANN, Dorothea BANKWITZ, Mandy DÖPKE, Kathrin HÜGING, Romy WELLER

16:00 - 16:15 Human cathelicidin can compensate the role of apolipoproteins in the formation of infectious HCV particles O-26

Tomokazu TAMURA, Francesc PUIG-BASAGOITI, Takasuke FUKUHARA, Chikako ONO, Satomi YAMAMOTO, Hiroyuki MORI, Takeshi KURIHARA, Toru OKAMOTO, Yoshiharu MATSUURA

16:15 - 16:30 Unraveling the mode of action of the NS5A inhibitor Daclatasvir on HCV assembly O-27

Bertrand BOSON, Solène DENOLLY, Fanny TURLURE, Christophe CHAMOT, Marlène DREUX, François-Loïc COSSET

16:30 - 17:00 Refreshment Break

17:00 - 19:00 Poster Session 1