

19th International Symposium on Epstein-Barr Virus and Associated Diseases (Asahikawa, Japan) Time table overview

July 29th (Thu)	
8:00	Registration (Onsite Registration 8:00-18:00, July 30th (Fri) 8:00-17:00)
9:00	Opening Remarks (Yasuaki Harabuchi, President, The 19th International Symposium on Epstein-Barr Virus and Associated Diseases)
10:00	Session 1 Viral latency and pathogenesis USA session
	S1-1: Paul M Lieberman. Tyrosine-Dependent EBNA1-DNA Cross-Linking Promotes Replication Termination at oriP and Viral Episome Maintenance
	S1-2: Rui Guo. Epstein-Barr Virus Subverts Methionine and Folate Metabolism to Maintain Highly Restricted Latency in Burkitt Tumor Cells
	S1-3: Chong Wang. A DNA tumor virus globally reprograms host 3D genome architecture 3 to achieve immortal growth
	S1-4: Emmanuela N Bonglack. Monocarboxylate transporter antagonism reveals metabolic vulnerabilities of viral-driven lymphomas
	S1-5: Jillian Bristol. Comparison of cellular and viral gene expression in B cells infected with Type 1 versus type 2 EBV by bulk and single cell RNAseq analyses reveals distinct phenotypes
11:00	Chair: Paul M Lieberman (The Wistar Institute, USA) Micah Luftig (Duke University, USA)
	S1-6: Huanzhou Xu. Novel replisome-associated proteins at cellular replication forks in EBV-transformed B lymphocytes
	Session 2
11:00	Viral replication and reactivation USA session
	S2-1: Sumita Bhaduri-McIntosh. EBV uses the NLRP3 inflammasome as a security system to sense danger and exit from latency
	S2-2: Nick Van Sciver. Hippo Signaling Effectors YAP and TAZ Induce Epstein-Barr Virus (EBV) Lytic Reactivation Through TEADs in Epithelial Cells
	S2-3 Quincy Rosemarie. Cellular chromatin reorganization by Epstein-Barr Virus during its lytic phase
12:00	Chair: Sankar Swaminathan (University of Utah, USA) Sumita Bhaduri-McIntosh (University of Florida, USA)
	S2-4: Dinesh Verma. Potential role of EBV lytic reactivation in enhancing ACE2-dependent SARS-CoV-2 infection.
12:00	S2-5: Rodney P Kincaid. Single Cell Assay Approaches for Defining the Roles of MicroRNAs and Gene Expression Changes in the Epstein-Barr Virus Reactivation Process
	Luncheon Seminar 1 (LS-1) Pathogenesis and Genomic Changes during leukemic transformation in patients with HTLV-1-associated neuroinflammatory disease Speaker: Yoshihisa Yamano (St. Marianna University, Japan) Chair: Ayako Arai (St. Marianna University, Japan)
13:00	Session 3 Nasopharyngeal and gastric carcinoma Asian session
	S3-1: Satoru Kondo. Genome sequence analysis clarifies Epstein-Barr virus genome variations enhance clinicopathological features of nasopharyngeal cancer in a non-endemic region, Japan
	S3-2: Xia Yu. Comparison of efficacy of a new antibody marker anti-BNLF2b, EBV-DNA and EBV-IgA antibody against EBV in the diagnosis of nasopharyngeal carcinoma
	S3-3: Harue Mizokami. Epigenomic rewiring by EBV infection in nasopharyngeal carcinoma
	S3-4: Qian Zhong. Single-cell transcriptomic analysis defines the interplay between tumor cells, viral infection, and the microenvironment in nasopharyngeal carcinoma
	Chair: Teruhito Yasui (National Institute of Biomedical Innovation, Health and Nutrition, Japan)
	S3-5: Atsushi Okabe. Heterochromatin disruption and chromatin structural rewiring induced by Epstein-Barr virus infection in gastric adenocarcinoma
	S3-6: Mariko Yasui. The molecular mechanisms of maintaining cancer stem cells in EBV-associated gastric carcinoma
14:00	S3-7: Soichiro Fukuda. A novel demethylating agent, MC180295 inhibited EBVaGC cell growth by suppressing DNA repair and cell cycle
	S3-8: Hisashi Iizasa. Helicobacter pylori promotes gastric epithelial infection of EBV by inducing EphA2 and NMHC-IIA
15:00	Invited Lecture 1 (IL-1): Whole-genome profiling of EBV-associated nasopharyngeal carcinoma Speaker: Kwok-Wai Lo (University of Hong Kong, China) Chair: Tomokazu Yoshizaki (Kanazawa University, Japan)
	Keynote Lecture 1 (KL-1): Epstein-Barr Virus Shaping of the Nasopharyngeal Carcinoma Genomic Landscape Speaker: Mei-Ru Chen (National Taiwan University, Taiwan) Chair: Asuka Nanbo (Nagasaki University, Japan)
16:00	Session 4 Chronic Active EBV Infection, nasal NK/T-cell lymphoma, and post-transplant lymphoproliferative disorder Euro and Asian session
	S4-1: Ayaka Ohashi. Plasma level of IL-1 β in Chronic Active EBV Infection can be a biomarker of angiopathy
	S4-2: Miki Takahara. Clinical investigation of 62 patients with early stage nasal NK/T-cell lymphoma
	S4-3: Keiji Iwatsuki. Involvement of V δ 1+ epithelial type of γ δ T cells expressing NK-cell antigens in the systemic form of hydroa vacciniforme-like lymphoproliferative disorders
	S4-4: Mayumi Yoshimori. IFN- γ , which is Produced by EBV-Positive Neoplastic NK-Cells Induces Macrophage Differentiation and Upregulates Blood Coagulation of which Both Causing HLH
	Chair: Hiroshi Kimura (Nagoya University, Japan) Lorenzo Leoncini (University of Siena, Italy)
	S4-5: Yuriko Ishikawa. Mucosal-associated invariant T cells are activated in an interleukin-18-dependent manner in Epstein-Barr virus associated T/natural killer cell lymphoproliferative diseases
	S4-6: Nenad Sejic. High throughput drug screening in ENKTL and CAEBV cells identifies synergistic combinations that enhance efficacy of BCL-XL-specific BH3 mimetics
17:00	S4-7: Emmanuel Drouet. Prognostic value of the soluble ZEBRA (Zta) protein in transplant patients with PTLD and Graft versus Host Disease (GVHD)
	S4-8: Claire Shannon-Lowe. Characterising Epstein Barr virus-associated lymphoproliferative diseases and the role of myeloid-derived suppressor cells
18:00	Henle Lecture (HL) A Journey Through EBV – Henle Lecture 2021 Speaker: Paul Farrell (Section of Virology, Imperial College, London, UK) Chair: Yasuaki Harabuchi (President, The 19th International Symposium on Epstein-Barr Virus and Associated Diseases. Asahikawa Medical University, Japan)

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8:00	Morning Seminar (MS) The New Discoveries on Chronic Active EBV Infection by the Japanese Researchers ~from their 15 Years of Study~ Speaker: Ayako Arai (St. Marianna University, Tokyo Medical and Dental University, Japan) Chair: Hiroshi Kimura (Nagoya University, Japan)	<u>Sponsored by Abbott Japan LLC.</u>	
9:00	Session 5 Virus-Host interaction and immunity USA session Chair: Rosemary Rochford (University of Colorado, USA)	S5-1: Elliott SoRelle. EBV-driven single-cell transcriptional heterogeneity and differential fates in lymphoblastoid cell lines S5-2: Anna Gil. Increased CD4+CD8+ T cells in Multiple Sclerosis (MS) correlate with altered EBV-specific responses and disease outcome. S5-3: Adityarup Chakravorty. The Epstein-Barr virus oncogene EBNA1 suppresses natural killer cell responses early after infection S5-4: Ashley Campbell. BGLF2 Interferes with Cellular miRNA Function by Binding RISC	
	10:00 Eric Christian Johannsen (University of Wisconsin-Madison, USA)	S5-5: Kathy Ho Yen Shair. An Air-Liquid Interface Culture Model of the Pseudostratified Epithelium is Susceptible to EBV Infection and Reveals Transcriptional Features of Nasopharyngeal Carcinoma S5-6: Luwen Zhang. Epstein Barr virus-immortalized B lymphocytes exacerbate experimental autoimmune encephalomyelitis in xenograft mice	
11:00	Session 6 Lymphomagenesis and therapeutics USA session Chair: Jeffrey Cohen (National Institutes of Health, USA) Ben Gewurz (Harvard Medical School, USA)	S6-1: Ben Gewurz.CYB561A3 is the Key Lysosomal Iron Reductase Required for Burkitt B-cell Growth and Survival S6-2: Wei Bu. Mapping antigenic sites of vulnerability on the Epstein-Barr virus fusion machinery S6-3: Ibukun A Akinyemi. T-5224, A SELECTIVE INHIBITOR OF C-FOS/ACTIVATOR PROTEIN-1 INHIBITS EPSTEIN-BARR VIRUS S6-4: Jeff Cohen. High risk of relapsed disease in patients with NK/T cell chronic active Epstein-Barr virus diseaseoutside of Asia S6-5: Sang-Hoon Sin. Kaposi Sarcoma in whole KSHV genome transgenic mice S6-6: Sandhya Sharma. Removal of CD45RA PBMCs Enables the Generation of Epstein-Barr Virus Specific T-cells from Patients with EBV+ Lymphoma	
	12:00	Luncheon Seminar 2 (LS-2) Regulation of hematopoiesis by O-GlcNAcylation Speaker: Hideaki Nakajima (Yokohama City University, Japan) Chair: Asuka Nanbo (Nagasaki University, Japan)	
	13:00	Session 7 Virus infection and immunity Asian session Chair: Mu-Sheng Zeng (Sun Yat-Sen University, China) Takayuki Murata (Fujita Health University, Japan)	S7-1: Takayuki Murata. RNAseq analysis identifies involvement of EBNA2 in PD-L1 induction during Epstein-Barr virus infection of primary B cells S7-2: Keiko Nagata. Epstein-Barr virus reactivation-induced immunoglobulin production: Significance on Graves' disease S7-3: Danling Dai. Epstein-Barr virus transcription factor BZLF1 impairs YTHDF2-mediated mRNA decay of KLF4 by transcriptional repression of METTL3 S7-4: Yoshitaka Sato. Exosomes containing Epstein-Barr virus tegument proteins are released from the infected cells and support de novo infection to target cells
		14:00	S7-5: Xiangwei Kong. VSV-based Epstein-Barr Virus gB Elicits Potent Immune Responses
15:00	Coffee Break		
	Invited Lecture 2 (IL-2): Thirty years of Epstein-Barr virus-associated gastric carcinoma Speaker: Masashi Fukayama (University of Tokyo, Japan) Chair: Hironori Yoshiyama (Shimane University, Japan)		
	Keynote Lecture 2 (KL-2): EBV in T/NK-cell lymphomagenesis Speaker: Hiroshi Kimura (Nagoya University, Japan) Chair: Keiji Iwatsuki (Okayama University, Japan)		
16:00	Session 8 Virus variation and environment Euro and Asian session Chair: Michelle J West (University of Sussex, UK) Teru Kanda (Tohoku Medical and Pharmaceutical University, Japan)	S8-1: Teru Kanda. Phylogenetic analyses of asymptotically infected EBV strains derived from Japanese tonsillar tissues in comparison with worldwide non-tumor-derived EBV strains S8-2: Yusuke Okuno. Epstein-Barr virus carrying structural variations in hematological and epithelial cell malignancies S8-3: Xiao Zhang. CryoEM structure of the tegumented capsid of Epstein-Barr virus S8-4: Yufeng Chen. Environmental risk factors for Epstein-Barr virus reactivation in the general population of a high-risk area for nasopharyngeal carcinoma S8-5: Ezgi Akidil. Highly efficient CRISPR-Cas9-mediated gene knockout in primary human B cells for functional genetic studies of Epstein-Barr virus infection S8-6: Vishwanath Kumble Bhat. Structure-function analysis of natural variants of Epstein-Barr virus EBNA1	
	17:00	S8-7: Maria Pena Francesch. Epstein Barr Virus capsid proteins BVRF2 and Bdrf1 interact with the autophagy pathway	
	Closing Remarks (Yasuaki Harabuchi, President) Including Announcement of Next Symposium (Lorenzo Leoncini, Vice President, University of Siena, Italy)		