

# 12<sup>th</sup> Kumamoto AIDS Seminar Global COE Joint International Symposium

1st

October 19<sup>th</sup>, Wednesday

Hotel Nikko Kumamoto 9:00-17:45

8:40-9:00	<b>Registration</b>	
9:00-9:05	<b>Opening Remarks</b>	<b>Shinji Harada [Vice-president, Kumamoto University]</b>
9:05-9:10		<b>Hiroaki Mitsuya [Leader of AIDS gCOE program]</b>
<b>Session I</b>		9:10-10:40 [90]
<i>Chair: Hiroaki Mitsuya [Kumamoto Univ.]</i>		
9:10-9:55 [45]	<b>01</b>	<b>Mark A. Wainberg</b> [McGill AIDS Centre, Canada] Novel drug resistance mutations selected in both the RT and IN genes of HIV-1 can restore viral replication competence
9:55-10:40 [45]	<b>02</b>	<b>Edward A. Berger</b> [NIH, USA] HIV-Receptor Interactions: Translating Discoveries in the Lab to Treatment and Prevention in People
10:40-11:00 [20]	<b>Coffee Break</b>	
<b>Session II</b>		11:00-12:00 [60]
<i>Chair: Shuzo Matsushita [Kumamoto Univ.]</i>		
11:00-11:30 [30]	<b>03</b>	<b>Hiroaki Mitsuya</b> [Kumamoto University, Japan] Darunavir with dual functions: inhibition of protease's enzymatic activity and dimerization
11:30-12:00 [30]	<b>04</b>	<b>Shinichi Oka</b> [NCGM / Kumamoto University, Japan] Treatment of HIV/HCV co-infected patients after IFN therapy failure
12:00-13:20 [80]	<b>Lunch</b>	
<b>Session III</b>		13:20-14:50 [90]
<i>Chair: Masafumi Takiguchi [Kumamoto Univ.]</i>		
13:20-14:05 [45]	<b>05</b>	<b>Mark A. Brockman</b> [Simon Fraser University, Canada] Impact of HLA selection pressure on HIV-1 sequence and protein function
14:05-14:50 [45]	<b>06</b>	<b>Andrew K. Sewell</b> [Cardiff University, UK] A systems view of preventing T-cell escape by HIV
<b>Session IV</b>		14:50-15:40 [50]
<i>Chair: Tetsuro Matano [NIID / Kumamoto Univ.]</i>		
14:50-15:10 [20]	<b>07</b>	<b>Takamasa Ueno</b> [Kumamoto University, Japan] Functional adaptation of HIV-1 Nef against immune-mediated selective forces
15:10-15:40 [30]	<b>08</b>	<b>Tatsuo Shioda</b> [Osaka University, Japan] Genetic polymorphisms of TRIM5 gene in human and macaques
15:40-16:10 [30]	<b>Coffee Break</b>	
<b>Session V</b>		16:10-17:00 [50]
<i>Chair: Shinji Harada [Kumamoto Univ.]</i>		
16:10-16:40 [30]	<b>09</b>	<b>Yoshio Koyanagi</b> [Kyoto University, Japan] Depletion of regulatory T cells in acute phase may enforce HIV systemic infection
16:40-17:00 [20]	<b>10</b>	<b>Shinya Suzu</b> [Kumamoto University, Japan] Anti-inflammatory- to pro-inflammatory phenotypic shift of macrophages by HIV proteins
<b>Session VI</b>		17:00-17:45 [45]
<i>Chair: Takamasa Ueno [Kumamoto Univ.]</i>		
17:00-17:45 [45]	<b>11</b>	<b>Thumbi Ndung'u</b> [University of KwaZulu-Natal., South-Africa] Clinical implications of recent trends in antiretroviral drug resistance patterns and viral tropism among HIV-1 subtype C infected patients in KwaZulu-Natal, South Africa

2nd

October 20<sup>th</sup>, Thursday

Aso Resort GRANDVRIO Hotel 12:40-19:00

12:40-14:20 [100]	<b>Poster Presentation</b>	
	<b>Session VII</b>	14:20-15:20 [60]
	<i>Chair: Shinichi Oka [NCGM / Kumamoto Univ.]</i>	
	gCOE Internatinal Grant Winners	
14:20-15:20[60]	12	<b>Keiko Sakai</b> [Kumamoto University, Japan] Investigation of the HLA-associated changes in Gag-mediated viral replication capacity in treatment-naive Japanese patients
	13	<b>Masao Hashimoto</b> [Kumamoto University, Japan] Influence of CD8 <sup>+</sup> T cell antigen sensitivity on the selection of HIV-1 escape variants
	14	<b>Madoka Koyanagi</b> [Kumamoto University, Japan] The different effect of HLA-B*35:01 on control in HIV-1 clade B and C infection
	<b>Session VIII</b>	15:20-15:50 [30]
	<i>Chair: Mark A. Wainberg [McGill AIDS Centre, Canada]</i>	
15:20-15:50 [30]	15	<b>Akifumi Takaori-Kondo</b> [ Kyoto University, Japan ] A novel function of HIV-1 Vif
	<b>Session IX</b>	15:50-16:20 [30]
	<i>Chair: Edward A. Berger [NIH, USA]</i>	
15:50-16:20 [30]	16	<b>Yukihito Ishizaka</b> [ NCGM, Japan ] Neurocognitive disorder by Vpr-induced retrotransposition of LINE-1
16:20-16:30 [10]	<b>Coffee Break</b>	
	<b>Session X</b>	16:30-17:30 [60]
	<i>Chair: Nobuo Sakaguchi [Kumamoto Univ.]</i>	
16:30-17:00 [30]	17	<b>Tetsuro Matano</b> [ NIID / Kumamoto University, Japan ] Impact of prophylactic vaccination on post-exposure CTL cooperation against SIV replication in rhesus macaques
17:00-17:30 [30]	18	<b>Masafumi Takiguchi</b> [ Kumamoto University, Japan ] Selection and accumulation of CTL escape mutants
	<b>Session XI : Learning from HTLV-1 study</b>	17:30-18:10[40]
	<i>Chair: Atsushi Koito [Kumamoto Univ.]</i>	
17:30-18:10 [40]	19	<b>Masao Matsuoka</b> [ Kyoto University, Japan] How human T-cell leukemia virus type 1 causes diseases?
18:10-19:00 [50]	<b>Poster Presentation / Best Poster Award Vote (with Drink)</b>	
19:00-21:00 [120]	<b>Reception</b>	

※In the morning sections, venue is divided into group A and B.

**Young Investigator Symposium : Group A 8:30-11:40**

**YIS-A Session I**

8:30-9:50 [80]

*Chair: Masateru Hiyoshi & Kazuaki Monde [Kumamoto Univ.]*

8:30-8:50 [20]	20	<b>Peter Gee</b> [Kyoto University, Japan]	Biochemical characterization of the HIV-1 restriction factor SAMHD1
8:50-9:10 [20]	21	<b>Katsuhiko Ito</b> [Kyoto University, Japan]	Phosphorylation of p53 is enhanced by HIV-1 Vif and required for Vif-induced G2 cell cycle arrest and apoptosis
9:10-9:30 [20]	22	<b>Nobuyo Higashi-Kuwata</b> [Kumamoto University, Japan]	Alteration of the dynamics of HIVmc dissemination in huPBMC NOJ mice under Raltegravir administration
9:30-9:50 [20]	23	<b>Shigeyoshi Harada</b> [Kumamoto University, Japan]	Impact of raltegravir pressure on the selection of HIV-1 envelope sequences in vitro

9:50-10:20 [30]

**Coffee Break**

**YIS-A Session II**

10:20-11:40 [80]

*Chair: Masayuki Amano & Shigeyoshi Harada [Kumamoto Univ.]*

10:20-10:40 [20]	24	<b>Kazuhiro Maeda</b> [Kumamoto University, Japan]	GANP promotes APOBEC3G encapsidation in virions to reduce viral infectivity
10:40-11:00 [20]	25	<b>Kazuaki Monde</b> [Kumamoto University, Japan]	Coassembly of HERV-K Gag with HIV-1 Gag
11:00-11:20 [20]	26	<b>Koji Watanabe</b> [ NCGM / Kumamoto University, Japan ]	Clinical and epidemiological features of amebiasis in HIV-1-infected Japanese men
11:20-11:40 [20]	27	<b>Atsuko Hachiya</b> [ NCGM, Japan ]	HIV-1 Reverse Transcriptase (RT) Polymorphism 172K, Suppresses the Effect of Clinically Relevant Drug Resistance Mutations to Both Nucleoside and Nonnucleoside RT Inhibitors

※In the afternoon sections, groups joint venue

11:40-13:20 [100]

**Poster and Lunch**

**Session XII**

13:20-13:40 [20]

*Chair: Takeo Kuwata & Masao Hashimoto [Kumamoto Univ.]*

13:20-13:40 [20]	36	<b>Best Poster Award winner presentation</b> The winner will be announced on October 20th.
------------------	----	---

**Session XIII**

13:40-14:30 [50]

*Chair: Yasuo Ariumi [Kumamoto Univ.]*

13:40-14:05 [25]	37	<b>Hiroyuki Gatanaga</b> [NCGM / Kumamoto University, Japan]	Naturally arising V3 mutations associated with HIV-1 tropism change
14:05-14:30 [25]	38	<b>Zabrina L. Brumme</b> [Simon Fraser University, Canada]	Adaptation of HIV-1 to immune selection pressure: trends from the North American epidemic

**Session XIV**

14:30-15:15 [45]

*Chair: Seiji Okada [Kumamoto Univ.]*

14:30-14:55 [25]	39	<b>Shuzo Matsushita</b> [Kumamoto University, Japan]	Cross-subtype reactivity and neutralization activity of a panel of human monoclonal antibodies obtained from a single donor
14:55-15:15 [20]	40	<b>Kazuhisa Yoshimura</b> [Kumamoto University, Japan]	Two-step escape pathway of the HIV-1 primary isolates induced by the in vitro selection of maraviroc

15:15-15:20

**Closing Remark**

**Masafumi Takiguchi**

[Director, Center for AIDS Research, Kumamoto University]

※In the morning sections, venue is divided into group A and B.

Young Investigator Symposium : Group B 8:30-11:40		
YIS-B Session I		8:30-9:50 [80]
Chair: Philip Mwimanzi [Kumamoto Univ.] & Zabrina L. Brumme [Simon Fraser Univ., Canada]		
8:30-8:50 [20]	28	<b>Ken Kono</b> [Osaka University, Japan] Functional and geographical diversity of antiretroviral host factor TRIMCyp in Cynomolgus macaque ( <i>Macaca fascicularis</i> )
8:50-9:10 [20]	29	<b>Chihiro Motozono</b> [Cardiff University, UK] The cross-reactivity footprints of HIV-specific CTLs
9:10-9:30 [20]	30	<b>Yusuke Takahara</b> [NIID / Univ. of Tokyo, Japan] Impact of therapeutic vaccination during HAART on CTL immunodominance in SIV infection
9:30-9:50 [20]	31	<b>Takayuki Chikata</b> [Kumamoto University, Japan] HLA-Associated Viral Polymorphism in Chronically HIV-1-Infected Japanese Cohort
9:50-10:15 [25] Coffee Break		
YIS-B Session II		10:15-11:40 [85]
Chair: Keiko Sakai & Madoka Koyanagi [Kumamoto Univ.]		
10:15-10:35 [20]	32	<b>Takeo Kuwata</b> [Kumamoto University, Japan] Biased induction of neutralizing antibodies with particular specificity and gene usage in SIVsmH635FC-infected macaques
10:35-10:55 [20]	33	<b>Philip Mwimanzi</b> [Kumamoto University, Japan] Population analysis of viral replication capacity by nef alleles of HIV elite controllers
10:55-11:20 [25]	34	<b>Thumbi Ndung'u</b> [University of KwaZulu-Natal., South-Africa] Impact of immune-driven sequence variation in hiv-1 gag-protease on viral replication capacity and disease progression
11:20-11:40 [20]	35	<b>Kazuo Suzuki</b> [St Vincent's Centre for Applied Medical Research, Australia] Sequence specific induction of HIV-1 transcriptional gene silencing targeting NF- $\kappa$ B sequences by siRNA without any off-target effects of other NF-B driven genes
※In the afternoon sections, groups joint venue		
11:40-13:20 [100] Poster and Lunch		
Session XII		13:20-13:40 [20]
Chair: Takeo Kuwata & Masao Hashimoto [Kumamoto Univ.]		
13:20-13:40 [20]	36	<b>Best Poster Award Winner Presentation</b> The winner will be announced on October 20th.
Session XIII		13:40-14:30 [50]
Chair: Yasuo Ariumi [Kumamoto Univ.]		
13:40-14:05 [25]	37	<b>Hiroyuki Gatanaga</b> [NCGM / Kumamoto University, Japan] Naturally arising V3 mutations associated with HIV-1 tropism change
14:05-14:30 [25]	38	<b>Zabrina L. Brumme</b> [Simon Fraser University, Canada] Adaptation of HIV-1 to immune selection pressure: trends from the North American epidemic
Session XIV		14:30-15:15 [45]
Chair: Seiji Okada [Kumamoto Univ.]		
14:30-14:55 [25]	39	<b>Shuzo Matsushita</b> [Kumamoto University, Japan] Cross-subtype reactivity and neutralization activity of a panel of human monoclonal antibodies obtained from a single donor
14:55-15:15 [20]	40	<b>Kazuhisa Yoshimura</b> [Kumamoto University, Japan] Two-step escape pathway of the HIV-1 primary isolates induced by the in vitro selection of maraviroc
15:15-15:20	<b>Closing Remark</b> <b>Masafumi Takiguchi</b> [Director, Center for AIDS Research, Kumamoto University]	