

# WELCOME

Greetings from a head investigator of the research team of “neo-self”

Welcome to The 1st International Symposium on “NEO-SELF” in Awaji Island. The purpose of this symposium is to discuss how pathogenic T cells and B cells are generated during the course of various immune diseases.



What is “neo-self” in the first place? Many studies have been conducted with the belief that autoimmune disease and allergy are the abnormal immune responses against “self” and “non-self”, respectively. However, recent findings suggested that there must be other forms of immune-cell recognition. This idea has come from the results suggesting that complex between peptide antigen and MHC (pMHC) is not a simple structure that had been appreciated. Instead, other forms of pMHC have been found, which was unexpected in a classical immunological view of “self” vs. “non-self”. Based on these findings, we thought that it would be important to elucidate the exact nature of pMHC in a quantitative and qualitative way with a proposal of a novel concept of “neo-self”. The project has been supported by Grants-in-Aid for Scientific Research, Japan Society for the promotion of science (JSPS) KAKENHI since 2016. The research team consists of 7 planned research groups and 21 publicly offered groups.

In this symposium, we will discuss on a fundamental issue of immunology: How immune cells are recognizing both foreign antigens and those of our own body during the immune response. It is our great pleasure to have two distinguished guests in the symposium: Prof. Jamie Rossjohn from Monash University and Prof. Kenneth Murphy from Washington University in St. Louis. I am hoping that this great opportunity will accelerate the exchange of many interesting ideas in order to elucidate what exactly “neo-self” is.

Sincerely yours

Mitsuru Matsumoto, M.D., Ph.D.

# The 1st International Symposium on NEO-SELF

**DATE** July.10 (Tue) ~ 11 (Wed) , 2018

**VENUE** Awaji Yumebutai International Conference Center, Reception Hall B  
1 Yumebutai, Awaji City, Hyogo 656-2306 Japan  
Phone: 81-799-74-1020  
<http://www.yumebutai.org/english/index.html>

## **REGISTRATION**

Location: Awaji Yumebutai International Conference Center, Foyer of Reception Hall B

Day/Date/Hours: Tuesday, 10 July, 11:30 – 18:30

Wednesday, 11 July, 8:30 – 11:00

All the participants are asked to wear name tags at the symposium site. Please return the name tag holder after the symposium is over.

Please pay the accommodation fee and welcome reception fee in Japanese yen upon registration.

## **LODGING**

THE WESTIN AWAJI ISLAND RESORT & CONFERENCE CENTER

2 Yumebutai, Awaji City, Hyogo 656-2306 Japan

Phone: 81-799-74-1111

<http://www.westin-awaji.com/en/>

Check-In Scheduled Time and Place: Tuesday, 10 July, 17:50 – 18:20 at Foyer of Reception Hall B

Check-Out Time and Place: Wednesday, 11 July, until 11:00 at Front Desk in The WESTIN Hotel

## **INTERNET ACCESS**

Reception Hall B - Network Name: '115', Password: Unnecessary

Foyer of Reception Hall B - Network Name: 'RB', Password: Unnecessary

The Westin Hotel 2F - Network Name: 'westin-awaji-guest', Password: Unnecessary

The Westin Hotel Guest Rooms – Both network name and password are written in the black book in each room.

## **SPEAKER INFORMATION**

Speaker Check-In: Please preview your slides at the console beside the podium in Reception Hall B prior to the break before your session. You can familiarize yourself with the laser pointer and stage set-up.

Presentation Guidelines: Oral presentation is scheduled to be 20 minutes in talk plus questions and answers. Please prepare your personal laptops, conversion connector, AC power cord connector, and VGA D-Sub 15 pin connector or HDMI connector.

## **SCIENTIFIC DATA**

Please note that many of the findings in presentations are being disclosed prior to publication. All information communicated by presenters should be considered "personal communication." Please seek permission from the presenter before quoting unpublished research results or using data as a basis for further investigations.

**\*\* PHOTOGRAPHY OF PRESENTATIONS IS NOT ALLOWED. \*\***

### **OTHER CONSIDERATIONS**

As a courtesy to all meeting attendees, please note the following:

- Please make sure all cell phones are turned off when sessions are in progress.
- Photography is prohibited in all sessions. Your cooperation is greatly appreciated.

### **PARKING**

Please park your car at the parking of The Westin Hotel and take a parking ticket to the front desk of the hotel. Participants can park cars for free.

### **CHILD CARE**

Due to the professional nature of this meeting, children are not allowed in session, so please plan accordingly. Child care arrangements should be made in advance.

### **EMERGENCIES**

Please notify Awaji Yumebutai International Conference Center staff or The Westin Hotel staff for basic medical assistance.

### **ELECTRICITY**

Appliances in Japan run on 100V A.C. and plug in to a 2-flat pin, Type A socket. It is difficult to find sockets compatible with 3-pin plugs or supplying 120V, 200V, and 220V electricity, so we recommend you to bring an adapter with you.

### **CURRENCY EXCHANGE**

Money exchange is possible at the hotel front.

### **LOCAL TAXES**

Japan has a sales tax rate of 8% on consumer goods and services.

### **TIME ZONE**

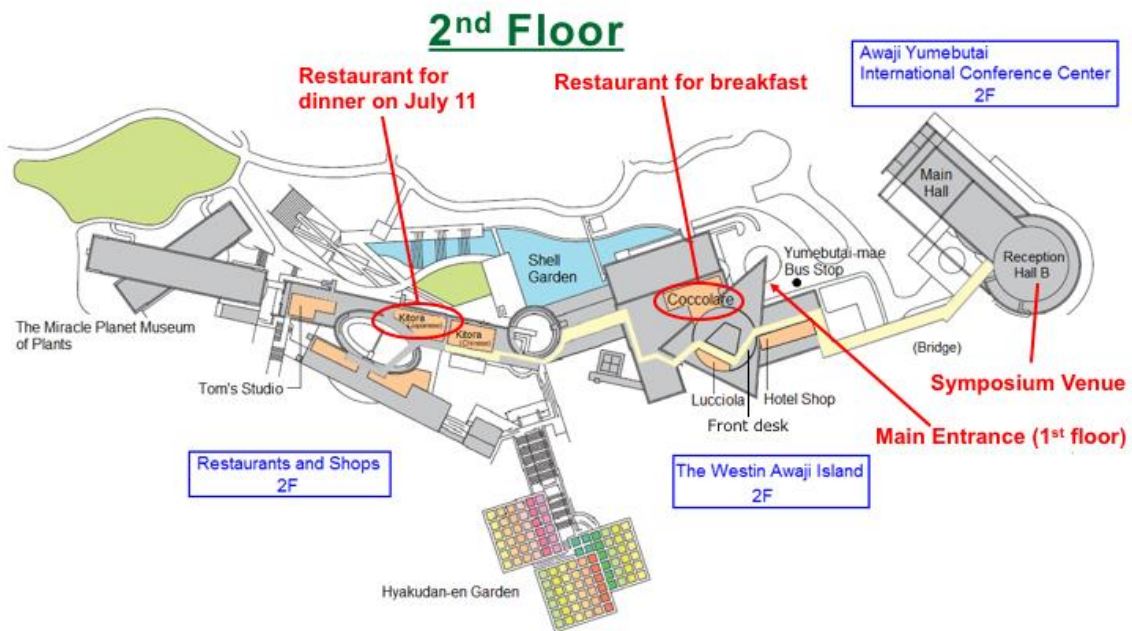
Japan is on Japan Standard Time (JST) or UTC +9 hours.

### **LIABILITY**

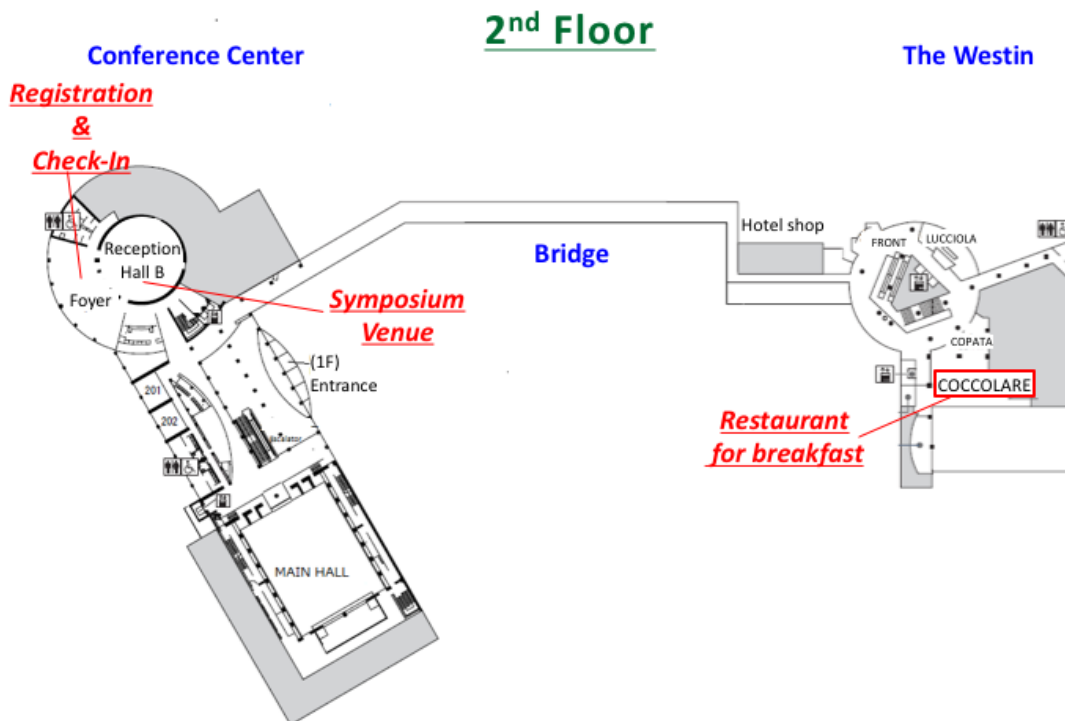
The Symposium organizers cannot accept liability for injuries or losses arising from accidents or other situations during or as a consequence of the Symposium.

**FLOOR MAP**

AWAJI YUMEBUTAI



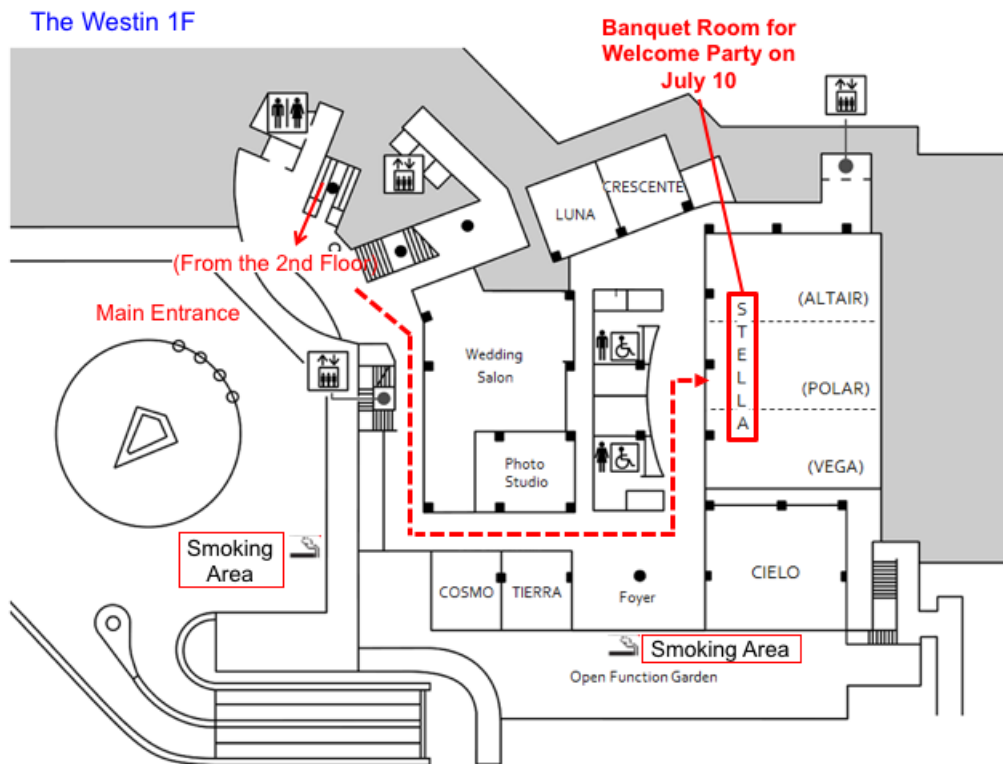
**BREAKFAST**



Breakfast is included with your accommodation and will be served at the Westin Hotel, 2F, restaurant 'COCCOLARE' with your meal ticket.

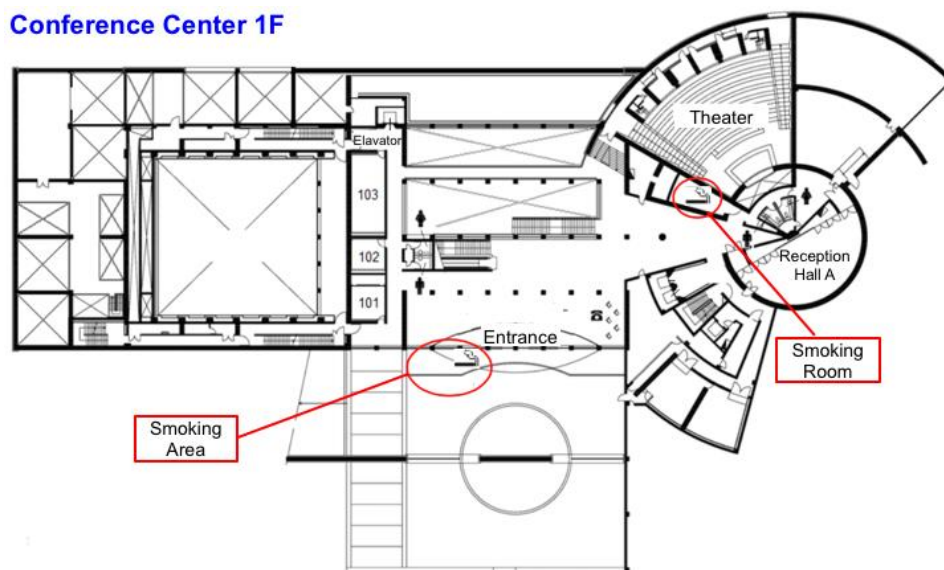
### **WELCOME RECEPTION**

We will throw a Welcome Reception at the Westin hotel, 1F, Banquet Room 'STELLA' on Tuesday, 10 July starting at 18:30.



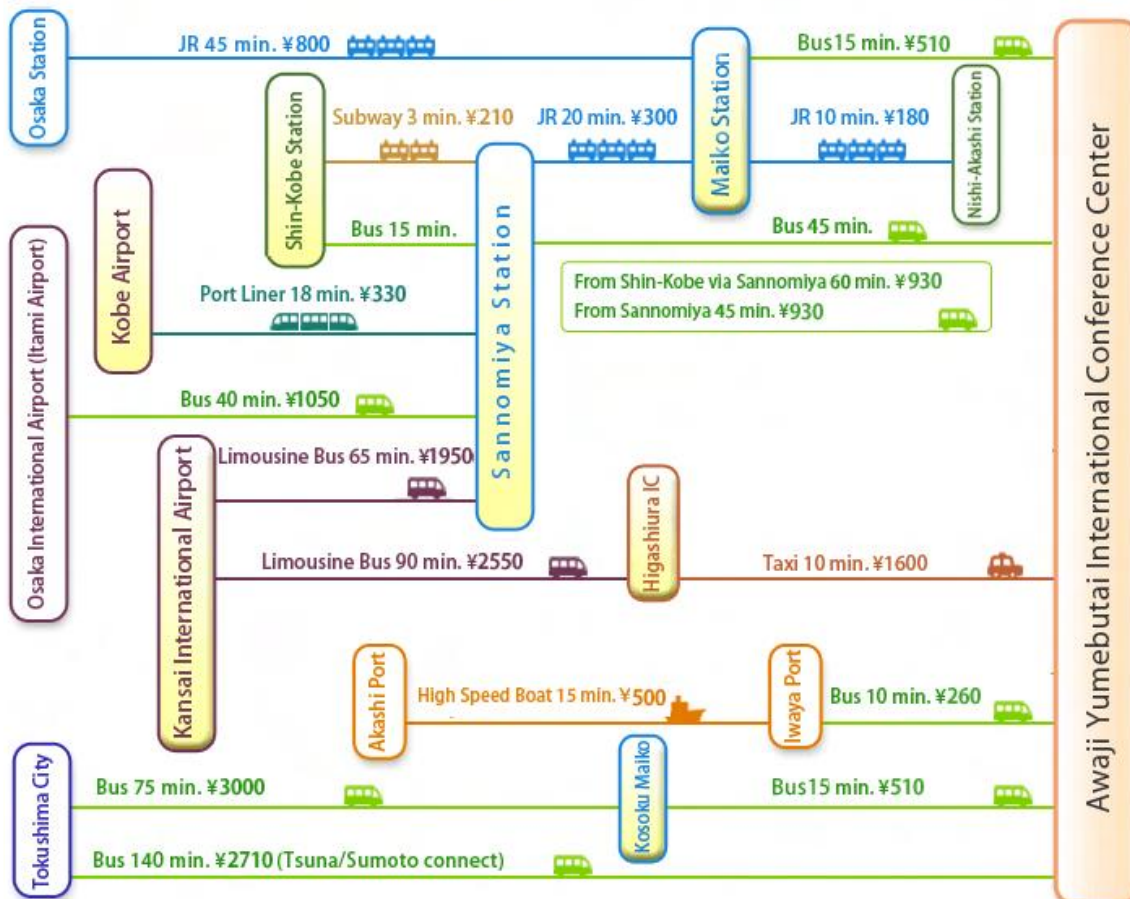
### **SMOKING**

Both Awaji Yumebutai International Conference Center and The Westin Hotel are smoke-free facilities except for smoking areas and permitted guest rooms.



**ACCESS**

**✿ By Public Transportation**



**BUS TIMETABLE**

**淡路夢舞台前 バス時刻表**  
**Awaji Yumebutai-mae Highway Bus Timetable**

淡路夢舞台前・国道夢舞台前⇄高速舞子 片道510円(小学生260円) / 三宮・新神戸 片道930円(小学生470円)  
 Awaji Yumebutai-mae, Kokudou Yumebutai-mae⇄Kohsoku Maiko / Adult ¥510 (School Child ¥260) 、  
 Sannomiya, Shin-Kobe / Adult ¥930 (School Child ¥470)

2017年7月15日改正  
 As of July:15th, 2017

上り Up (Nobori)					下り Down (Kudari)				
淡路夢舞台前 Awaji Yumebutai-mae	高速舞子 Kohsoku Maiko	三宮 Sannomiya	新神戸 Shin-Kobe		新神戸 Shin-Kobe	三宮 Sannomiya	高速舞子 Kohsoku Maiko	淡路夢舞台前 Awaji Yumebutai-mae	国道夢舞台前 Kokudou Yumebutai-mae
○ 8:16	8:31	8:58	9:08		● -	-	6:30	6:45	-
● 8:21	8:36	9:03	9:13		○ 6:05	6:20	6:50	7:05	-
8:56	9:15	9:42	9:52		● 6:45	7:00	7:30	7:48	-
9:16	9:31	9:58	10:08		-		7:45	8:02	-
○ 9:31	9:46	10:13	10:23		7:15	7:30	8:00	8:18	-
● 9:36	9:51	10:18	10:28		● -	-	8:10	8:27	-
○ 9:46	10:01	10:28	10:38		7:45	8:00	8:30	8:45	-
● 9:56	10:11	10:38	10:48		8:15	8:30	9:00	9:18	-
10:16	10:35	11:02	11:12		8:40	8:55	9:30	9:45	-
○ 10:36	10:51	11:18	11:28		9:15	9:30	10:00	10:18	-
● 10:46	11:01	11:28	11:38		○ 9:45	10:00	10:30	10:45	-
○ 10:56	11:11	11:38	11:48		10:15	10:30	11:00	11:15	-
11:16	11:31	11:58	12:08		○ 10:45	11:00	11:30	11:45	-
11:46	12:01	12:28	12:38		11:20	11:35	12:05	12:20	-
12:51	13:06	13:33	13:43		12:15	12:30	13:00	13:15	-
13:46	14:01	14:28	14:38		13:15	13:30	14:00	14:18	-
14:21	14:40	15:07	15:17		14:15	14:30	15:00	15:15	-
14:46	15:01	15:28	15:38		-	-	15:45	16:03	-
15:16	15:35	16:02	16:12		15:15	15:30	16:00	16:15	-
15:46	16:01	16:28	16:38		15:40	15:55	16:25	16:43	-
16:16	16:35	17:02	17:12		16:05	16:20	16:50	17:05	-
16:46	17:01	17:28	17:38		16:45	17:00	17:30	17:45	-
○ 17:16	17:31	17:58	18:08		17:15	17:30	18:00	18:18	-
● 17:36	17:55	18:22	18:32		○ 17:35	17:50	18:20	18:35	-
○ 17:46	18:05	18:32	18:42		17:45	18:00	18:30	18:45	-
18:16	18:35	19:02	19:12		18:15	18:30	19:00	19:15	-
● 18:46	19:05	-	-		18:45	19:00	19:30	19:45	-
19:16	19:35	20:02	20:12		19:15	19:30	20:00	-	20:15
20:16	20:31	20:58	21:08		19:45	20:00	20:30	-	20:45
21:16	21:31	21:58	22:08		20:15	20:30	21:00	-	21:15
21:56	22:11	22:38	22:48		20:45	21:00	21:30	-	21:45
22:36	22:51	23:18	23:28		21:35	21:50	22:20	-	22:35
					22:45	23:00	23:30	-	23:45

\* 淡路夢舞台前⇄三宮/新神戸の乗車券を2Fウェスティンホテルショップにて販売しております。(ご乗車時のお支払いも可能です)  
 The ticket for "Awaji Yumebutai-mae to Sannomiya / Shin-kobe" is available at 2F hotel shop. (Boarding by cash is allowed.)

● 平日のみ運行 Weekdays  
 ○ 土・日・祝日のみ運行 Weekends & Holidays

**SYMPOSIUM TIMETABLE**

	July 10 Tuesday	July 11 Wednesday	July 12 Thursday
9:00		Keynote Lecture 2 Professor Jamie Rossjohn	班員研究報告 4
9:30		Break	休憩
10:00		Session 4	班員研究報告 5
10:30		Break	休憩
11:00		Session 5	講評 領域事務連絡 班会議閉会の挨拶
11:30	Registration	Session 5	公募班解散
12:00		Opening Remarks	昼食：計画班、アドバイザー、学術調査官 (会議室403)
12:30		Closing Remarks	
13:00	Keynote Lecture 1 Professor Kenneth Murphy	Commemorative Photo ポスター掲示 昼食 (レセプションホールB ホワイエ)	総括班会議 (計画班、アドバイザー、学術調査官) (会議室403)
13:30	Break		
14:00	Session 1	班会議閉会の挨拶	
14:30	Break	班員研究報告 1	
15:00	Session 2	休憩	
15:30	Break	班員研究報告 2	
16:00	Session 3	休憩	
16:30	Break	班員研究報告 3	
17:00	Break	班員研究報告 3	
17:30	Session 3	ポスター発表 (レセプションホールB ホワイエ)	
18:00	Hotel Check-in (Foyer of Reception Hall B)	(ホテル チェックイン) 移動	
18:30		夕食 夢舞台レストラン2階 「海鮮料理きとら」	
19:00	Welcome Reception (Banquet Room 'STELLA' on the 1st Floor of the hotel)		
19:30			
20:00		ポスター発表 兼 意見交換会 (レセプションホールB ホワイエ)	
20:30			
21:00			
21:30			
22:00			
22:30			



## SYMPOSIUM SCHEDULE

**July, 10**

- 12:30 – 12:45 **Opening remarks** (Mitsuru Matsumoto, Hiroyuki Kishi)
- 12:45 – 13:45 **Keynote lecture 1** (Chair : Mitsuru Matsumoto, Yasunobu Yoshikai)  
**Kenneth Murphy (Washington University School of Medicine in St. Louis)**  
**: Development, Help and Cross-presentation by Dendritic cells**
- 13:45 – 14:00 **Break**
- 14:00 – 15:00 **Session 1** (Chair : Hiroyuki Kishi)  
Mitsuru Matsumoto (Tokushima University)  
 : Immune tolerance mediated by Aire  
Yasunobu Yoshikai (Kyushu University)  
 : Host defense by gamma delta T cells recapitulates their thymic ontogeny  
Ichiro Taniuchi (RIKEN)  
 : Regulation of dendritic cell development by Runx factors
- 15:00 – 15:15 **Break**
- 15:15 – 16:15 **Session 2** (Chair : Mitsuru Matsumoto)  
Keiko Udaka (Kochi University)  
 : How do tumor-specific Th cells find their way into tumor tissues?  
Yasuharu Nishimura (Kumamoto University)  
 : Invigoration of tumor immunity by a combined blockade of IL-6- and PD1-mediated signals  
Shohei Hori (The University of Tokyo)  
 : Transcriptional control of tissue Treg cells
- 16:15 – 16:30 **Break**
- 16:30 – 17:50 **Session 3** (Chair : Keiko Udaka)  
Tadashi Yokosuka (Tokyo Medical University)  
 : Advantages of single molecule imaging for neo-self  
Tadahiro Suenaga (Osaka University)  
 : Misfolded proteins as the neo-self targets of autoantibodies  
Hiroyuki Kishi (University of Toyama)  
 : Toward the repertoire analysis of neo-self recognizing receptors  
Hiroshi Kawamoto (Kyoto University)  
 : Regeneration of antigen-specific T cells using the iPS cell technology
- 17:50 – 18:30 **Hotel Check-in** (Foyer of Reception Hall B)
- 18:30 – 20:30 **Welcome Reception** (Banquet Room 'STELLA' on the 1st Floor of the hotel)

**July, 11**

9:00 – 10:00 **Keynote lecture 2** (Chair : Takehiko Sasazuki, Shigeyuki Yokoyama)  
**Jamie Rossjohn (Monash University)**  
: **Immune sensing of vitamin B metabolites**

10:00 – 10:15 **Break**

10:15 – 11:15 **Session 4** (Chair : Tadashi Yokosuka)  
Takehiko Sasazuki (Kyushu University)  
: HLA controls clinical conversion from Hashimoto thyroiditis to Graves' disease.  
Shigeyuki Yokoyama (RIKEN)  
: Structure and function of an HLA-DP5•peptide complex  
Kouetsu Ogasawara (Tohoku University)  
: Identification of the pathogenic T cells in metal allergy

11:15 – 11:30 **Break**

11:30 – 12:30 **Session 5** (Chair : Koetsu Ogasawara)  
Takashi Shiina (Tokai University)  
: Reference grade characterization of polymorphisms in full-length HLA genes  
Kazuyoshi Hosomichi (Kanazawa University)  
: Landscape of the human MHC via NGS technologies  
Hisashi Arase (Osaka University)  
: Immune evasion by pathogens via MHC class I recognizing inhibitory receptors

12:30 – 12:40 **Closing remarks** (Yasunobu Yoshikai)

12:40 – 13:00 **Commemorative Photo**