## The 13th Awaji International Forum on Infection and Immunity in Nara

# Program

#### September 23, Tuesday

13:00	Opening Remarks
13:15 - 14:00	Review Talk 1 Chair: Yoshiharu Matsuura, Osaka University, Japan
	RT1 Yusuke Yanagi, Kyushu University, Japan
	Virus entry: receptor attachment and membrane fusion
14:00 - 17:35	Session 1: Invasion of Pathogens
	Chairs: Wenhui Li, National Institute of Biological Sciences, Beijing, China Masao Matsuoka, Kyoto University, Japan
	S1-1 <b>Wenhui Li</b> , National Institute of Biological Sciences, Beijing, China Viral entry of HBV and HDV: where are we now?
	<ul> <li>S1-2 Yasuko Mori, Kobe University, Japan</li> <li>The mechanism of human herpesvirus-6 infection</li> <li>– entry process into host cells –</li> </ul>
	S1-3 <b>Bart L. Haagmans</b> , The Erasmus Medical Center, the Netherlands MERS: emergence of a novel coronavirus
	S1-4 <b>Pierre L. Goossens</b> , Institut Pasteur, France Imaging <i>Bacillus anthracis</i> infection
	S1-5 Hirokazu Arimoto, Tohoku University, Japan Endogenous nitrated nucleotide is a key mediator of autophagy and innate defense against bacteria
	Oral Poster

18:30 – 20:30 Welcome Party - Hotel Nikko Nara

## September 24, Wednesday

## 9:00 – 9:45 **Review Talk 2**

Chair: Yasuhiko Horiguchi, Osaka University, Japan

RT2 **B. Brett Finlay**, The University of British Columbia, Canada Microbiota-pathogen interplay in enteric infectious diseases

#### 9:45 - 12:35 Session 2: Host and Pathogen Interaction I

- Chairs: Herbert W. Virgin, Washington University School of Medicine, USA Hiroshi Kiyono, Tokyo University, Japan
- S2-1 **Herbert W. Virgin**, Washington University School of Medicine, USA Gene-microbe interactions that regulate the virome, immunity and disease pathogenesis
- S2-2 **Gregory F. Sonnenberg**, Weill Cornell Medical College, USA Regulation of host-commensal bacteria relationships in human health and disease
- S2-3 Kiyoshi Takeda, Osaka University, Japan Regulation of gut homeostasis through segregation of microbiota and colonic epithelia
- S2-4 Hiroshi Ohno, RIKEN, JapanThe role of gut microbial short-chain fatty acids in host defense and the immune system

Oral Poster

12:35 - 14:30 Lunch Break & Poster Session

#### 14:30 - 17:35 Session 3: Innate Immunity

Chairs: Gabrielle Belz, Walter and Eliza Hall Institute, Australia Takashi Fujita, Kyoto University, Japan

- S3-1 **Gabrielle Belz**, Walter and Eliza Hall Institute, Australia The wiring and maintenance of innate lymphoid cells
- S3-2 Shizuo Akira, Osaka University, Japan Regnase-1, a ribonuclease essential to the inflammatory and immune responses
- S3-3 James Vince, Walter and Eliza Hall Institute, Australia Regulation of apoptosis, necroptosis, NLRP3 inflammasome activation and systemic inflammation by IAP proteins
- S3-4 Ajay Chawla, University of California, San Francisco, USAType 2 immunity regulates acclimatization to environmental cold
- S3-5 Yumiko Imai, Akita University, Japan Lipid metabolic pathways control the pathology of severe influenza virus infection

Oral Poster

## September 25, Thursday

#### 9:00 – 9:45 **Review Talk 3**

	Chair: Hitoshi Kikutani, Osaka University, Japan
	RT3 <b>David Tarlinton</b> , Walter and Eliza Hall Institute, Australia Plasma cell development and persistence; in sickness and in health
9:45 - 12:35	Session 4: Acquired Immunity Chairs: Daniel Gray, Walter and Eliza Hall Institute, Australia
	Osamu Takeuchi, Kyoto University, Japan
	S4-1 <b>Hitoshi Kikutani</b> , Osaka University, Japan Quality of humoral immune responses: selection of pathogen specific and self reactive antibodies
	<ul> <li>S4-2 Yoshimasa Takahashi, National Institute of Infectious Diseases, Japan</li> <li>B cell pathways for protective memory responses against influenza virus infection</li> </ul>
	S4-3 <b>Johannes F. Scheid</b> , The Rockefeller University, USA Isolation and application of HIV specific antibodies from patients with broadly neutralizing serum activity
	S4-4 <b>Daniel Gray</b> , Walter and Eliza Hall Institute, Australia How apoptosis controls regulatory T cell differentiation and homeostasis
	Oral Poster
12:35 - 14:30	Lunch Break & Poster Session
14:30 - 15:15	<b>Review Talk 4</b> Chair: Shizuo Akira, Osaka University, Japan
	RT4 <b>Tadamitsu Kishimoto</b> , Osaka University, Japan IL-6: a new era for the treatment of autoimmune inflammatory disease
15:15 - 17:35	Session 5: Vaccines and Therapy Chairs: Barney S. Graham, National Institutes of Health, USA Jun Kunisawa, National Institute of Biomedical Innovation, Japan
	S5-1 Barney S. Graham, National Institutes of Health, USA

RSV Vaccine development: a new paradigm for rational immunogen design

- S5-2 **Sujan Shresta**, La Jolla Institute for Allergy and Immunology, USA Influence of antibodies and T cells on dengue disease outcome
- S5-3 Tetsuro Matano, National Institute of Infectious Diseases, Japan

Depletion of vaccine-induced CD107a<sup>-</sup> CD4<sup>+</sup> T cells following AIDS virus infection

S5-4 **Sho Yamasaki**, Kyushu University, Japan Recognition of bacterial adjuvants through C-type lectin receptors

19:00 - 21:30 Banquet - Restaurant "Half Time" (Nara National Museum)

## September 26, Friday

9:00 – 9:45	Review Talk 5
	Chair: Toshihiro Horii, Osaka University, Japan
	RT5 Alan F. Cowman, Walter and Eliza Hall Institute, Australia
	Moving in and renovating: invasion and remodeling of the human
	erythrocyte by the malaria parasite
9:45 - 12:35	Session 6: Host and Pathogen Interaction II
	Chairs: John Boothroyd, Stanford University, USA
	Osamu Kaneko, Nagasaki University, Japan
	S6-1 Cevayir Coban, Osaka University, Japan
	Imaging malaria immunopathology
	S6-2 John C. Boothroyd, Stanford University, USA
	Home-invaders with a party agenda: how some strains of Toxoplasma sedate
	the dog, rearrange the furniture and then turn up the music!
	S6-3 Masahiro Yamamoto, Osaka University, Japan
	NFAT4 activation by the Toxoplasma gondii polymorphic effector protein
	GRA6 maximizes the parasite virulence in a strain-specific manner
	S6-4 Luis Enjuanes, Spanish National Centre for Biotechnology, Spain
	SARS and MERS coronaviruses virulence and protection
	Oral Poster
12:35 - 13:30	Lunch Break
13:30 - 15:15	Session 7: Escape from Host Defense
	Chairs: Greg Towers, University College London, UK
	Tatsuo Shioda, Osaka University, Japan

- S7-1 **Elizabeth L. Hartland**, The University of Melbourne, Australia Death receptors and bacterial diarrhoea
- S7-2 **Greg J. Towers**, University College London, UK HIV-1 evasion of innate immune detection and uncloaking as a new

paradigm for the prevention and treatment of viral infection

S7-3 Yasushi Kawaguchi, The University of Tokyo, Japan
 Evasion of CD8<sup>+</sup> T cells mediated by proteins kinases encoded by herpes simplex virus 1

Oral Poster

## 15:15 Closing Remarks