

# Program

## International Symposium I

**Dec. 1<sup>st</sup>**

### ACROS Fukuoka B2F Event Hall

#### 8:30 – 10:00    Session I    Molecular & Cellular Mechanism in Organ-Specific Thyroid Autoimmunity

Chairs: **Shunichi Yamashita** (Fukushima Medical University, Japan)

**Yaron M. Tomer** (Mount Sinai School of Medicine, New York, NY, USA)

- 8:30 – 9:00    1    Mechanisms in Development and Therapy of Autoimmune Thyroid Disease .....  
**Leslie J. De Groot** (Department of Cellular and Molecular Biology, University of Rhode Island, USA)
- 9:00 – 9:30    2    Animal Models of Graves' Disease .....  
**Yuji Nagayama** (Department of Molecular Medicine, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)
- 9:30 – 10:00    3    The Etiology of Autoimmune Thyroiditis: From Genetics to Epigenetics .....  
**Yaron M. Tomer** (Division of Endocrinology, Mount Sinai School of Medicine, New York, NY, USA)

#### 10:30 – 11:30    Session II    Clinical Aspects on Thyroid Autoimmunity

Chairs: **Mitsushige Nishikawa** (Kansai Medical University, Japan)

**Leonidas H. Duntas** (Unit of Endocrinology Metabolism and Diabetes, Evgenidion Hospital, University of Athens, Greece)

- 10:30 – 11:00    1    Hashimoto's thyroiditis-Discovery of disease and current concept .....  
**Nobuyuki Amino** (Kuma Hospital, Kobe, Japan)
- 11:00 – 11:30    2    Iodine and Thyroid Autoimmunity .....  
**Ken Okamura** (Second Dept. Int. Med, Kyushu University, Japan)

#### 11:40 – 12:40    Session III    Autoimmunity to TSH Receptor

Chairs: **Keiichi Kamijo** (Kamijo Thyroid Clinic, Japan)

**George J. Kahaly** (Gutenberg University Medical Center, Germany)

- 11:40 – 12:10    1    Autoimmunity and the TSH Receptor .....  
**Bernard Rees Smith** (RSR Limited, U.K.)
- 12:10 – 12:40    2    Novel Chimeric Thyrotropin Receptor Bioassays for Stimulating and Blocking Autoantibodies .....  
**George J. Kahaly** (Gutenberg University Medical Center, Dept. of Medicine I, Mainz, Germany)

**12:40 – 14:00    Session IV    Graves' Ophthalmopathy**

Chairs: **Yuji Hiromatsu** (Kurume University, Japan)

**Tomasz Bednarczuk** (Medical University of Warsaw, Warsaw, Poland)

- 12:40 – 13:10    1    Eye changes in Hashimoto's thyroiditis and Graves' disease – similarities, differences and risk factors .....  
**Jack R. Wall** (The University of Sydney, Sydney, Australia)
- 13:10 – 13:40    2    Autoimmunity in Graves' Ophthalmopathy: a Translational Approach (Shizume Lecture) .....  
**Wilmar M. Wiersinga** (Department of Endocrinology and Metabolism, Academic Medical Center, University of Amsterdam, The Netherlands)
- 13:40 – 14:00    3    New Treatment Modalities for Graves' Ophthalmopathy .....  
**Mario G. Salvi** (Graves' Orbitopathy Unit, Endocrinology, Department of Clinical and Community Sciences, Fondazione Ca'Granda IRCCS, University of Milan, Italy)

**14:30 – 15:30    Session V    New Insights into Thyroid Autoimmunity**

Chairs: **Yuji Nagayama** (Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)

**Wilmar M. Wiersinga** (University of Amsterdam, The Netherlands)

- 14:30 – 14:50    1    Low molecular weight TSHR antagonists for the treatment of Graves' disease and Graves' ophthalmopathy .....  
**Chris J. van Koppen** (Merck Research Laboratories, MSD, Oss, The Netherlands)
- 14:50 – 15:10    2    Linking nutrigenetics and nutrigenomics to thyroid autoimmunity .....  
**Leonidas H. Duntas** (Unit of Endocrinology Metabolism and Diabetes, Evgenidion Hospital, University of Athens, Greece)
- 15:10 – 15:30    3    IgG4 Thyroiditis and Fibrotic Variant of Hashimoto's Disease .....  
**Kennichi Kakudo** (Department of Medical Technology, Kobe Tokiwa University, Kobe, Japan)  
**Yaqion Li** (Department of Human Pathology, Wakayama Medical University, Japan)

# Centennial of Hashimoto Disease Memorial Ceremony and Lecture

**Dec. 1<sup>st</sup>**

## ACROS Fukuoka 4F International Conference Hall

### 16:00 – 16:40 Memorial Ceremony

16:05	Opening Remarks .....
	<b>Masao Tanaka</b> (Co-chair of the Centennial of Hashimoto Disease Organizing Committee Professor, Dept. of Surgery and Oncology, Kyushu University, Japan)
16:10	Guest Remarks .....
	<b>Setsuo Arikawa</b> (President of Kyushu University, Japan)
16:15	Guest Remarks .....
	<b>Fumimaro Takaku</b> (President of Japan Association of Medical Sciences, Japan)
16:20	Guest Remarks .....
	<b>Wilmar Wiersinga</b> (Professor of University of Amsterdam, Academic Medical Center, Japan)
16:25	Guest Remarks .....
	<b>Shigenobu Nagataki</b> (Professor Emeritus, Nagasaki University, Japan)

### 16:40 – 17:00 Special Lecture

The History of Hashimoto Disease  
Since its beginning as “Struma lymphomatosa” to the establishment of a new diagnosis as  
“Hashimoto disease” .....

**Masao Tanaka** (Department of Surgery and Oncology, Kyushu University, Japan)

### 17:00 – 17:15 Memorial Lecture 1

Chair: **Yuji Hiromatsu** (Division of Endocrinology and Metabolism, Department of Medicine, Kurume  
University School of Medicine, Japan)

Hashimoto’s Disease – Clinical Aspects .....

**Leslie J. De Groot** (Department of Cellular and Molecular Biology, University of Rhode Island, USA)

### 17:15 – 17:30 Memorial Lecture 2

Chair: **Yuji Hiromatsu** (Division of Endocrinology and Metabolism, Department of Medicine, Kurume  
University School of Medicine, Japan)

Hashimoto’s thyroiditis and postpartum autoimmune disease .....

**Nobuyuki Amino** (Kuma Hospital, Kobe, Japan)

**17:30 – 17:50 Special Message**

1. **Ivan M. Roitt** (Middlesex University, UK) .....
2. **Hugh O. McDevitt** (Stanford University School of Medicine, USA) .....

**17:50 – 18:05 Memorial Lecture 3**

Chair: **Yasunobu Yoshikai** (Medical Institute of Bioregulation, Kyushu University, Japan)

Can HLA Control the Clinical Difference, Overlap and Conversion between Hashimoto Thyroiditis and Graves Disease? .....

**Takehiko Sasazuki** (Institute for Advanced Study, Kyushu University, Japan)

**18:05 – 18:20 Memorial Lecture 4**

Chair: **Yasunobu Yoshikai** (Medical Institute of Bioregulation, Kyushu University, Japan)

Regulatory T cells in autoimmune disease .....

**Shimon Sakaguchi** (Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center, Osaka University, Japan)

**18:20 – 18:50 Memorial Lecture 5**

Chair: **Takehiko Sasazuki** (Institute for Advanced Study, Kyushu University, Japan)

IL-6: All the way to treatment of autoimmune diseases .....

**Tadamitsu Kishimoto** (Immunology Frontier Research Center, Osaka University, Japan)

**18:50 Closing Remarks**

**Jyoichi Kumazawa** (Former Chairman, Alumni Association, Faculty of Medicine Kyushu University, Japan)

# International Symposium II

**Dec. 2<sup>nd</sup>**

## ACROS Fukuoka 4F International Conference Hall

**9:00 – 9:10      Opening Remarks**

1. **Takehiko Sasazuki** (Institute for Advanced Study, Kyushu University, Japan)
2. **Fumimaro Takaku** (Chairman of Japan Intractable Diseases Research Foundation, Japan)
3. **Yoshiyuki Sodeyama** (Scientific Research Aid Division, Research Promotion Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan)

**9:10 – 11:40      Session I      HLA - gene, structure and evolution**

Chairs: **Katsushi Tokunaga** (Department of Human Genetics, Graduate School of Medicine, University of Tokyo, Tokyo, Japan)

**Walter Bodmer** (Weatherall Institute of Molecular Medicine and Department of Oncology, University of Oxford, UK)

- 9:10 – 9:35      1      Analyses on HLA genome diversity using next generation sequencer .....  
**Takashi Shiina/Hidetoshi Inoko** (Department of Molecular Life Science Tokai University School of Medicine, Japan)
- 9:35 – 10:05      2      The role of non-protein coding HLA elements in immune health.....  
**Colm S. O' hUigin** (Laboratory of Experimental Immunology, Cancer and Inflammation Program Frederick National Laboratory for Cancer Research, SAIC-Frederick Maryland, USA)
- 10:05 – 10:30      3      Structural basis for the recognition of the peptide from Cry j 1, the major allergen of Japanese cedar pollen, by the human class II MHC protein HLA-DP5 .....  
**Mikako Shirouzu/Shigeyuki Yokoyama** (Systems and Structural Biology Research Team, RIKEN, Japan)

**10:30 – 10:45      Break**

- 10:45 – 11:10      4      Parasite-driven evolution of HLA peptide binding repertoires .....  
**Yoko Satta** (Department of Evolutionary Studies of Biosystems, The Graduate University for Advanced Studies (Sokendai), Japan)
- 11:10 – 11:40      5      Crystal Structure of the Complex of HLA-DM and HLA-DR1 .....  
**Kai W. Wucherpfennig** (Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA)

**11:40 – 13:00      Lunch Break**



**Dec. 3<sup>rd</sup>**

## **ACROS Fukuoka 4F International Conference Hall**

### **9:00 – 10:55    Session IV    HLA and T cell recognition**

Chairs: **Kai W. Wucherpfennig** (Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA)

**Kazuhiko Yamamoto** (Department of Allergy and Rheumatology, Graduate School of Medicine, the University of Tokyo, Japan)

9:00 – 9:25    1    Cancer Immunotherapy by Using Ideal Tumor-Associated Antigenic Peptides and Human iPS Cell-Derived Dendritic Cells .....

**Yasuharu Nishimura** (Department of Immunogenetics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan)

9:25 – 9:55    2    Immune self-reactivity triggered by drug-modified Human Leukocyte Antigen-peptide repertoire .....

**James McCluskey** (Department of Microbiology and Immunology, The University of Melbourne, Australia)

9:55 – 10:25    3    In Pursuit of Immune Tolerance .....

**Gerald T. Nepom** (Benaroya Research Institute Immune Tolerance Network Seattle, USA)

10:25 – 10:55    4    The Onset of Systems Immunology .....

**Philippe Kourilsky** (Honorary Professor at the Collège de France, France)

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**10:55 – 11:10    Break**

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### **11:10 – 14:05    Session V    Regulation of T cell recognition and repertoire selection**

Chairs: **Günter J. Hämmerling** (German Cancer Research Center (DKFZ), Division Molecular Immunology, Germany)

**Yoshinori Fukui** (Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan)

11:10 – 11:35    1    T Cell Signaling, Regulatory T Cells, and Autoimmune Disease .....

**Shimon Sakaguchi** (Department of Experimental Immunology, WPI Immunology Frontier Research Center, Osaka University, Japan)

11:35 – 12:00    2    Thymic microenvironments for T cell repertoire formation .....

**Yosuke Takahama** (Institute for Genome Research, University of Tokushima, Japan)

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**12:00 – 13:15    Lunch Break**

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13:15 – 13:40    3    Physiopathological Roles of The Vertebrate-Specific Immuno-Type Proteasomes .....

**Keiji Tanaka** (Tokyo Metropolitan Institute of Medical Science, Japan)

13:40 – 14:05    4    Aire-Dependent Organization of Thymic Microenvironment for the Establishment of Self Tolerance .....

**Mitsuru Matsumoto** (Division of Molecular Immunology, Institute for Enzyme Research, University of Tokushima, Tokushima, Japan)

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**14:05 – 14:20    Break**

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**14:20 – 16:45    Session VI    Molecular regulation of immune responses**

Chairs: **Xiaoxia Li** (Department of Immunology Cleveland Clinic Foundation, USA)

**Yosuke Takahama** (Institute for Genome Research, University of Tokushima, Japan)

- 14:20 – 14:45    1    The zinc finger domain containing nuclease, Regunase-1/Zc3h12a controls T cell activation .....  
**Shizuo Akira** (WPI Immunology Frontier Research Center (IFReC), Osaka University, Japan)
- 14:45 – 15:10    2    Negative Regulation of Autoantibody Production by A B cell Inhibitory Receptor, Fcγ RIIB .....  
**Toshiyuki Takai** (Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, Sendai, Japan)

**15:10 – 15:25    Break**

- 15:25 – 15:50    3    Immune Responses through C-type Lectin Receptors for Endo/Exogenous Adjuvants .....  
**Sho Yamasaki** (Division of Molecular Immunology, Research Center for Infectious Diseases, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan)
- 15:50 – 16:15    4    Immune Regulatory Functions of DOCK Family Proteins in Health and Disease .....  
**Yoshinori Fukui** (Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan)
- 16:15 – 16:45    5    Control of T cell Tolerance .....  
**Diane J. Mathis** (Division of Immunology, Department of Microbiology and Immunology, Harvard Medical School, USA)



**Dec. 4<sup>th</sup>**

## **ACROS Fukuoka 4F International Conference Hall**

### **9:00 – 11:50    Session VII    Cellular regulation of immune responses**

Chairs: **Philippe Kourilsky** (Honorary Professor at the Collège de France, France)

**Sho Yamasaki** (Division of Molecular Immunology, Research Center for Infectious Diseases,  
Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan)

- 9:00 – 9:25    1    Emerging roles for basophils in immunity: a neglected minority gains new respect .....
- Hajime Karasuyama** (Department of Immune Regulation, Tokyo Medical and Dental University,  
Graduate School, Tokyo, Japan)
- 9:25 – 9:50    2    Regulation of homeostatic and pathological inflammation by mucosal mast cells .....
- Hiroshi Kiyono** (Division of Mucosal Immunology, Department of Microbiology and Immunology, International research and  
Development Center for Mucosal Vaccine, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan)
- 9:50 – 10:15    3    Fas-FasL dependent autoantibody suppression by Egr2 expressing CD4<sup>+</sup>CD25<sup>-</sup>LAG3<sup>+</sup> T cells .....
- Kazuhiko Yamamoto** (Department of Allergy and Rheumatology, Graduate School of Medicine,  
the University of Tokyo, Japan)

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### **10:15 – 10:30    Break**

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- 10:30 – 10:55    4    NKT Cell Subsets – Their Functional and Developmental Heterogeneity – .....
- Masaru Taniguchi** (Laboratory for Immune Regulation, RIKEN Research Center for Allergy and Immunology, Japan)
- 10:55 – 11:20    5    Naturally Occurring IL-17A-Producing Gamma/Delta T Cells .....
- Yasunobu Yoshikai** (Division of Bioregulation, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan)
- 11:20 – 11:50    6    IL-17 signaling in autoimmunity .....
- Xiaoxia Li** (Department of Immunology Cleveland Clinic Foundation, USA)

### **11:50 – 11:55    Closing Remarks**

**Hiroyuki Sasaki** (Medical Institute of Bioregulation Kyushu University, Japan)