

ALLERGY AND OTHER HYPERSENSITIVITIES

5791 B Cell–Intrinsic MyD88 Signaling Is Essential for IgE Responses in Lungs Exposed to Pollen Allergens
Kazufumi Matsushita and Tomohiro Yoshimoto

5801 IgG4 and IgE Transcripts in Childhood Allergic Asthma Reflect Divergent Antigen-Driven Selection
Tobias Rogosch, Sebastian Kerzel, Friederike Dey, Johanna-Joshipha Wagner, Zhixin Zhang, Rolf F. Maier, and Michael Zemlin

ANTIGEN RECOGNITION AND RESPONSES

5809 Polarized Granzyme Release Is Required for Antigen-Driven Transendothelial Migration of Human
Effector Memory CD4 T Cells
Thomas D. Manes and Jordan S. Pober

5816 Analysis of Relationships between Peptide/MHC Structural Features and Naive T Cell Frequency in
Humans
Jean-Baptiste Reiser, François Legoux, Stéphanie Gras, Eric Trudel, Anne Chouquet, Alexandra Léger, Madalen Le Gorrec, Paul Machillo, Marc Bonneville, Xavier Saulquin, and Dominique Houset

AUTOIMMUNITY

5835 A Deficiency in the Prostaglandin D2 Receptor CRTH2 Exacerbates Adjuvant-Induced Joint Inflammation
Yoshiki Tsubosaka, Tatsumi Nakamura, Hiroaki Hirai, Masatoshi Hori, Masataka Nakamura, Hiroshi Ozaki, and Takahisa Murata

5841 SLAM–SAP Signaling Promotes Differentiation of IL-17–Producing T Cells and Progression of
Experimental Autoimmune Encephalomyelitis
Yu-Hsuan Huang, Kevin Tsai, Caixia Ma, Bruce A. Vallance, John J. Priatel, and Rusung Tan

CLINICAL AND HUMAN IMMUNOLOGY

5854 Delta-like 1–Mediated Notch Signaling Enhances the In Vitro Conversion of Human Memory
CD4 T Cells into FOXP3-Expressing Regulatory T Cells
Catarina Mota, Vania Nunes-Silva, Ana R. Pires, Paula Matoso, Rui M. M. Victorino, Ana E. Sousa, and Iris Caramalho

IMMUNE REGULATION

5863 Glucocorticoid-Induced Leucine Zipper Enhanced Expression in Dendritic Cells Is Sufficient To Drive
Regulatory T Cells Expansion In Vivo
Joseph Calmette, Mehdi Ellouze, Thi Tran, Soumaya Karaki, Emilie Ronin, Francis Capel, Marc Pallardy, Françoise Bachelier, Roman Krysziek, Dominique Emilie, Géraldine Schlecht-Louf, and Véronique Godot

5873 Diet-Induced Obesity Does Not Impact the Generation and Maintenance of Primary Memory CD8 T Cells
Shaniya H. Khan, Emily A. Hemann, Kevin L. Legge, Lyse A. Norian, and Vladimir P. Badovinac

5883 Pig Skin Includes Dendritic Cell Subsets Transcriptomically Related to Human CD1a and CD14 Dendritic
Cells Presenting Different Migrating Behaviors and T Cell Activation Capacities
Florian Marquet, Thi-Phong Vu Manh, Pauline Maïmounne, Jamila Elhmouzi-Younes, Céline Urien, Eduige Bougyon, Luc Jouneau, Michael Bourge, Gaëlle Simon, Angel Esquerda, Jérôme Leocard, Michel Bonneau, Marc Dalod, Isabelle Schwartz-Cornil, and Nicolas Bertho

5894 CD28–CD80 Interactions Control Regulatory T Cell Motility and Immunological Synapse Formation
Timothy J. Thauland, Yoshinobu Koguchi, Michael L. Dustin, and David C. Parker
A Novel Mechanism of B Cell–Mediated Immune Suppression through CD73 Expression and Adenosine Production
Hiroaki Kaku, Kai Fan Cheng, Yousef Al-Abed, and Thomas L. Rothstein

TCR Signaling Events Are Required for Maintaining CD4 Regulatory T Cell Numbers and Suppressive Capacities in the Periphery
Arnaud Delpoux, Philippe Yakonowsky, Aurélie Durand, Céline Charvet, Michael Valente, Arnaud Pommier, Nelly Bonilla, Bruno Martin, Cédric Auffray, and Bruno Lucas

Rictor Negatively Regulates High-Affinity Receptors for IgE-Induced Mast Cell Degranulation
Daniel Smrz, Glenn Cruse, Michael A. Beaven, Arnold Kirshenbaum, Dean D. Metcalfe, and Alasdair M. Gilfillan

Histone Deacetylase Inhibitors Upregulate B Cell microRNAs That Silence AID and Blimp-1 Expression for Epigenetic Modulation of Antibody and Autoantibody Responses
Clayton A. White, Egest J. Pone, Tonika Lam, Connie Tat, Ken L. Hayama, Guideng Li, Hong Zan, and Paolo Casali

IMMUNE SYSTEM DEVELOPMENT

Chemokine-Mediated B Cell Trafficking during Early Rabbit GALT Development
Shi-Kang Zhai, Veronica V. Volgina, Periannan Sethupathi, Katherine L. Knight, and Dennis K. Lanning

The Thymic Microenvironment Differentially Regulates Development and Trafficking of Invariant NKT Cell Sublineages
Michael B. Drennan, Srinath Govindarajan, Katelijne De Wilde, Susan M. Schlenner, Carl Ware, Sergei Nedospasov, Hans-Reimer Rodewald, and Dirk Elewaut

Gene Targeting RhoA Reveals Its Essential Role in Coordinating Mitochondrial Function and Thymocyte Development

A Signal Integration Model of Thymic Selection and Natural Regulatory T Cell Commitment
Sahamoddin Khailaie, Philippe A. Robert, Aras Toker, Jochen Huehn, and Michael Meyer-Hermann

Notch3 Activation Is Sufficient but Not Required for Inducing Human T-Lineage Specification
Els Waegemans, Inge Van de Walle, Jelle De Medts, Magda De Smedt, Tessa Kerre, Bart Vandekerckhove, Georges Leclercq, Tao Wang, Jean Plum, and Tom Taghon

Immature Recent Thymic Emigrants Are Eliminated by Complement
Fan-Chi Hsu, Michael J. Shapiro, Meibo W. Chen, Douglas C. McWilliams, Lauren M. Seaburg, Sarah N. Tangen, and Virginia Smith Shapiro

IMMUNOGENETICS

Definition of the Cattle Killer Cell Ig–like Receptor Gene Family: Comparison with Aurochs and Human Counterparts
Nicholas D. Sanderson, Paul J. Norman, Lisbeth A. Guethlein, Shirley A. Ellis, Christina Williams, Matthew Breen, Steven D. E. Park, David A. Mager, Farbod Babrzadeh, Andrew Warry, Mick Watson, Daniel G. Bradley, David E. MacHugh, Peter Parham, and John A. Hammond

IMMUNOTHERAPY AND VACCINES

The Specialized Proresolving Mediator 17-HDHA Enhances the Antibody-Mediated Immune Response against Influenza Virus: A New Class of Adjuvant?
Sesquile Ramon, Steven F. Baker, Julie M. Sahler, Nina Kim, Eric A. Feldspott, Charles N. Serhan, Luis Martínez-Sobrido, David J. Topham, and Richard P. Phipps

INFECTIOUS DISEASE AND HOST RESPONSE

CD4+ T Cell Epitopes of FlIC Conserved between Strains of Burkholderia: Implications for Vaccines against Melioidosis and Cepacia Complex in Cystic Fibrosis
**INNATE IMMUNITY AND INFLAMMATION**

6050 *Borrelia burgdorferi* Arthritis–Associated Locus Bbaa1 Regulates Lyme Arthritis and K/B×N Serum Transfer Arthritis through Intrinsic Control of Type I IFN Production

Ying Ma, Kenneth K. C. Bramwell, Robert B. Lochhead, Jackie K. Paquette, James F. Zachary, John H. Weis, Cory Teuscher, and Janis J. Weis

6061 Viral MHC Class I–like Molecule Allows Evasion of NK Cell Effector Responses In Vivo

Michal Pyzik, Anne A. Dumaine, Benoît Charbonneau, Nasima Fodil-Cornu, Stipan Jonjic, and Silvia M. Vidal

6070 Infiltrating Regulatory B Cells Control Neuroinflammation following Viral Brain Infection

Manohar B. Mural, Shuxian Hu, Scott J. Schachtele, and James R. Lokensgard

6081 Lipocalin 2 Impacts Selective Pressure on Bacterial Growth in the Bladder and Is Elevated in Women with Urinary Tract Infection


**MOLECULAR AND STRUCTURAL IMMUNOLOGY**

6103 Intestinal Expression of Fas and Fas Ligand Is Upregulated by Bacterial Signaling through TLR4 and TLR5, with Activation of Fas Modulating Intestinal TLR-Mediated Inflammation

Philana Fernandes, Charlotte O’Donnell, Caitriona Lyons, Jonathan Keane, Tim Regan, Stephen O’Brien, Padraig Fallon, Elizabeth Brint, and Aileen Houston

6114 PARP-1 Mediates LPS-Induced HMGB1 Release by Macrophages through Regulation of HMGB1 Acetylation

Zhiyong Yang, Li Li, Lijuan Chen, Weiwei Yuan, Liming Dong, Yushun Zhang, Heshui Wu, and Chunyou Wang

6124 STING-Mediated DNA Sensing Promotes Antitumor and Autoimmune Responses to Dying Cells

Jared Klarquist, Cassandra M. Henrie, Maria A. Lehn, Rachel A. Reboulet, Sonia Feau, and Edith M. Jaunsen

6135 Chloroquine Promotes IL-17 Production by CD4+ T Cells via p38-Dependent IL-23 Release by Monocyte-Derived Langerhans-like Cells

André Said, Stephanie Bock, Trim Lajqi, Gerrit Müller, and Günther Weindl

6144 Nonenzymatic Conversion of ADP-Ribosylated Arginines to Ornithine Alters the Biological Activities of Human Neutrophil Peptide-1

Linda A. Stevens, Joseph T. Barbieri, Grzegorz Piszczek, Amy N. Otuonye, Rodney L. Levine, Gang Zheng, and Joel Moss

**MUCOSAL IMMUNOLOGY**

6152 CCAAT/Enhancer-Binding Protein α Negatively Regulates IFN-γ Expression in T Cells

Shinya Tanaka, Kentaro Tanaka, Fay Magnusson, Yennieok Chung, Gustavo J. Martinez, Yi-hong Wang, Roza I. Nuriev, Tomohiro Kurosaki, and Chen Dong

6161 The Extracellular Adherence Protein from *Staphylococcus aureus* Inhibits the Classical and Lectin Pathways of Complement by Blocking Formation of the C3 Proconvertase


6172 Antibody to the gp120 V1/V2 Loops and CD4+ and CD8+ T Cell Responses in Protection from SIVmac251 Vaginal Acquisition and Persistent Viremia

The Absence or Overexpression of IL-15 Drastically Alters Breast Cancer Metastasis via Effects on NK Cells, CD4 T Cells, and Macrophages
Amy Gillgrass, Navkiran Gill, Artem Babian, and Ali A. Ashkar

NK Cells with KIR2DS2 Immunogenotype Have a Functional Activation Advantage To Efficiently Kill Glioblastoma and Prolong Animal Survival
Andrea Gras Navarro, Justyna Kmiecik, Lina Leiss, Mateusz Zelkowski, Agnete Engelsen, Øystein Bruserud, Jacques Zimmer, Per Øyvind Enger, and Martha Chekenya

Correction: Transcriptional Characterization of the T Cell Population within the Salmonid Interbranchial Lymphoid Tissue
Ida Bergva Aas, Lars Austbø, Melanie König, Mohasina Syed, Knut Falk, Ivar Hordvik, and Erling O. Koppang

Correction: Th17 Cells Contribute to Viral Replication in Coxsackievirus B3-Induced Acute Viral Myocarditis
Jing Yuan, Miao Yu, Qiong-Wen Lin, Ai-Lin Cao, Xian Yu, Ji-Hua Dong, Jing-Ping Wang, Jing-Hui Zhang, Min Wang, He-Ping Guo, Xiang Cheng, and Yu-Hua Liao

Correction: Human CD141+ Dendritic Cells Induce CD4+ T Cells To Produce Type 2 Cytokines

AUTHOR INDEX

AD HOC REVIEWERS

AUTHOR INDEX TO VOLUME 193