This information is current as of April 25, 2022.
1973 IN THIS ISSUE

BRIEF REVIEWS

1975 Unique Human Tumor Antigens: Immunobiology and Use in Clinical Trials
Giorgio Parmiani, Annamaria De Filippo, Luisa Novellino, and Chiara Castelli

CUTTING EDGE

1981 Cutting Edge: The PI3K p110δ Is Required for Down-Regulation of RAG Expression in Immature B Cells
Miriam Llorian, Zania Stamatakis, Suan Hill, Martin Turner, and Inga-Lill Mårtensson

1986 Cutting Edge: Loss of TLR2, TLR4, and TLR5 on Langerhans Cells Abolishes Bacterial Recognition
Angelio M.G. van der Aar, Regien M. R. Sylva-Steenland, Jan D. Bos, Martien L. Kapenberg, Esther C. de Jong, and Marcel B. M. Teunissen

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

1991 Non-T Cell Activation Linker (NTAL) Negatively Regulates TREM-1/DAP12-Induced Inflammatory Cytokine Production in Myeloid Cells
Anja S. Tesarz, Sandra Weiler, Kai Zanzinger, Paola Angelisová, Václav Horejsí, and Adelheid Cerwenka

2000 Distinct Differentiation Potential of Blood Monocyte Subsets in the Lung
Limor Landsman, Chen Varol, and Steffen Jung

2008 Selective Thymus Settling Regulated by Cytokine and Chemokine Receptors
Benjamin A. Schwarz, Arivazhagan Sambandam, Ivan Maillard, Benjamin C. Harman, Paul E. Love, and Avinash Bhandoola

2018 IL-2 Is Essential for TGF-β to Convert Naive CD4+CD25− Cells to CD25+Foxp3+ Regulatory T Cells and for Expansion of These Cells
Song Guo Zheng, Juhua Wang, Pu Wang, J. Dixon Gray, and David A. Horwitz

2028 Imatinib Mesylate Inhibits Antigen-Specific Memory CD8 T Cell Responses In Vivo
Parisa Sinai, Rance E. Berg, J. Marshall Haynie, Merrill J. Egorin, Robert L. Ittara, Jr., and James Forman
TLR Signaling Fine-Tunes Anti-Influenza B Cell Responses without Regulating Effector T Cell Responses
Alex K. Heer, Abdijapar Shamshiev, Alena Dondu, Satoshi Uematsu, Shizuo Akira, Manfred Kopf, and Benjamin J. Marsland

AID−/− μs−/− Mice Are Agammaglobulinemic and Fail to Maintain B220−CD138+ Plasma Cells
Kaori Kumazaki, Boaz Tirosh, René Maehr, Marianne Boes, Tasuku Honjo, and Hidde L. Ploegh

Suppression of the Effector Phase of Inflammatory Arthritis by Double-Stranded RNA Is Mediated by Type I IFNs
Anna Yarilina, Edward DiCarlo, and Lionel B. Ivashkiv

Peripheral Tolerance Induction Using Ethylenecarbodiimide-Fixed APCs Uses both Direct and Indirect Mechanisms of Antigen Presentation for Prevention of Experimental Autoimmune Encephalomyelitis
Danielle M. Turley and Stephen D. Miller

Abrogation of Antibody-Mediated Allograft Rejection by Regulatory CD4 T Cells with Indirect Allospecificity

The Effects of IL-20 Subfamily Cytokines on Reconstituted Human Epidermis Suggest Potential Roles in Cutaneous Innate Defense and Pathogenic Adaptive Immunity in Psoriasis
Susan M. Sa, Patricia A. Valdez, Jianfeng Wu, Kenneth Jung, Fiona Zhong, Linda Hall, Ian Kasman, Jane Winer, Zora Modrusan, Dimitry M. Danilenko, and Wenjun Ouyang

The Role of Endoplasmic Reticulum-Associated Aminopeptidase 1 in Immunity to Infection and in Cross-Presentation
Elke Firat, Loredana Saveane, Peter Aichele, Peter Staeheli, Jisen Huai, Simone Gaedicke, Ahmed Nil, Gilles Besin, Benoît Kanzler, Peter van Endert, and Gabriele Niedermann

Epitope-Dependent Effect of Anti-Murine TIM-1 Monoclonal Antibodies on T Cell Activity and Lung Immune Responses
Irene D. Sizing, Véronique Bailly, Patricia McCoon, Wenjie Chang, Sambasiva Rao, Lourdes Pablo, Rachel Rennard, Meghan Walsh, Zhifang Li, Mohammad Zafari, Max Dobles, Leticia Tarilonte, Steven Miklasz, Gerard Majateau, Kevin Godbout, Martin L. Scott, and Paul D. Rentier

Dendritic Cells Sensitize TCRs through Self-MHC-Mediated Src Family Kinase Activation
Paul Meraner, Václav Horejši, Alois Wolpl, Gottfried F. Fischer, Georg Stingl, and Dieter Maurer

TNF Receptor-Associated Factor 2-Dependent Canonical Pathway Is Crucial for the Development of Peyer’s Patches
Jiang-Hu Piao, Hisahiro Yoshida, Wen-Chen Yeh, Takahiro Doi, Xin Xue, Hideo Yagita, Ko Okumura, and Hiroyasu Nakano

CXC Chemokine Ligand 9/Monokine Induced by IFN-γ Production by Tumor Cells Is Critical for T Cell-Mediated Suppression of Cutaneous Tumors
Anton V. Gorbachev, Hirohito Kohayashi, Daisuke Kudo, Charles S. Tannenbaum, James H. Finke, Suyu Shu, Joshua M. Farber, and Robert L. Fairchild

Fas Receptor Clustering and Involvement of the Death Receptor Pathway in Rituximab-Mediated Apoptosis with Concomitant Sensitization of Lymphoma B Cells to Fas-Induced Apoptosis
Alja J. Stel, Bram ten Cate, Susan Jacoby, Jan Willem Kok, Diana C. J. Spierings, Monica Dondorf, Wijnand Helfrich, Hanneke C. Kluin-Nelemans, Lou F. M. H. de Leij, Sebo Wisthoff, and Bart Jan Kroesen

p21CIP1/WAF1 Controls Proliferation of Activated/Memory T Cells and Affects Homeostasis and Memory T Cell Responses
Cristina F. Arias, André Ballesteros-Tato, María Isabel García, Juan Martin-Caballero, Juana M. Flores, Carlos Martinez-A, and Dimitrios Balomenos

A Novel Postpriming Regulatory Check Point of Effector/Memory T Cells Dictated through Antigen Density Threshold-Dependent Anergy
Kfir Oved, Omer Ziv, Jasmine Jacob-Hirsch, Roy Noy, Hila Novak, Oryan Makler, Denkberg Galit, Sinik Keren, Dina Segal, Chen Gefen-Dor, Ninette Amarglio, Gideon Rechavi, and Yoram Reiter
2318 Phenotypic and Functional Analysis of Immune CD8+ T Cell Responses Induced by a Single Injection of a HIV DNA Vaccine in Mice
Geraldine Arrode, Ramakrishna Hegde, Arunmani Mani, Yuhuai Jin, Yahia Chebloune, and Opendra Narayan

MOLECULAR AND STRUCTURAL IMMUNOLOGY

2328 Requirement for Phosphoinositide 3-Kinase p110δ Signaling in B Cell Antigen Receptor-Mediated Antigen Presentation
Monther M. Al-Alwan, Klaus Okkenhaug, Bart Vanhaesebroeck, Joel S. Hayflick, and Aaron J. Marshall

2336 The N Terminus of the Non-T Cell Activation Linker (NTAL) Confers Inhibitory Effects on Pre-B Cell Differentiation
Sebastian Herzog and Hasan Jumaa

IMMUNOGENETICS

2344 The Arthritis Severity Quantitative Trait Loci Cia4 and Cia6 Regulate Neutrophil Migration into Inflammatory Sites and Levels of TNF-α and Nitric Oxide
Tereina Laragione, Nuriza C. Yarlett, Max Brenner, Adriana Mello, Barbara Sherry, Edmund J. Miller, Christine N. Metz, and Périco S. Gulko

2352 Genetic Dissection of Spontaneous Autoimmunity Driven by 129-Derived Chromosome 1 Loci When Expressed on C57BL/6 Mice
Francesco Carlucci, Josefina Cortes-Hernandez, Liliane Fossati-Jimack, Anne E. Bygrave, Mark J. Walport, Timothy J. Vye, H. Terence Cook, and Marina Botto

HOST DEFENSE

2361 Insect Baculoviruses Strongly Potentiate Adaptive Immune Responses by Inducing Type I IFN
Sandra Hervas-Stubbs, Paloma Rueda, Lissette Lopez, and Claude Leclerc

2370 Mucosal HIV-1 Pox Virus Prime-Boost Immunization Induces High-Avidity CD8+ T Cells with Regime-Dependent Cytokine/Granzyme B Profiles
Charani Ranasinghe, Stephen J. Turner, Craig McArthur, Duncan B. Sutherland, Jee-Hye Kim, Peter C. Doherty, and Ian A. Ramsay

2380 RICK/RIP2 Mediates Innate Immune Responses Induced through Nod1 and Nod2 but Not TLRs
Jong-Hwan Park, Yun-Gi Kim, Christine McDonald, Thirumala-Devi Kanneganti, Mizuho Hasegawa, Mathilde Body-Malapel, Naohiro Inohara, and Gabriel Núñez

2387 Mucosal Luminal Manipulation of T Cell Geography Switches on Protective Efficacy by Otherwise Ineffective Parenteral Genetic Immunization
Michael Santosuosso, Sarah McCormick, Elizabeth Roediger, Xizhong Zhang, Anna Zganiacz, Brian D. Lichty, and Zhen Xing

2396 Rapid Clonal Expansion and Prolonged Maintenance of Memory CD8+ T Cells of the Effector (CD44highCD62Llow) and Central (CD44highCD62Lhigh) Phenotype by an Archaeosome Adjuvant Independent of TLR2
Lakshmi Krishnan, Komal Gurnani, Chantal J. Dicaire, Henk van Faassen, Ahmed Zafer, Carsten J. Kirschning, Subash Sad, and G. Dennis Sprott

2407 Expression of the p60 Autolysin Enhances NK Cell Activation and Is Required for Listeria monocytogenes Expansion in IFN-γ-Responsive Mice
Jessica Humann, Ryan Bjordahl, Karl Andreasen, and Laurel L. Lenz

2415 TLR9 Signaling in B Cells Determines Class Switch Recombination to IgG2a
Andrea Jegerlehner, Patrik Maurer, Juliana Bessa, Heather J. Hinton, Manfred Kapf, and Martin F. Bachmann

2421 Heat Shock Protein 27 Regulates Neutrophil Chemotaxis and Exocytosis through Two Independent Mechanisms
2429 Fas-Associated Death Domain-Containing Protein-Mediated Antiviral Innate Immune Signaling Involves the Regulation of Irf7
Siddharth Balachandran, Thiagarajan Venkataraman, Paul B. Fisher, and Glen N. Barber

2440 PU.1 Redirects Adenovirus to Lysosomes in Alveolar Macrophages, Uncoupling Internalization from Infection
Brenna Carey, Margaret K. Staude, Dana Bonaminio, Johannes C. M. van der Loo, and Bruce C. Trapnell

2448 Evidence for Phagocytosis of Influenza Virus-Infected, Apoptotic Cells by Neutrophils and Macrophages in Mice
Yumi Hashimoto, Takeshi Moki, Takenori Takizawa, Akiko Shiratsuchi, and Yoshinobu Nakanishi

INFLAMMATION

2458 FTY720 Ameliorates Th1-Mediated Colitis in Mice by Directly Affecting the Functional Activity of CD4+ CD25+ Regulatory T Cells
Carolin Daniel, Nico Sartory, Nadine Zahn, Gerd Geisslinger, Heinfried H. Radeke, and Juergen M. Stein

2469 CD44 Is a Negative Regulator of Acute Pulmonary Inflammation and Lipopolysaccharide-TLR Signaling in Mouse Macrophages
Juirong Liang, Dianhua Jiang, Jason Griffith, Shuang Yu, Juan Fan, Xiaojian Zhao, Richard Bucala, and Paul W. Noble

2476 New Animal Model of Shigellosis in the Guinea Pig: Its Usefulness for Protective Efficacy Studies
Doo-Hee Shim, Toshihiko Suzuki, Sun-Young Chang, Sung-Moo Park, Philippe J. Sansonetti, Chihiro Sasakawa, and Mi-Na Kwon

2483 Receptor for Advanced Glycation Endproducts Mediates Neutrophil Migration across Intestinal Epithelium
Ke Zen, Celia X.-J. Chen, Yi-Tien Chen, Rosemarie Wilton, and Yuan Liu

2491 Regulation of Th2 Cytokine Genes by p38 MAPK-Mediated Phosphorylation of GATA-3
Kittipong Maneerobtsanas, Yao Xin, Kazuhiro Ito, Elen Jazrawi, Kang-Yun Lee, Omar S. Usmani, Peter J. Barnes, and Ian M. Adcock

2499 CD43 Collaborates with P-Selectin Glycoprotein Ligand-1 to Mediate E-Selectin-Dependent T Cell Migration into Inflamed Skin
Masanori Matsumoto, Akiko Shigeta, Yuko Furukawa, Toshiyuki Tanaka, Masayuki Miyasaka, and Takako Hirata

2507 Simvastatin Potentiates TNF-α-Induced Apoptosis through the Down-Regulation of NF-κB-Dependent Antiaptoptotic Gene Products: Role of IkBα Kinase and TGF-β-Activated Kinase-1
Kwang Seok Ahn, Gautam Sethi, and Bharat B. Aggarwal

2517 Glucocorticoid Conditioning of Myeloid Progenitors Enhances TLR4 Signaling via Negative Regulation of the Phosphatidylinositol 3-Kinase-Akt Pathway
Tian Y. Zhang and Raymond A. Daynes

2527 K-ras Is Critical for Modulating Multiple c-kit-Mediated Cellular Functions in Wild-Type and Nf1+/- Mast Cells
Walid F. Khalef, Feng-Chun Yang, Shi Chen, Hilary White, Waylan Bessler, David A. Ingram, and D. Wade Clapp

2535 IgE Modulates Neutrophil Survival in Asthma: Role of Mitochondrial Pathway
Arash Shoja Saffar, Martin P. Alphonse, Lianyu Shan, Kent T. HayGlass, F. Estelle R. Simons, and Abdelilah Sossi Gounni

2542 Signaling in Lipopolysaccharide-Induced Stabilization of Formyl Peptide Receptor 1 mRNA in Mouse Peritoneal Macrophages
Palash Mandal and Thomas Hamilton

2549 Selective Activation of Fyn/PI3K and p38 MAPK Regulates IL-4 Production in BMMC under Nontoxic Stress Condition
Barbara Frossi, Juan Rivera, Emilio Hirsch, and Carlo Pucillo
Differential Biological Role of CD3 Chains Revealed by Human Immunodeficiencies
Maria J. Recio, Miguel Angel Moreno-Pelayo, Sara S. Kilic, Alberto C. Guardo, Ozden Sanal, Luis M. Allende, Verónica Pérez-Flores, Angeles Mencia, Silvia Modanlio-Høybjør, Elena Seoane, and José R. Regueiro

A SmD Peptide Induces Better Antibody Responses to Other Proteins within the Small Nuclear Ribonucleoprotein Complex than to SmD Protein via Intermolecular Epitope Spreading
Umesh S. Deshmukh, Harini Bagavant, Davis Sim, Vyankatesh Pidiyar, and Shu Man Fu

Expansion of CD4⁺CD25⁺ and FOXP3⁺ Regulatory T Cells during the Follicular Phase of the Menstrual Cycle: Implications for Human Reproduction
Lourdes Arruvito, Marianela Sanz, Alison H. Banham, and Leonardo Fainboim

Deficient CD4⁺CD25⁺ High T Regulatory Cell Function in Patients with Active Systemic Lupus Erythematosus
Xavier Valencia, Cheryl Yarboro, Gabor Illei, and Peter E. Lipsky

IL-23 Is Critical in the Induction but Not in the Effector Phase of Experimental Autoimmune Encephalomyelitis
Paresh Thakker, Michael W. Leach, Wen Kuang, Stephen E. Benoist, John P. Leonard, and Suzana Marusic

Author Index

AAI Membership Application

AAI Trainee Membership Application