This information is current as of April 14, 2017.
In Vivo Administration of the Recombinant IL-7/Hepatocyte Growth Factor β Hybrid Cytokine Efficiently Restores Thymopoiesis and Naive T Cell Generation in Lethally Irradiated Mice after Syngeneic Bone Marrow Transplantation

Jingjun Jin, Irving Goldschneider, and Laijun Lai

The Src-Like Adaptor Protein Regulates GM-CSFR Signaling and Monocytic Dendritic Cell Maturation


Expression of Retinaldehyde Dehydrogenase Enzymes in Mucosal Dendritic Cells and Gut-Draining Lymph Node Stromal Cells Is Controlled by Dietary Vitamin A

Rosalie Molenaar, Marlene Knippenberg, Gera Gouverse, Brenda J. Olivier, Alex F. de Vos, Tom O’Toole, and Reina E. Mebius

Apurinic/Apyrimidinic Endonuclease 2 Is Necessary for Normal B Cell Development and Recovery of Lymphoid Progenitors after Chemotherapeutic Challenge

Jeroen E. J. Guikema, Rachel M. Gerstein, Erin K. Linehan, Erin K. Cloherty, Eric Evan-Browning, Daisuke Tiuchimoto, Yuaku Nakabeppe, and Carol E. Schroader

Critical Role of IRF-8 in Negative Regulation of TLR3 Expression by Src Homology 2 Domain-Containing Protein Tyrosine Phosphatase-2 Activity in Human Myeloid Dendritic Cells

Alessandra Fragale, Emilia Stellacci, Ramona Ileri, Anna Lisa Renoli, Angela Lanciotti, Edvige Perrotti, Iart Shytaj, Roberto Orsatti, Harshani R. Lawrence, Nicholas J. Lawrence, Jerry Wu, Michael Rehli, Keiko Ozato, and Angela Battistini

TLR1/TLR2 Agonist Induces Tumor Regression by Reciprocal Modulation of Effector and Regulator T Cells

Yi Zhang, Feifei Luo, Yuchan Cai, Nan Liu, Luman Wang, Damo Xu, and Yiwei Chu

DAP12 Promotes IRAK-M Expression and IL-10 Production by Liver Myeloid Dendritic Cells and Restrains Their T Cell Allostimulatory Ability

Tina L. Sumpter, Vignesh Packiam, Heath R. Turnquist, Antonino Castellaneta, Osamu Yoshida, and Angus W. Thomson

Elevated IL-7 Availability Does Not Account for T Cell Proliferation in Moderate Lymphopenia

Lisa Colleen Osborne, Daniel Timothy Patton, Jung Hee Seo, and Ninan Abraham

NF-κB1 Inhibits TLR-Induced IFN-β Production in Macrophages through TPL-2–Dependent ERK Activation

Huei-Ting Yang, Yanyan Wang, Xixing Zhao, Ezana Demissie, Stamatia Papoutsopoulou, Agnes Mambole, Anne O’Garra, Michal F. Tomczak, Susan E. Erdman, James G. Fox, Steven C. Ley, and Bruce H. Horwitz

Regulatory T Cell Properties of Chicken CD4+CD25+ Cells

Revathi Shanmugasundaram and Ramesh K. Selvaraj

Involvement of CD56brightCD11c+ Cells in IL-18–Mediated Expansion of Human γδ T Cells

Junko Tsuda, Wen Li, Hiromichi Yamanishi, Hideyuki Yamamoto, Akiko Okuda, Shuji Kubo, Zhifeng Ma, Nobuyuki Terada, Yoshinasa Tanaka, and Haruki Okamura

Mice Lacking Ly49E Show Normal NK Cell Development and Provide Evidence for Probabilistic Expression of Ly49E in NK Cells and T Cells


Visualizing the Role of Cbl-b in Control of Islet-Reactive CD4 T Cells and Susceptibility to Type 1 Diabetes

Gerard F. Hoeye, Eleanor Flening, Mehmet Yabas, Charis Teh, John A. Altin, Katrina Randall, Christine B. F. Thien, Wallace Y. Langdon, and Christopher C. Goodnow

Limiting the Amount and Duration of Antigen Exposure during Priming Increases Memory T Cell Requirement for Costimulation during Recall

Tamara L. Floyd, Brent H. Kechn, William H. Kitchens, Jennifer M. Robertson, Jennifer A. Cheeseman, Linda Stempora, Christian P. Larsen, and Mandy L. Ford
The Evolution and Regulation of the Mucosal Immune Complexity in the Basal Chordate Amphioxus
Shengfeng Huang, Xin Wang, Qingyu Fan, Lei Guo, Shaochun Yuan, Guangrui Huang, Huiqing Huang, Jun Li, Meiling Dong, Shangwu Chen, and Anlong Xu

Evolution of the Antigen-Specific CD8+ TCR Repertoire across the Life Span: Evidence for Clonal Homogenization of the Old TCR Repertoire
Brian D. Rudd, Vanessa Venturi, Miles P. Davenport, and Janko Nikolich-Zugich

Distinct Pathways Generate Peptides from Defective Ribosomal Products for CD8+ T Cell Immunosurveillance
Brian P. Dolan, Lily Li, Charles A. Veltri, Chris M. Ireland, Jack R. Bennink, and Jonathan W. Yewdell

Invertebrate Hematopoiesis: An Astakine-Dependent Novel Hematopoietic Factor
Xionglin Lin, Kenneth Söderhäll, and Irene Söderhäll

Presentation of Soluble Antigens to CD8+ T Cells by CpG Oligodeoxynucleotide-Primed Human Naive B Cells
Wei Jiang, Michael M. Lederman, Clifford V. Harding, and Scott F. Sieg

HCV Peptide (C5A), an Amphipathic α-Helical Peptide of Hepatitis Virus C, Is an Activator of N-Formyl Peptide Receptor in Human Phagocytes
Qing Lin, Dan Fang, Xinwei Hou, Yingying Le, Jiazhao Fang, Feng Wen, Wanghua Gong, Keqiang Chen, Ji Ming Wang, and Shao Bo Su

Bronchial Epithelial Cell-Derived Prostaglandin E2 Dampens the Reactivity of Dendritic Cells
Lotte M. Schmidt, Maria G. Belevi, Konrad A. Bode, Judith Bauer, Claudia Schmidt, Maria-Theresia Suchy, Dimitrios Tiskas, Justa Schwerer, Felix Lasitschka, Herman-Josef Gröne, and Alexander H. Delpke

CD4 and CD8 T Cell Immune Activation during Chronic HIV Infection: Roles of Homeostasis, HIV, Type I IFN, and IL-7
Marta Catalfamo, Christopher Wilhelm, Lueng Tcheung, Michael Proshen, Travis Friesen, Jung-Hyun Park, Joseph Adelsberger, Michael Baseler, Frank Maldarelli, Richard Davey, Gregg Roby, Catherine Rehm, and Clifford Lane

Hapten Application to the Skin Induces an Inflammatory Program Directing Hapten-Primed Effector CD8 T Cell Interaction with Hapten-Presenting Endothelial Cells
Danielle D. Kish, Nina Volokh, William M. Baldwin, III, and Robert L. Fairchild

Selenoprotein K Knockout Mice Exhibit Deficient Calcium Flux in Immune Cells and Impaired Immune Responses
Saguna Verma, FuKun W. Hoffmann, Mukesh Kumar, Zhi Huang, Kelsey Roe, Elizabeth Nguyen-Wu, Ann S. Hashimoto, and Peter R. Hoffmann

Essential Role of E3 Ubiquitin Ligase Activity in Cbl-b–Regulated T Cell Functions
Magdalena Paolino, Christine B. F. Thien, Thomas Gruber, Reinhard Hinterleitner, Gottfried Baier, Wallace Y. Langdon, and Josef M. Penninger

Presentation of Acquired Peptide-MHC Class II Ligands by CD4+ Regulatory T Cells or Helper Cells Differentially Regulates Antigen-Specific CD4+ T Cell Response
Gang Zhou, Zhi-Chun Ding, Jie Fu, and Hyam I. Levitsky

Rhesus Macaque Inhibitory and Activating KIR3D Interact with Mamu-A–Encoded Ligands
Cornelia Rosner, Philip H. Kruse, Meike Hermes, Nicole Otto, and Lutz Walter

Polypyrimidine Tract-Binding Protein Is Critical for the Turnover and Subcellular Distribution of CD40 Ligand mRNA in CD4+ T Cells
Rodrigo Matus-Nicodemos, Stefano Vavassori, Moraima Castro-Faix, Anibal Valentin-Acevedo, Karnail Singh, Valentina Marcelli, and Lori R. Covey

Marginal Zone B Cells Regulate Antigen Capture by Marginal Zone Macrophages
An Essential Role of STIM1, Orai1, and S100A8–A9 Proteins for Ca²⁺ Signaling and FcγR-Mediated Phagosomal Oxidative Activity

Natacha Steinckwich, Véronique Schenten, Chantal Melchior, Sabrina Bréchard, and Eric J. Tschirhart

Dendritic Cell-Specific ICAM-3–Grabbing Nonintegrin Expression on M2-Polarized and Tumor-Associated Macrophages Is Macrophage-CSF Dependent and Enhanced by Tumor-Derived IL-6 and IL-10

Angeles Dominguez-Soto, Elena Sierra-Filardi, Anaya Puig-Kröger, Blanca Pérez-Maceda, Fernando Gómez-Aguado, María Teresa Corcuer, Paloma Sánchez-Mateos, and Angel L. Corbi

A Role for Autophagic Protein Beclin 1 Early in Lymphocyte Development

Ivica Arsov, Adeola Adebayo, Martina Kucerova-Levisohn, Joanna Haye, Margaret MacNeil, F. Nina Papavasiliou, Zhenyu Yue, and Benjamin D. Ortiz

Proper Regrafting of Ig-Like Transcript 2 after Trogocytosis Allows a Functional Cell–Cell Transfer of Sensitivity

Kia-Yun Ho, Wang Yin, Julien Caumartin, Benoit Favier, Marina Daoura, Layale Yaghi, Edgardo D. Carosella, and Joel LeMasule

Chemokine-Containing Exosomes Are Released from Heat-Stressed Tumor Cells via Lipid Raft-Dependent Pathway and Act as Efficient Tumor Vaccine

Taoyong Chen, Jun Guo, Mingjin Yang, Xubai Zhu, and Xuetao Cao

CSF-1–Dependent Red Pulp Macrophages Regulate CD4 T Cell Responses

Daisuke Karutaki, Shigeyuki Kon, Kyeonghwa Bae, Koyu Ito, Yutaka Matsui, Youse Nakayama, Masashi Kanayama, Chihui Kimura, Yoshinori Narita, Takashi Nishimura, Kazuya Iwabuchi, Matthias Mack, Nico van Rooijen, Shimon Sakaguchi, Toshihiko Uede, and Junzo Morimoto

Regulatory T Cells More Effectively Suppress Th1-Induced Airway Inflammation Compared with Th2


Metabolic Stress Boosts Humoral Responses In Vivo Independently of Inflammasome and Inflammatory Reaction

Fabienne Andris, Sébastien Denanglaire, Erika Baus, Anthony Rongvaux, Jonathan Steuve, Richard A. Flavell, and Oberdan Leo

Thymic Stromal Lymphopoietin Interferes with Airway Tolerance by Suppressing the Generation of Antigen-Specific Regulatory T Cells

Lijing Lei, Yanlu Zhang, WeiGuo Yao, Mark H. Kaplan, and Baohua Zhou

IL-3 Attenuates Collagen-Induced Arthritis by Modulating the Development of Foxp3⁺ Regulatory T Cells


SLAP Deficiency Enhances Number and Function of Regulatory T Cells Preventing Chronic Autoimmune Arthritis in SKG Mice

Lisa K. Peterson, Laura A. Shaw, Anthony Joetham, Shimon Sakaguchi, Erwin W. Gelfand, and Leonard L. Dragone

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Basal and Antigen-Induced Exposure of the Proline-Rich Sequence in CD3ε

Javier de la Cruz, Travis Kruger, Christopher A. Parks, Robert L. Silge, Nicolai S. C. van Oers, Immanuel F. Luescher, Adam G. Schrum, and Diana Gil

Somatic Diversity in CDR3 Loops Allows Single V-Genes To Encode Innate Immunological Memories for Multiple Pathogens

Christy A. Thomson, Ken Q. Little, Donald C. Reason, and John W. Schrader

Characterization of Trex1 Induction by IFN-γ in Murine Macrophages

Maria Serra, Sonia-Vanina Forcales, Selma Pereira-Lopes, Jorge Lloberas, and Antonio Celada
Distinct Functions for the Glycans of Tapasin and Heavy Chains in the Assembly of MHC Class I Molecules
Syed Monem Rizvi, Natasha Del Cid, Lonnie Lybarger, and Malini Raghavan

**IMMUNOGENETICS**

A Single Nucleotide Polymorphism in NF-κB Inducing Kinase Is Associated with Mortality in Septic Shock
Simone A. Thair, Keith R. Walley, Taka-aki Nakada, Melissa K. McConelly, John H. Boyd, Hugh Wellman, and James A. Russell

The IL1RN Promoter rs4251961 Correlates with IL-1 Receptor Antagonist Concentrations in Human Infection and Is Differentially Regulated by GATA-1

Mismatch Repair Proteins MSH2, MLH1, and EXO1 Are Important for Class-Switch Recombination Events Occurring in B Cells That Lack Nonhomologous End Joining
Jennifer Eccleston, Catherine Yan, Karen Yuan, Frederick W. Alt, and Erik Selsing

**HOST DEFENSE**

Molecular and Functional Characterization of Mouse S5D-SRCRB: A New Group B Member of the Scavenger Receptor Cysteine-Rich Superfamily
Cristina Miro-Julía, Sandra Roselló, Vanessa G. Martínez, Dorte R. Fink, Cristina Escoda-Ferran, Olga Padilla, Citlali Vázquez-Echeverría, Paula Espinal-Marin, Cristina Puigades, Angeles García-Pardo, Jordi Vila, Carles Serra-Pagès, Uffe Holmskov, José Yelamos, and Francisco Lozano

Enhanced and Sustained CD8+ T Cell Responses with an Adenoviral Vector-Based Hepatitis C Virus Vaccine Encoding NS3 Linked to the MHC Class II Chaperone Protein Invariant Chain
Marianne Mikkelsen, Peter Johannes Holst, Jens Bukh, Allan Randrup Thomsen, and Jan Pratsogard Christensen

Absent Bactericidal Activity of Mouse Serum against Invasive African Nontyphoidal Salmonella Results from Impaired Complement Function but Not a Lack of Antibody

IL-33 and M2a Alveolar Macrophages Promote Lung Defense against the Atypical Fungal Pathogen Pneumocystis murina
Michael P. Nelson, Benjamin S. Christmann, Jessica L. Werner, Allison E. Metz, Jennifer L. Trevor, Clifford A. Lowell, and Chad Steele

Accelerated Dendritic Cell Differentiation from Migrating Ly6Clo Bone Marrow Monocytes in Early Dermal West Nile Virus Infection
Ariane M. Davison and Nicholas J. C. King

Pulmonary Surfactant Protein A Enhances Endolysosomal Trafficking in Alveolar Macrophages through Regulation of Rab7
Vicky Sender, Christina Moulakakis, and Cordula Stamme

The IκB Family Member Bcl-3 Coordinates the Pulmonary Defense against Klebsiella pneumoniae Infection
Frédéric Pène, Andrea Paun, Søren Ulrik Sønder, Nimisha Rökh, Honghan Wang, Estefania Claudio, and Ulrich Siebenlist

TLR3-Specific Double-Stranded RNA Oligonucleotide Adjuvants Induce Dendritic Cell Cross-Presentation, CTL Responses, and Antiviral Protection
Ivett Jelinek, Joshua N. Leonard, Graeme E. Price, Kevin N. Brown, Anna Meyer-Manlapat, Paul K. Goldsmith, Yan Wang, David Venzon, Suzanne L. Epstein, and David M. Segal
Suppressive Effect of Bacterial Polysaccharides on BAFF System Is Responsible for Their Poor Immunogenicity
Sunita Kanswal, Nora Kattension, Windy Allman, Kadriye Uslu, Milan S. Blake, and Mustafa Akkoyunlu

A2B Adenosine Receptor Blockade Enhances Macrophage-Mediated Bacterial Phagocytosis and Improves Polymicrobial Sepsis Survival in Mice
Bryan G. Belikoff, Stephen Hatfield, Peter Georgiev, Akio Ohta, Dmitriy Lukashev, Jon A. Buras, Daniel G. Remick, and Michail Sitkovsky

A Combination of Flt3 Ligand cDNA and CpG Oligodeoxynucleotide as Nasal Adjuvant Elicits Protective Secretory-IgA Immunity to *Streptococcus pneumoniae* in Aged Mice
Yoshiko Fukuyama, Janice D. King, Kouke Kataoka, Ryoki Kobayashi, Rebekah S. Gilbert, Susan K. Hollingshead, David E. Briles, and Kohtaro Fujishashi

Tribbles 3: A Novel Regulator of TLR2-Mediated Signaling in Response to *Helicobacter pylori* Lipopolysaccharide

INFLAMMATION

Chemokine Transcripts as Targets of the RNA-Binding Protein HuR in Human Airway Epithelium
Jinshui Fan, Faoud T. Ishmael, Xi Fang, Allen Myers, Chris Cheadle, Shau-Ku Huang, Ulus Atasoy, Myriam Gorospe, and Cristiana Stellato

Basic Calcium Phosphate Crystals Induce Monocyte/Macrophage IL-1β Secretion through the NLRP3 Inflammasome In Vitro
Borbála Pázár, Hang-Korang Ea, Sharmal Narayan, Laetitia Kolly, Nathalie Bagnoud, Véronique Chobaz, Thierry Roger, Frédéric Lioté, Alexander So, and Nathalie Busso

Proteasome Inhibition with Bortezomib Depletes Plasma Cells and Autoantibodies in Experimental Autoimmune Myasthenia Gravis
Alejandro M. Gomez, Kathleen Vrolix, Pilar Martínez-Martínez, Peter C. Molemaar, Marko Phernambucq, Eline van der Esch, Hans Duimel, Fons Verheyen, Reinhard E. Voll, Rudolf A. Manz, Marc H. De Baets, and Mario Losen

Absence of MyD88 Results in Enhanced TLR3-Dependent Phosphorylation of IRF3 and Increased IFN-β and RANTES Production
Jakub Siednienko, Thusitha Gajanayake, Katherine A. Fitzgerald, Paul Moynagh, and Sinéad M. Miggin

Mast Cells as Sensors of Cell Injury through IL-33 Recognition
Mattias Enoksson, Katarina Lyberg, Christine Möller-Westerberg, Padraic G. Fallon, Gunnar Nilsson, and Carolina Lunderius-Andersson

Differential Expression of NLRP3 among Hematopoietic Cells
Greta Guarda, Manuel Zenger, Amir S. Yazdi, Kate Schroder, Isabel Ferrero, Philippe Menu, Aubry Tardivel, Chantal Mattmann, and Jürg Tschopp

Apolipoprotein E and Peptide Mimetics Modulate Inflammation by Binding the SET Protein and Activating Protein Phosphatase 2A
Dale J. Christensen, Nobutaka Obikubo, Jessica Oddo, Michael J. Van Kanegan, Jessica Neil, Fengqiao Li, Carol A. Colton, and Michael P. Vitek

An Islet-Specific Pulse of TGF-β Abrogates CTL Function and Promotes β Cell Survival Independent of Foxp3+ T Cells
Maja Wallberg, F. Susan Wong, and E. Allison Green
Role of MicroRNA-214–Targeting Phosphatase and Tensin Homolog in Advanced Glycation End Product-Induced Apoptosis Delay in Monocytes
Li-Min Li, Dong-Xia Hou, Ya-Lan Guo, Jun-Wei Yang, Yuan Liu, Chen-Yu Zhang, and Ke Zen

TRIF Is a Critical Survival Factor in Viral Cardiomyopathy

STAT6 Expression in Multiple Cell Types Mediates the Cooperative Development of Allergic Airway Disease
Svetlana P. Chapoval, Preeta Dasgupta, Elizabeth P. Smith, Louis J. DeTolla, Michael M. Lipsky, Ann E. Kelly-Welch, and Ashak D. Kean

IL-33 Activates B1 Cells and Exacerbates Contact Sensitivity
Mousa Koma-Koma, Derek S. Gilchrist, Andrew N. J. McKenzie, Carl S. Goodyear, Damo Xu, and Foo Y. Liew

The Role of CD14 in Neutrophil Recruitment within the Liver Microcirculation during Endotoxemia
Erin F. McAvey, Braedon McDonald, Sean A. Parsons, Connie H. Wong, Regine Landmann, and Paul Kubes

Th17 Cells, Not IL-17γδ T Cells, Drive Arthritic Bone Destruction in Mice and Humans

IL-1F5, -F6, -F8, and -F9: A Novel IL-1 Family Signaling System That Is Active in Psoriasis and Promotes Keratinocyte Antimicrobial Peptide Expression
Andrew Johnston, Xianying Xing, Andrew M. Guzman, MaryBeth Riblett, Candace M. Loyd, Nicole L. Ward, Christian Wahn, Errol P. Prems, Frank Wang, Lisa E. Maier, Sewon Kang, John J. Voorhees, James T. Elder, and Johann E. Gudjonsson

Upregulated IL-7 Receptor α Expression on Colitogenic Memory CD4+ T Cells May Participate in the Development and Persistence of Chronic Colitis
Tamako Shinohara, Yauhiro Nemoto, Takanori Kanai, Kaori Kameyama, Ryuichi Okamoto, Kiichiro Tsuchiya, Tsuyoshi Nakamura, Teruji Totsuka, Koichi Ikuta, and Mamoru Watanabe

Two Unique Human Decidual Macrophage Populations
Brandy L. Houser, Tamara Tilburgs, Jonathan Hill, Matthew L. Nicotra, and Jack L. Strominger

B Lymphocytes Differentially Influence Acute and Chronic Allograft Rejection in Mice
David J. DiLillo, Robert Griffishe, Surya V. Seshan, Cynthia M. Magro, Phillip Ruiz, Thomas M. Coffman, and Thomas F. Tedder

CD8+ T Cells Induce Thyroid Epithelial Cell Hyperplasia and Fibrosis
Shiguang Yu, Yufang Fang, Tumenjargal Sharav, Gordon C. Sharp, and Helen Braley-Mullen

HLA-G Expression in Human Embryonic Stem Cells and Preimplantation Embryos
An Verloes, Hilde Van de Velde, Joel LeMaoult, Ileana Mateizel, Greet Caufoffman, Peter A. Horn, Edgardo D. Carosella, Paul Devroey, Marc De Waele, Vera Rebbmann, and Martine Vercammen

Th17 Cells Expressing KIR3DL2+ and Responsive to HLA-B27 Homodimers Are Increased in Ankylosing Spondylitis
Paul Bowes, Anna Ridley, Jacqueline Shaw, Antoni T. Chan, Isabel Wong-Baeza, Myle Fleming, Fraser Cummings, Andrew McMichael, and Simon Kollnberger

Retraction: The IL-15Rα Chain Signals Through Association with Syk in Human B Cells
Thomas Pohl, Hans Krause, Horst Dürrkop, Ralf Paus, and Silvia Bulfone-Paus
Retraction: Mast Cells Express Novel Functional IL-15 Receptor α Isoforms
Hans Krause, Ralf Paus, Zane Orinska, and Silvia Bulfone-Paus

Retraction: Extracellular ATP Induces Cytokine Expression and Apoptosis through P2X7 Receptor in Murine Mast Cells
Zane Orinska, Martina Hein, Frank Petersen, Silvia Bulfone-Paus, Lutz Thon, and Dieter Adam

CORRECTIONS

Correction: Anti-Inflammatory Role of the Murine Formyl-Peptide Receptor 2: Ligand-Specific Effects on Leukocyte Responses and Experimental Inflammation.
Neil Dufton, Robert Hannon, Vincenzo Brancaleone, Jesmond Dalli, Hetal B. Patel, Mohini Gray, Fulvio D’Acquisto, Julia C. Buckingham, Mauro Perretti, and Roderick J. Flower

AUTHOR INDEX