

2006 AAI Block Symposia Schedule

Note: All session rooms are at the Hynes Convention Center, Boston

FRIDAY, MAY 12, 2006 -- 12:30 PM

Room 306 Transcriptional Regulation of the Immune System -- Chairs: Barbara Nikolajczyk, Boston U; James Hagman, NJMRC

- 948 The IL-1 beta gene is transcribed from a poised promoter architecture in monocytes.
B. Nikolajczyk, M.D. Liang, Y. Zhang, D.C. McDevit and S. Marecki
- 1811 The CLR gene Monarch-1 is downregulated by the transcriptional repressor BLIMP-1 after TLR activation.
K.L. Williams, R. Sitcheran and J.P.-Y. Ting
- 982 Mechanisms of chromatin remodeling by early B cell factor.
K. Lukin, H. Gao, H. Maier, S.A. Fields, R. Ostraat, K.K. Ternyak, T. Ikawa, S.A. Shinton, R.R. Hardy, C. Murre and J. Hagman
- 394 Characterization of histone modifications associated with CIITA -dependent and -independent MHC class II expression.
S-D. Chou, W.J. Magner and T.B. Tomasi
- 1145 FOXP3 controls T regulatory function through cooperation with NFAT.
M. Sundrud, Y. Wu, M. Borde, V. Heissmeyer, M. Feuerer, A.D. Lapan, S.F. Ziegler, D. Mathis, C. Benoist, L. Chen and A. Rao
- 1194 Identification of probabilistic switches in the human KIR genes.
S.K. Anderson, S.M. Locke, G.E. Davies, P.W. Wright, R.J. Hanson and J.S. Miller
- 1570 Under IgH 3' regulatory region control, c-myc transgene becomes active at the immature B cell stage of B lineage development.
Y. Yan, S. Janz and L.A. Eckhardt
- 911 Pax5/BSAP interferes with p53 function and protects cells from DNA damage-induced apoptosis.
Z. Zhang, Z. Yu, S. Park, J. Zhou and X. Chen

Room 309 Antigen Presenting Cells -- Chairs: Susan Kovat, Beckman Res Inst; Laskshmi Ramachandran, Case Western Res U

- 1126 Antigen presentation defects in neonatal monocytes derived from cord blood.
L. Ramachandran, S. Chakravarti, T. Srivastava, J. Smialek, C.V. Harding and D.H. Canaday
- 949 Generation of myeloid dendritic cells from human embryonic stem cells.
I.I. Slukvin, M.A. Vodyanik, M.E. Gumenyuk, J.A. Thomson and K-D. Choi
- 444 Naive CD4 + T cell activation by antigen-presenting airway eosinophils.
H. Wang and P. Weller
- 1259 Estrogen selectively promotes the differentiation of dendritic cells with characteristics of Langerhans cells.
S. Kovats, A. Mao, V. Paharkova-Vatchkova, J. Hardy and M. Miller
- 1667 Characterization of a novel MHC class I compartment in human plasmacytoid dendritic cells.
T. Di Pucchio, S. Clayton, A. Palazzo, Y. Xue, J. Banchereau and J. Connolly
- 986 In vivo SMAC formation at immunological synapses.
C. Barcia, C.E. Thomas, J.F. Curtin, G.D. King, K. Wawrowsky, K. Kroeger, C. Liu, O. Boyer, J. Kupiec-Weglinsky, D. Klatzmann, M.G. Castro and P.R. Lowenstein
- 1278 Interstitial dendritic cells and Langerhans cells differentially prime humoral and cellular immunity.
E. Klechevsky, H. Ueno, R. Morita, Y. Reiter, F. Briere, K.A. Palucka and J. Banchereau

Room 311 Peripheral T Cell Activation and Homeostasis -- Chairs: Booki Min, Harvard U; Anjana Rao, Harvard U

- 1411 Autophagy is important for the growth factor-withdrawal cell death of T cells.
B. Lu, C. Li, E. Capan, D. Stolz and S. Watkins
- 149 Expansion of MHC class Ib restricted CD8 + T cells in the absence of MHC class Ia and MHC class II expression.
L.M. Reed-Loisel, D.C. Jay and P.E. Jensen
- 118 CD40 promotes homeostatic disruption of the auto-aggressor to regulatory T cell ratio in autoimmune prone NOD mice.
D.H. Wagner, Jr., G.M. Vaitaitis, D.M. Waid and N.D. Pennock
- 624 CD4 + T cell and granzyme B: death do us part?
V. Sharma and D. Ganea
- 1661 Bcl-2 is critical for antagonizing Bim and maintaining T cell homeostasis.
D. Hildeman, P. Tripathi and S. Wojciechowski
- 1540 Role of Krüppel-like factor 4 in T cell generation and function.
S.A. Golech, J. Klaewsongkram, J. Godlove and N-P. Weng
- 883 CD25 + regulatory T cells exist as naive and memory phenotype cells with different proliferative rates and inhibitory potency.
B. Min, S. Younes, J. Hu-Li, A. Thornton, K. Oh, J. Milner and W. Paul
- 761 Murine Eri-1 regulates siRNA and miRNA expression and RNAi function in activated T cells.
K.M. Ansel, V. Heissmeyer, A. Dararutana-Lapan, S. Monticelli and A. Rao

Room 312 Toll-Like Receptors: The Starting Gate for Pathogens -- Chairs: Elizabeth Hiltbold, Wake Forest U; Zhinan Yin, Yale U

- 371 TIRAP is a critical mediator of pulmonary host defense against *Klebsiella pneumoniae* but not *Pseudomonas aeruginosa*.
S. Jeyaseelan, S.K. Young and G.S. Worthen
- 353 Meningococcal porin PorB binds to TLR2 and requires TLR1 for signaling.
P. Massari, A. Visintin, J. Gunawardana, K.A. Halmen, C.A. King, D.T. Golenbock and L.M. Wetzler
- 913 Distinct structural determinants of TLR2 signaling by mycobacterial lipoproteins LprA and LprG.
N.D. Pecora, M.G. Drage, W. Boom and C.V. Harding
- 923 Dengue virus and influenza virus activation of plasmacytoid dendritic cells delineates key elements of Toll-like receptor 7 signaling.
J. Wang, P. Liu, E. Latz, D. Golenbock, R. Finberg and D. Libraty
- 1461 Interspecies competition through neutrophil-mediated opsonophagocytosis requires expression of the peptidoglycan receptor, Nod1.
E.S. Lysenko, A.J. Ratner, A.L. Nelson and J.N. Weiser
- 1482 *B. burgdorferi* regulates CD1 expression through TLR-mediated cytokine secretion.
K. Yakimchuk, C. Roura-Mir, T-Y. Cheng and D. Moody
- 1663 Distinct indirect pathways govern NK-cell activation by TLR-7 and TLR-8 agonists.
K.S. Gorski, J.P. Vasilakos, M.A. Tomai and S.S. Alkan
- 1807 Pattern recognition of a microbial metabolite by human V α 2V β 2 T cells.
C.T. Morita, C. Jin, H. Wang, A.M. Raker, G. Sarikonda, H.K. Lee, M.I. Samuelson, E. Märker-Hermann, L. Pasa-Tolic, E. Kolas-Nieves, J-L. Giner, T. Kuzuyama and K-J. Puan

Room 313 Therapeutic Modalities for Inflammatory Disease -- Chairs: Paul Kubes, U of Calgary; Sylvie Marleau, U of Montreal

- 226 Leukocyte recruitment to the inflamed glomerulus: a critical role for platelet-derived P-selectin in the absence of rolling.
M. Kuligowski, R. Kitching and M. Hickey
- 1417 Role of platelet TLR4 in platelet neutrophil interactions in response to LPS in vitro and in vivo.
S.R. Clark, S.A. Tavener, B. McDonald, A. Ma and P. Kubes
- 1697 Myelin basic protein triggers IL-8 and tryptase release from human umbilical cord blood-derived mast cells.
D. Kempuraj, B. Geiger, M. Tagen, W. Boucher and T.C. Theoharides
- 1056 Pivotal role of nuclear factor- κ B signaling in anti-CD40-induced liver injury in mice.
K. Kimura and K. Kuwata
- 1484 IL-4 promotes the formation of functional multi-nucleated giant cells by a STAT6-dependent mechanism.
J. Moreno, I. Mikailenko, M.M. Tondravi and A.D. Keegan
- 552 Different roles of sphingosine-1-phosphate in the regulation of mobility of mast cells and eosinophils in the peritoneal and intestinal compartments.
Y. Kurashima, J. Kunisawa, M. Gohda, M. Higuchi, M. Shimizu and H. Kiyono
- 790 Androstenediol immunomodulation improves survival in a severe trauma-hemorrhage shock model.
A.C. Marcu, K.E. Paccione, R.F. Diegelmann, W.R. Barbee, R.R. Ivatury, K.R. Ward and R.M. Loria
- 582 Potent anti-inflammatory, fully dissociative compound for glucocorticoid receptor-mediated gene regulation.
D. Elewaut, P. Dewint, K. De Bosscher, V. Gossye and G. Haegeman

SATURDAY, MAY 13 -- 8:00 AM

Room 210 Th1 Development and Function -- Chairs: Phil Scott, U Penn; Dragana Jankovic, NIAID

- 483 A distal conserved sequence element regulates IFN γ expression.
R.D. Hatton, R. Luther, L.E. Harrington, T. Wakefield and C.T. Weaver
- 686 A role for the immunological synapse in lineage commitment of CD4 lymphocytes.
R.A. Maldonado, D.J. Irvine and L.H. Glimcher
- 695 T-bet, but not STAT1, is required for Th1 cell polarization during *L. major* infection.
L.M. Johnson and P. Scott
- 1547 IL-10 production by conventional Th1 cells provides negative feedback regulation of IFN- γ secretion during anti-microbial responses.
D. Jankovic, M.C. Kullberg, P. Caspar and A. Sher
- 1477 TAta-5326, a novel IL-12/IL-23 inhibitor, selectively suppresses Th1 response.
Y. Wada, R. Lu, D. Zhou, J. Chu, T. Przewlaka, S. Zhang, L. Li, Y. Wu, J. Qin, V. Balasubramanyam, J. Barsoum and M. Ono
- 1360 IL-12 exerts its effects during the first 48 hours of T cell priming leading to stable conjugate formation and robust IFN- γ production.
C.J. Henry and E. Hiltbold

Room 302 Treatment of Autoimmune Disease -- Chairs: Habib Zhagouani, U of Missouri; Caroline Whitacre, OSU

- 206 An oral bacterial-based diarrheal vaccine is therapeutic for experimental autoimmune encephalomyelitis due to induced regulatory T cells.
J. Ochoa-Repáraz, C. Riccardi, A. Rynda, S. Jun, G. Callis and D.W. Pascual
- 515 A novel approach for modulating CD4 + CD25 + regulatory T cell generation and function through the nuclear hormone Receptor PPAR γ .
E.A. Wohlfert and R.B. Clark
- 569 Estriol produces regulatory dendritic cells that influence experimental autoimmune encephalomyelitis.
T.L. Papenfuss, N.D. Powell, M.A. McClain, I.E. Gienapp, T.M. Shawler and C.C. Whitacre
- 640 Antigen specific therapy reverses autoimmune diabetes along with islet regeneration.
R. Jain, D.M. Nast, R.D. Divekar, J.J. Bell, H-H. Lee, P. Yu, J.S. Ellis, J.C. Hardaway, C.L. Franklin and H. Zaghouani
- 956 Lipid microarrays identify key mediators of autoimmune brain inflammation.
J.L. Kanter, A.M. Johnson, P.P. Ho, E. Hur, S. Narayana, W.H. Robinson and L. Steinman
- 1148 Type 1 interferon- β treatment modulates innate regulatory Va24 + NKT cells in multiple sclerosis patients.
M. Falcone, S. Caielli and G. Gigli
- 1552 Recombinant, soluble CEACAM1-Fc fusion protein prevents progression of arthritis in mice.
R.S. Blumberg, M. Schlawinsky, G.C. Bulwin and N. Utku
- 1678 Analog peptides of type II collagen have unique signalling pathways.
L.K. Myers, B. Tang, J. Stuart and A. Kang

Room 304 Preventing Intolerance at Mucosal Surfaces -- Chairs: Robin Lorenz, UAB; Charlotte Kaetzel, U Kentucky

- 1617 Modulation of polymeric immunoglobulin receptor expression by intestinal bacteria through TLR signaling in vivo and in vitro.
M.E. Bruno, S.N. Thompson and C.S. Kaetzel
- 166 Sphingosine-1-phosphate mediated regulatory T cell induction in large intestinal epithelium.
J. Kunisawa, Y. Kurashima, M. Higuchi, M. Gohda, M. Shimizu and H. Kiyono
- 92 Innate immune signaling via MyD88 does not govern tolerance and immunity to orally administered antigens.
D.W. Smith, G. Prioult and C. Nagler
- 1603 Commensal bacteria trigger a full maturation program in dendritic cells and induce non-Tr1 /non-Th3 CD4 + regulatory T cells.
N. Baba, S. Samson-Villeger, R. Bourdet-Sicard, M. Rubio and M. Sarfati
- 1068 Peyer's patch NKT and CD4 + CD25 + T cells mediated mucosal regulatory network for the control of intestinal allergy.
N. Takayama, O. Igarashi, M-N. Kweon and H. Kiyono
- 484 Trophoblast shedding and its immunological consequences.
A. Erlebacher, K. Price, D. Zhang and L.H. Glimcher
- 620 Retinal pigment epithelial cells promote the generation of regulatory Foxp3 + Th3 cells via surface-bound TGF- β .
J. Vega, S. Masli, Y. Carrier and H.L. Weiner
- 1386 Progesterone increases the frequency of primed but uncommitted antigen-specific CD4 + T lymphocytes.
J.J. Kobie, P.R. Shah, J.A. Rebhahn and T.R. Mosmann

Room 310 Adhesion Mechanisms in Leukocyte Recruitment -- Chairs: Dan Bullard, UAB; Michael Hickey, Monash U

- 740 The alpha4 integrin-paxillin interaction in leukocyte trafficking during development and inflammation.
D.M. Rose, C.C. Feral, A.D. Sydlaske, P. Scott, M. Slepak and M.H. Ginsberg
- 1290 The involvement of Mac-1 and LFA-1 in leukocyte-endothelial cell interactions.
M. Phillipson, B. Heit and P. Kubes
- 1885 Intact human LFA-1 does not bind ICAM-4 or JAM-A.
B. Chaletzky, A. Nicholson-Weller, W. Gregory, I. Ghiran and L.B. Klickstein
- 1645 Genetics of *P. aeruginosa* biofilm resistance to the human host.
J.G. Leid, M.E. Shirtliff, M.R. Parsek, G.A. O'Toole and A.K. Jeffers
- 1628 Minimal role for PSGL-1 in colitis development.
D.B. O'Quinn, P.R. Mangan, C.T. Weaver, T.R. Schoeb and D.C. Bullard
- 233 T-cell-associated CD62L (L-selectin) is not required for the induction of chronic colitis.
D.V. Ostanin, K.L. Furr, D. D'souza, J. Hoffman, C.M. Brown, L. Gray and M.B. Grisham
- 413 L-selectin and intercellular adhesion molecule-1 regulate the development of concanavalin A-induced liver injury.
M. Hasegawa, A. Kawasuji, K. Takehara, S.A. Douglas, T.F. Tedder and S. Sato
- 223 Immune complexes alter cerebral microvessel permeability: roles of complement and leukocyte adhesion.
K.J. Lister and M.J. Hickey

Room 311 Cytokines/Chemokines: Th2 Signaling and Disease Associations -- Chairs: Fred Finkelman, U Cincinnati; Kathleen Sullivan, Children's Hosp Philadelphia

- 687 In vivo expression of soluble (s) IL-4 and IL-13 receptors.
M.V. Khodoun, J. Yang, T. Orekov, C. Potter and F. Finkelman
- 807 Intracellular interleukin-4 receptor α escorts IL-4 throughout secretion in eotaxin-stimulated eosinophils.
L.A. Spencer, R.C. Melo, S.A. Perez, S.P. Bafford, A.M. Dvorak and P.F. Weller
- 1448 IL-31R signaling: a putative negative regulatory pathway that limits type 2 inflammation.
J. Perrigoue, C. Zaph, E.J. Pearce, M. Goldschmidt, N. Ghilardi and D. Artis
- 1285 Restoration of IFN-alpha/beta-dependent STAT4 activation in murine CD4 + T cells.
J.D. Farrar, D.R. Tyler and L.A. Matthews
- 400 Regulation of epigenetic changes at the TNFalpha locus: developmental regulation and regulation in SLE.
K.E. Sullivan, A. Suriano, K. Dietzmann, B. Aramati, M. Bhatia and M. Petri
- 214 Differential epigenetic remodeling of IFN γ in mucosal inflammatory bowel disease.
R. Gonsky, R.L. Deem and S.R. Targan
- 47 Inhibitory role of CD19 in the progression of experimental autoimmune encephalomyelitis by regulating cytokine response.
T. Matsushita, M. Fujimoto, M. Hasegawa, K. Komura, K. Takehara, T.F. Tedder and S. Sato
- 1057 Pathogenic role of B cells in anti-CD40-induced necroinflammatory liver disease.
K. Kimura, K. Kuwata and F.V. Chisari

SATURDAY, MAY 13 -- 10:15 AM

Room 210 Cytokines and Pathogens -- Chairs: Dawn Nolt, U Pittsburgh; Miguel Stadecker, Tufts U

- 362 CD4 T cells producing pro-inflammatory IL-17 mediate high pathology in schistosomiasis.
L.I. Rutitzky and M.J. Stadecker
- 494 IL-2 limits IL-12-responsiveness of CD4 + T cells from *Leishmania amazonensis* -infected C3H mice in vitro.
A.E. Ramer and D.E. Jones
- 611 Type I interferons (IFN- α/β) confer unique effector functions to human CD4 + T cells.
L.A. Matthews, A.M. Davis and J.D. Farrar
- 767 Distinct mechanisms of interferon type I production by human dendritic cells infected by paramyxoviruses.
A. Guerrero-Plata, A. Casola, T. Liu, R. Pyles and R.P. Garofalo
- 837 Regulation of TNF- α production during murine cytomegalovirus infection by NK cell effector functions.
S-H. Lee, M. Dalod, J. Louten, K. Kim and C.A. Biron
- 1326 A requirement for signaling by TNF- α in IL-12 induced IFN- γ production during innate immune responses to bacterial infection.
K. Sun and D.W. Metzger
- 1632 Immune-mediated clearing of virally infected cells from the brain depends on CD4 and CD8 T cells, and is mediated by IFN- γ , perforin, and TNF- α : studies using transgenic knockout mice, adoptive transfer, and immune-suppression.
J.M. Zirger, C. Barcia, C. Liu, M.G. Castro and P.R. Lowenstein
- 1743 Early production of IL-17 in *M. tuberculosis* infection is mediated by non-CD4 + /CD8 + cells.
E.A. Lockhart, A.M. Green and J.L. Flynn

Room 304 Vaccines and Adjuvants -- Chairs: Kohtaro Fujihashi, UAB; Dennis Metzger, Albany Med Coll

- 1658 A novel method for delivery of regulatory molecules in the GI tract using *Bacillus anthracis* protective antigen.
P.N. Boyaka, A. Duverger, W-J. Tang, K. Fujihashi, J.R. McGhee and S.H. Leppla
- 1506 Humoral immunity to *Francisella tularensis* .
G. Kirimanjeswara and D. Metzger
- 1273 Mucosal response to the thymus independent antigens of *Haemophilus influenzae*.
A. Kulja, N.V. Boyko, E.S. Lysenko, J.N. Weiser and J.J. Cebra
- 919 IgA antibodies against the ricin A and B subunits protect epithelial cells from ricin intoxication.
N.J. Mantis, C. McGuinness, J. Yoder and G. Edwards
- 477 Enhanced mucosal IgA Ab responses in PIR-B knockout mice.
R. Kobayashi, H. Kubagawa, T. Takai, S. Sekine, J. McGhee and K. Fujihashi
- 306 M cell ligand induces tolerance to ovalbumin via IL-4 and TGF- β .
A. Rynda, M. Maddaloni, D. Mierzejewska and D.W. Pascual
- 885 Toll-like receptor agonist induction of thymic CD4 + , CD25 + T regulatory cells during vaccination.
J.W. Peacock, M. Ventevogel, B.F. Haynes and G.D. Sempowski
- 302 Suppression of arthritis by an oral bacterial-based diarrheal vaccine is mediated via enhanced function by Th2 and regulatory cells.
I. Kochetkova, T. Trunkle, G. Callis and D.W. Pascual

Room 306 Genetics of Autoimmune Disease -- Chairs: Ward Wakeland, Dallas; Vijay Kuchroo, Harvard U

- 901 The Sle2 lupus susceptibility locus inhibits chronic graft-versus-host reaction.
Z. Xu and L. Morel
- 1031 LRIr7 drives lupus in B6. Sle1^{yaa} mice.
S. Subramanian, Q-Z. Li, K.A. Belobrajdic and E.K. Wakeland
- 1082 The IL4R single nucleotide polymorphism I50V is associated with early erosive rheumatoid arthritis.
I. Prots, A. Skapenko, S. Mattyasovszky, C.L. Yoné, J.R. Kalden, P.E. Lipsky and H. Schulze-Koops
- 1101 Evidence that the Y-chromosome influences experimental allergic encephalomyelitis in male and female mice.
C. Teuscher, J.Y. Bunn, P.D. Fillmore, J.F. Zachary and E.P. Blankenhorn
- 1185 The autoimmune diabetes locus Idd9 regulates development of type 1 diabetes by affecting the homing of islet-specific T cells.
H. Waldner, R.A. Sobel, N. Price and V.K. Kuchroo
- 1287 Genetics of SLE susceptibility in NZM2328.C57L/Jc1.
C. Jiang, M.G. Brown, F. Gaskin, Y. Ge, K.S. Tung and S.M. Fu
- 1310 Influence of lupus susceptibility locus Sle1a on CD4 + CD25 + CD62L + Treg levels in the NZM 2410 lupus model.
C.M. Cuda, Y. Chen and L. Morel
- 1850 The SLAM/CD2 family mediates autoimmunity independent of SAP.
A.Y. Chan, C.M. Nguyen, J.M. Mooney, X-H. Tian, P.L. Schwartzberg, J.D. Schatzle and E.K. Wakeland

SATURDAY, MAY 13 -- 12:30 PM

Room 310 Peripheral B Cell Development, Activation and Homeostasis -- Chairs: David Allman, U Penn; Pam Witte, Loyola U, Chicago

- 192 Transitional B cells lose their receptor editing capacity but retain other positive and negative selection potentials.
H. Wang, C. Qi and S.H. Clarke
- 818 The role of CD19 in the development of the marginal zone.
Y. You and R.H. Carter
- 875 Characterization of murine splenic CD21^{hi} T2 B cell subsets.
S. Verma and T.J. Waldschmidt
- 1485 The effects of microenvironment and internal programming on plasma cell survival.
H.A. Minges Wols, Z. Yu, J.L. Palmer and P.L. Witte
- 1578 Krüppel-like factor 4 regulates B cell survival and apoptosis.
J. Klaewsongkram, S. Golech, J. Godlove, J. Katz, K.H. Kaestner, J. Segre and N-P. Weng
- 1494 In vivo disruption of T regulatory cells results in dysregulated germinal center responses.
C. Cozine, K. Wolniak, R. Noelle and T. Waldschmidt
- 161 Molecular mechanism of affinity maturation of antigen specific B cells in germinal centers.
N. Sakaguchi, H. Igarashi, M. Yoshida, K. Maeda and K. Kuwahara
- 1533 Vav proteins regulate the plasma cell program and secretory immunoglobulin production.
L.M. Stephenson, A.V. Miletic, T. Kloeppe, S. Kusin and W.A. Swat

Room 311 Autoaggressive T Lymphocytes -- Chairs: David Wagner, U Colorado; Michele Kosiewicz, U Louisville

- 113 Translating the NOD mouse model to human type 1 diabetes: identification of auto-aggressor T cells.
D.H. Wagner, Jr., D.M. Waid and P. Gottlieb
- 140 CD8 T cell peripheral tolerance in NOD and diabetes resistant Idd3/5 mice.
J. Martinez, L. Wicker and L. Sherman
- 397 Insulin specific T cells recognize two neighboring registers of beta-(9-23) epitope.
M.G. Levisetti, A. Suri, S.J. Petzold and E.R. Unanue
- 626 Molecular triggers of systemic autoimmunity.
K.K. Hoyer, K. Wolslegel and A.K. Abbas
- 1178 Dichotomous effect of TRAIL on acute and chronic murine graft-versus-host disease development.
V. Rus, V. Nguyen, P. Nguyen, R. Puliaev, I. Puliaeva, V. Zernetkina, J. Peschon and C.S. Via
- 1113 Sex hormones play a significant role in autoimmune responses to myelin in multiple sclerosis.
C.M. Pelfrey, I.R. Moldovan, A.C. Coteleur, N. Zamor, J-C. Lee, H.S. Bagga and R.A. Rudick
- 1186 Development of experimental autoimmune uveitis requires IL-23 but not the IL-17 producing T cell effector.
D. Luger, P. Silver, D. Cua, Z. Chen and R. Caspi
- 1255 Cardiac troponin I but not cardiac troponin T induces severe autoimmune inflammation in the myocardium.
S. Göser, S. Buss, F. Leuschner, R. Öttl, S. Zittrich, N. Blaudeck, G. Pfitzer, S. Hardt, N.R. Rose, H.A. Katus and Z. Kaya

Room 313 Autoantibodies: Pathogenetic Roles and Mechanisms in Autoimmunity -- Chairs: Ann Feeney, Scripps Res Inst; Ann Marshak-Rothstein, Boston U

- 399 Loss of tolerance of anti-dsDNA B cells in mice overexpressing BAFF is dose dependent.
M. Thorn, R. Lewis and L.A. Spatz
- 666 Pathogenic human monoclonal antibody against desmoglein 3 induces pemphigus vulgaris.
L. Cavacini, S. Yeh, K. Bhol, M-S. Lin, M. Kumar, M. Duval, M. Posner and A. Ahmed
- 1087 Alternative complement pathway activation is essential in the passive transfer model of collagen-induced arthritis.
V. Holers, J.M. Thurman, D. Kraus, A. Wood, M. Carroll, W.P. Arend and N. Banda
- 1444 NKT cells regulate autoreactive B cells.
R.R. Singh and J-Q. Yang
- 1489 Autoantigen encounter by low affinity marginal zone B cells leads to activation not tolerance.
L. Mandik-Nayak, J. Racz, B.P. Sleckman and P.M. Allen
- 1633 Mechanisms of B cell autoimmunity in LMP1 transgenic mice.
L. Stunz and G. Bishop
- 987 Receptor editing is impaired in lupus-prone MRL/lpr mice.
A.J. Feeney, J. Lamoureux, D. Nemazee and L. Watson
- 821 Trafficking of antigen between antigen-specific B lymphocytes and macrophages.
B.P. Harvey, R.J. Gee and M.J. Mamula

SUNDAY, MAY 14 -- 8:00 AM

Room 208 Lymphocyte Migration -- Chairs: Ulrich Von Andrian, Harvard U; James Campbell, Harvard U

- 269 CXCR5/CXCL13 interaction is important for double negative regulatory T cell homing to cardiac allografts.
B.P.-L. Lee, W. Chen, H. Shi, S. Der, R. Forster and L. Zhang
- 1089 Selective migration of T regulatory cells by IL-16.
R. Morgan, C. McFadden, D. Center and W. Cruikshank
- 1481 The histamine 4 receptor induces lymphocyte migration and preferentially attracts a T-lymphocyte population with regulatory phenotype and function.
R. Morgan, D. Center and W. Cruikshank
- 321 CD25 + CD4 + cells induced by activation of normal human T cells in the presence of neutralizing maB to TNF α specifically downregulate differentiation of resting VLA-1-CD4 + T cells to the VLA-1 + stage.
I. Bank, S. Ben - Horin, A. Koltakov, V. Plevoy and I. Goldstein
- 1159 Dynamic control of lymphocyte homing by dendritic cells and retinoids.
J. Mora, M. Iwata, B. Eksteen, S-Y. Song, B. Senman, D.H. Adams and U.H. Von Andrian
- 1532 Analysis of T-cell invasion of the CNS during EAE initiation.
J.R. Lees and J.H. Russell
- 408 Chemokine receptor CCR4 is necessary for antigen-specific homing of CD4 T cells to inflamed skin under physiological conditions.
J.J. Campbell and M-A. Wurbel
- 372 Requirements for T lymphocyte migration in explanted lymph nodes.
J.H. Huang, L. Cárdenas-Navia, C.C. Caldwell, M. Sitkovsky, M.W. Dewhirst and M.L. Dustin

Room 210 Signal Pathways in Non-T Immune Cell Development, Regulation and Activation -- Chairs: Henry Wortis, Tufts U; Tom Chiles, Boston Coll

- 1537 Vav1 controls NKG2D-DAP10-mediated NK cell synapse formation and natural cytotoxicity.
D.B. Graham, M. Cella, E. Giurisato, K. Fujikawa, A. Miletic, T. Kloeppe, K. Brim, A. Shaw, M. Colonna and W. Swat
- 970 Differential regulation of human NK cell-mediated cytotoxicity by the tyrosine kinase Itk.
D. Khurana, L.N. Arneson, R.A. Schoon, C.J. Dick and P.J. Leibson
- 902 Differentiation of dendritic cells depends on the nature of Notch ligands expressed on bone marrow stroma cells.
P. Cheng, Y. Nefedova, C.A. Corzo and D.I. Gabilovich
- 851 B cell-specific TRAF3-deficient mice exhibit expanded B cell compartments in secondary lymphoid organs.
P. Xie, L.L. Stunz, K.D. Larison, B. Yang and G.A. Bishop
- 544 Antigen receptor-mediated changes in glucose metabolism: role of phosphatidylinositol 3-kinase signaling in the glycolytic control of B lymphocyte growth.
C.A. Doughty, B.F. Bleiman, D. Blair, D.J. Wagner, F.J. Dufort, M.F. Roberts and T.C. Chiles
- 915 The initiation of B cell receptor signaling viewed in living cells with FRET.
P. Tolar, H. Sohn and S.K. Pierce
- 1133 CD86 stimulation on a B cell activates the PI3K/Akt and PLC γ 2/PKC α and β signaling pathways.
N.W. Kin and V.M. Sanders
- 137 Pten is required for BCR-induced cell death in c-Rel $^{-/-}$ mature B cells and transitional immature B cells through Bcl-xl -inhibitable and caspases-independent mitochondrial pathway. *S. Cheng, B. Feng, C. Hsia, M-L. Liou, P. Neilsen, G. Prestwich, T. Franke, L. Trotman, P. Pandolfi and H. Liou*

Room 310 Tumor Immunobiology and Anti-tumor Effector Cells -- Chairs: Leonid Metelitsa, Children's Hospital LA; Jeff Molldrem, MD Anderson Cancer Ctr

- 737 Requirement for tumor infiltrating Gr1 + cells for the elicitation of an antitumor immune response in a highly inflammatory environment.
P.C. Kousis, B.W. Henderson and S.O. Gollnick
- 557 Role of interferon-gamma in intraocular tumor rejection.
D.S. Dace, P.W. Chen, H. Alizadeh and J.Y. Niederkorn
- 1364 Wnt/Fzd signaling affects B cell development and is upregulated during lymphomagenesis.
Q. Wu, A. Ko and E.A. Ranheim
- 1668 High avidity PD-1 cyclin E-specific CTL contribute to leukemia remission and may be induced by epitope spread.
K. Ishiyama, Y. Kondo, E. Wieder, S. Lu, N. Orozco, C. Dong, S. Neelapu, P. Hwu, Y. Liu, L. Kwak and J. Molldrem
- 1042 Deletion mutation in human NKG2D ligand effects tumors resistance to T cells mediated cytotoxicity.
M.A. Karimi, L. Su, J.K. Chan and R.S. Negrin
- 1157 Enhancement of NK cell mediated tumor cytotoxicity by mild thermal stress.
B.E. Dayanc, M. Yuan, E.A. Repasky and J.R. Ostberg
- 858 MYCN oncogene regulates CCL2 expression and localization of natural killer T cells in neuroblastoma.
L.S. Metelitsa and L. Song
- 130 The role of microglia in mediating anti-tumor immune responses in malignant glioma patients.
S. Hussain, D.S. Yang and A.B. Heimberger

Room 311 Tolerance in Autoimmunity -- Chairs: Arlene Sharpe, Harvard U; Mark Mamula, Yale U

- 271 Lymphotoxin modulates tissue-specific antigen expression in the thymus.
E.M. Akirav and N.H. Ruddle
- 517 Characteristics of autoimmune disease model induced by in vitro matured, Ag-pulsed DC: an essential role for IFN- γ .
J. Tang, W. Zhu, P. Sliver, S. Su, R. Agarwal, C-C. Chan and R. Caspi
- 578 Tristetraprolin regulates expression of indoleamine 2, 3-dioxygenase in human dendritic cells.
S.A. Brooks and K.M. Deleault
- 785 A role for Mertk/Axl/Tyro3 family receptor tyrosine kinases in the clearance of apoptotic cells.
H.M. Seitz and G.K. Matsushima
- 789 Modulation of adjuvant arthritis in the Lewis rat by tolerance induction using retrovirally-transduced B cells expressing mycobacterial heat-shock protein-65-IgG fusion protein. *S.R. Satpute, N. Soukhareva, D.W. Scott and K.D. Moudgil*
- 827 Parenchymal expression of PD-L1 mediates peripheral T cell tolerance.
M.E. Keir, S.C. Liang, I.C. Guleria, Y.E. Latchman, A. Qipo, L.A. Albacker, M. Koulmanda, G.J. Freeman, M.H. Sayegh and A.H. Sharpe
- 1799 Innate immunity control over organ-specific autoimmunity.
A. Chervonsky, A. Stonebraker and L. Wen
- 1206 Breaking tolerance to gut associated proteins.
M.J. Turner and L. Lefrancois

Room 312 Regulatory T Cells -- Chairs: Silvia Gregori, San Raffaele Telethon Inst for Gene Ther; Casey Weaver, UAB

- 1298 Crosstalk between dendritic and regulatory T cells via tryptophan catabolism in tolerance.
F. Fallarino, U. Grohman, C. Orabona, C. Vacca, R. Bianchi, M.L. Belladonna, C. Volpi, M.C. Fioretti and P. Puccetti
- 1311 CD73 expression by CD4 T regulatory and uncommitted primed precursor cells mediates suppression of CD4 T cells by converting 5'AMP to adenosine. *J.J. Kobie, P.R. Shah, L. Yang, J.A. Rebhahn, D.J. Fowell and T.R. Mosmann*
- 1447 Using CFSE data to model the dynamics of immune suppression by CD25 + T cells.
C. Chan, A. Yates, F. Rovis, A. George, O. Garden and J. Stark
- 1243 Essential role of IL-2 in the generation of CD4+CD25+FoxP3-expressing T reg cells by TGF. *David Horwitz, Juhua Wang, Pu Wang, Song Zheng*
- 172 Influence of type-I cytokines on Treg activation and function.
T. Wuest, J. Willette-Brown and A.A. Hurwitz
- 1072 Induction of CD4 + regulatory T cells by IL-10-modulated dendritic cells.
S. Gregori, G. Serafini, E. Tresoldi, R. Bacchetta, D. Tomasoni and M-G. Roncarolo
- 1767 Preferential localization of IL-10-producing regulatory T cells to mucosal tissues.
C.L. Maynard, L.E. Harrington, K.M. Janowski and C.T. Weaver
- 94 Infectious tolerance induced by apoptotic cells is mediated by TRAIL.
T.S. Griffith, H. Kazama, R.L. VanOosten, J.K. Earel, T.A. Ferguson, J.M. Herndon and D.R. Green

Room 313 MHC Structure, Function and Ligands -- Chairs: S. Sadegh-Nasser, Johns Hopkins U; Peter Jensen, U Utah

- 817 H-bond between β 81 His and peptide main chain is the primary target for HLA-DM-induced HLA-DR-peptide dissociation.
K. Narayan, C-L. Chou, A. Kim, I.Z. Hartman, S.K. Dalai, S. Khoruzhenko and S. Sadegh-Nasseri
- 1202 Expression of MHC class II in immature B-lineage cells is regulated.
Y. Gu, P. Jensen and X. Chen
- 518 Human dendritic cell expression of HLA-DO is subset-specific and regulated by maturation.
T.M. Hornell, T. Burster, F.L. Jahnsen, A. Pashine, M.T. Ochoa, J.J. Harding, C. Macaubas, A. Lee, R.L. Modlin and E.D. Mellins
- 1451 The alloreactive repertoire consists of two populations: one peptide specific and one MHC dominant.
N. Felix, A. Suri, J. Walters, D. Donermeyer, S. Horvath, M. Gross and P. Allen
- 1701 Characterization of MHC class I epitopes unique to influenza-infected cells.
A. Wahl, F. Schaffer, W. Bardet, R. Bucchli, A. Fleshman, G. Air and W. Hildebrand
- 1519 Impaired response to *Listeria* infection in H2-M3-deficient mice reveals a nonredundant role of MHC class Ib-restricted T cells early in host defense.
H. Xu, T. Chun, H-J. Choi and C-R. Wang

SUNDAY, MAY 14 -- 10:15 AM

Room 210 Signal Pathways in T Cell Development, Regulation and Activation -- Chairs: Yoji Shimizu, U Minnesota; Donna Farber, U Maryland

- 1046 Interleukin-2 receptor-dependent STAT5 activation is required for regulatory T cell development.
M.A. Farrar, J. Yang and M.A. Burchill
- 1280 Expression of the signaling subunit FcR- γ defines a class of regulatory T cells distinct from endogenous Tregs.
F.I. Okoye, G.C. Tsokos and D.L. Farber
- 1112 Targeted disruption of I κ BNS alters T cell activation and cytokine production.
L.K. Clayton, M. Touma, V. Antonini, A.M. Bobenchik, A. Bobenchik, S.L. Osborn, M.J. Grusby, D.B. Keskin, J.E. Connolly and E.L. Reinherz
- 456 Regulation of NF- κ B1/RelA activation by NF- κ B2 in CD4 + T cells.
H. Kishimoto, N. Ishimaru and J. Sprent
- 752 A novel function for ADAP in NF κ B activation downstream of protein kinase C.
R.B. Medeiros, B. Burbach, K. Mueller, S. Highfill, E. Peterson and Y. Shimizu
- 1720 Accumulation of NFAT mediates IL-2 expression in memory, but not in naive CD4 + T cells.
O. Dienz, T.J. Krahl, S. Eaton, S. Diehl, S. Swain, R.C. Budd, L. Haynes and M. Rincon
- 782 The TNF-family ligand TL1A is induced by innate and adaptive immune stimuli and biases T cells towards Th2 differentiation.
F. Meylan, M. Kinder, D. Jankovic, A. Sher, A. Boesen, A. Keane-Myers, R. Semnani, T. Nutman, E. Wang and V. Deyev
- 924 Discordant proliferation and survival signaling in Drak2-deficient T cells leads to enhanced activated cell death.
S.J. Ramos and C.M. Walsh

Room 309 Mechanisms/Biology of Immunological Memory and Aging -- Chairs: Sue Kaech, Yale U; Avinash Bhandoola, U Penn

- 123 Mechanisms for E2A mRNA stability in young and aged B cells.
B.B. Blomberg, D. Frasca, E. Van der Put, A. Landin and R.L. Riley
- 241 Age-associated alterations in Notch signaling and thymopoiesis in the early thymic progenitors.
E.C. Zook, L. Seal, N.J. Zeleznik-Le, P.L. Witte and P.T. Le
- 933 Defect in TLR1 function and expression associated with human aging.
D. Van Duin, S. Mohanty, C. Scheidig, S. Ginter, H. Allore, R. Medzhitov and A.C. Shaw
- 1324 Thymic output in aged mice.
P.J. Fink, J.S. Hale, T.E. Boursalian and G.L. Turk
- 358 Persistence of memory T cells from an IFN γ competent effector T cell population.
L.E. Harrington, K.M. Janowski, H. Turner, A.J. Zajac and C.T. Weaver
- 429 Expression of IL-7R is necessary but not sufficient for formation of memory CD8 T cells.
T. Hand, A. Singer, M. Morre and S.M. Kaech
- 1607 Memory T and memory B cells share a transcriptional program of self-renewal with long-term hematopoietic stem cells.
C.J. Luckey, D. Bhattacharya, A.W. Goldrath, I.L. Weissman, C. Benoist and D. Mathis
- 1699 Overexpression of Krüppel-like factor 2 promotes T cell homing to lymph nodes.
A. Bai, H. Hu, H.N. Eisen and J. Chen

Room 310 Cancer Vaccines and Immunotherapies -- Chairs: Joseph Lustgarten, Sidney Kimmel Cancer Inst; Yan-Xin Fu, U Chicago

- 449 Immunizations with CpG-ODN but not other TLR-ligands restores antitumor responses in old mice.
J. Lustgarten
- 607 Relating MHC-peptide-TCR affinity to immunogenicity for the rational design of tumor vaccines.
R.H. McMahan, J.A. McWilliams, K.R. Jordan, S.W. Dow, D.B. Wilson and J.E. Slansky
- 1501 Induction of potent tissue unrestricted cancer specific immune responses by vaccination with a novel onco-initiating transcription factor, BORIS.
A. Ghochikyan, M. Mkrtychyan, D. Loukinov, G. Mamikonyan, T. Ichim, D.H. Cribbs, V.V. Lobanenkov and M.G. Agadjanyan
- 209 Hierarchy of AFP-specific T cell responses in subjects with AFP-positive hepatocellular cancer.
Y. Liu, S. Daley, D.M. Potter and L.H. Butterfield
- 968 Regression of advanced stage spontaneous tumors mediated by interferon- γ producing CD8 + T cells specific for a single immunodominant epitope.
A. Tatum, L.M. Mylin, M.J. Tevethia, S.S. Tevethia and T.D. Schell
- 1588 Targeting the primary tumor to generate CTL for the effective eradication of spontaneous metastasis.
P. Yu, Y. Lee, Y. Wang and Y-X. Fu
- 67 Anti-tumor effect of human granulysin in transgenic mice.
L.P. Huang, C. Clayberger and A.M. Krensky
- 1488 Combined IL-15/IL-15R α immunotherapy maximizes IL-15 activity and tumor clearance in vivo.
T.A. Stoklasek, K.S. Schluns and L. Lefrancois

Room 312 Controlling Intestinal Inflammation -- Chairs: Konstantinos Papadakis, Cedars Sinai/UCLA; Xiaojing Ma, Cornell U

- 963 Characterization of FoxP3 + CD4 + CD25 + regulatory T cells from mesenteric lymph nodes in human ulcerative colitis.
K. Papadakis, M. Saruta, Q. Yu, A. Banham and A. Avanesyan
- 724 Identification of a Smad phosphatase upregulated in absence of Gai2.
M.X. Wu and Y.Z. Jin
- 307 Crohn's disease-associated NOD2(3020insC) mutant is a novel regulator of IL-10 gene expression.
X. Ma and Y. Homma
- 453 Chitinase 3-like-1 potentially exacerbates acute and chronic colitis by enhancing intracellular bacterial adhesion and invasion in colonic epithelial cells.
E. Mizoguchi, Y. Hachiya and M. Kawada
- 243 Adoptive transfer of naive T cells into athymic nude mice does not induce colitis but does produce colitogenic T cells.
D.V. Ostanin, S.L. Laroux, L. Gray, K.L. Furr, C.M. Brown, D. D'souza and M.B. Grisham
- 530 Inflammation-induced glycan modification allows galectin-4 to bind CD4 + T cells to stimulate their IL-6 production.
K. Shirane, A. Hokama, A. Ogawa, K. Sugimoto, Y. Shimomura, M. Yoshida, R. Blumberg and A. Mizoguchi
- 526 IL-25 regulates immunity and inflammation in the gastrointestinal tract.
C. Zaph, A.M. Owyang, E.H. Wilson, K.J. Guild, H.R. Miller, D.J. Cua, M. Goldschmidt, C.A. Hunter, R.A. Kastelein and D. Artis
- 504 IL-12p35-producing B cells regulate Th2-mediated chronic colitis.
K. Sugimoto, A. Ogawa, Y. Shimomura, A. Mizoguchi and A.K. Bhan

Room 313 MHC Assembly and Trafficking -- Chairs: Paul Roche, NIH/NCF; Elizabeth Mellins, Stanford U

- 603 The E3-19K immunomodulatory protein from adenovirus interferes with the early and late stages of the class I antigen presentation pathway.
M. Bouvier, H. Liu and J. Fu
- 731 Domain control of MHC class II raft localization.
N. Poloso and P. Roche
- 859 Direct visualization of staphylococcal enterotoxin A induced clustering of HLA-DR1 in B cells.
K. Narayan, E.M. Perkins and S. Sadegh-Nasseri
- 1452 The p41 isoform of Ii chain decreases export and favors production of empty class II.
E. Bikoff, T. Rohn, H. Kropshofer, A. Vogt and C. Koonce
- 1307 HLA-DM influences abundance of a subset of HLA class II alleles.
S. Roh, C. Rinderknecht, A. Pashine, N. Patil, M. Belmares, R. Busch, H. McConnell and E. Mellins
- 481 Effects of class II/CLIP affinity on the class II antigen presentation pathway.
C. Rinderknecht, T. Catanzarite, M. Belmares and E. Mellins
- 1104 MTP activity is required for NKT cell selection and antigen presentation on CD1d.
S.K. Dougan and R.S. Blumberg

SUNDAY, MAY 14 -- 12:30 PM

Room 208 Tumor-Associated Immunoregulation and Immunosuppression -- Chairs: Dimitri Gabrilovich, H. Lee Moffitt Cancer Ctr; Lisa Butterfield, U Pittsburgh

- 1140 Three dimensional culture of melanoma cells results in impaired immunorecognition by cytotoxic T lymphocytes specific for tumor-associated antigen.
S. Ghosh, C. Feder-Mengus, P. Zajac, W.P. Weber, D. Oertli, M. Heberer, I. Martin, G.C. Spagnoli and A. Reschner
- 1842 Tumor-infiltrating regulatory dendritic cells suppress CD8 + T cell function.
L.A. Norian, L. O'Mara, P. Rodriguez, A. Ochoa and P.M. Allen
- 900 Mechanism of CD8 + T-cell tolerance in cancer induced by immature myeloid cells.
S. Nagaraj, S. Kusmartsev and D.I. Gabrilovich
- 1865 Reinstalling anti-tumor immunity by silencing tumor-derived indoleamine 2,3-dioxygenase gene using siRNA.
X. Zheng, J. Koropatnick, M. Li, X. Zhang, J.A. Franek, H. Sun, C. Vladau, B. Feng, M. Suzuki and W-P. Min
- 1748 CD4 + CD25 + FoxP3 + T regulatory cells play a dominant role in immune evasion at early, but not late, stages of tumor progression.
K.G. Elpek, C. Lacelle, N.P. Singh, E.S. Yolcu and H. Shirwan
- 354 CD4 + CD25 - regulatory T cells expansion in tumors is thymus and proliferation independent.
M.P. Colombo, S. Piconese and B. Valzasina
- 1671 The balance of helper and regulatory CD4 + T cells determines the outcome of vaccination with the tumor antigen MUC1.
M.S. Turner and O.J. Finn
- 21 A nonclassical type II NKT cell suppresses tumor immunity.
M. Terabe, J. Swann, E. Ambrosino, P. Sinha, S. Takaku, Y. Hayakawa, D.I. Godfrey, S. Ostrand-Rosenberg, M.J. Smyth and J.A. Berzofsky

Room 210 Host Defense against Parasitic and Fungal Infections -- Chairs: Lynn Soong, U Texas-Galveston; Mary Stevenson, McGill U

- 1419 Mechanisms of helminth-associated modulation of immunity to malaria.
Z. Su, M. Segura, Y. Belkaid and M. Stevenson
- 498 IL-4R α protects against lethal gut pathology during schistosomiasis via TGF- β , AAM ϕ and Foxp3 + T regulatory cells.
D.R. Herbert, S. Joseph, T. Hunig and F. Brombacher
- 1276 Memory Th2 cells at the host:parasite interface induce alternatively activated macrophages to mediate protection against a nematode parasite.
R.M. Anthony, J.F. Urban, Jr., F.A. Alem, H.A. Hamed, C. Rozo, J-L. Boucher, N. Van Rooijen and W.C. Gause
- 102 Central memory CD4 + T cells require IL-12 to become the effector cells that maintain immunity to *Leishmania major*.
N. Pakpour and P. Scott
- 1698 Influence of *Leishmania amazonensis* promastigotes and amastigotes on dendritic cell function and T cell activation.
L. Soong, L. Xin and Y. Li
- 1695 Strain-dependent differences in lung dendritic cell function account for disparate pulmonary immune responses and susceptibility to *Cryptococcus neoformans*.
J. Wilder, J. Trulley, C. Hensler, C. Peceny, M. Carter and M. Lipscomb
- 1672 Intrinsic MyD88-mediated signals drive CD4 + T cell differentiation during *Aspergillus fumigatus* infection.
A. Rivera, G. Ro, I. Leiner and E.G. Pamer
- 753 Chronic granulomatous disease and normal human neutrophils arrest the growth of *Aspergillus fumigatus* Conidia: a new fungistatic role for lactoferrin.
K.A. Zarembek, J. Sugui, P. Zerfas, Y. Chang, J. Kwon-Chung and J.I. Gallin

Room 304 HIV -- Chairs: Magdalena Tary-Lehman, Case Western Reserve U; William Green, Dartmouth U

- 1111 Normalization of the CD4 T-cell pool in HIV-1 infected children on long-term highly active antiretroviral therapy.
R.V. Gent, N. Vrisekoop, S. Otto, M. Hazenberg, T. Kuijpers, T. Wolfs, S. Geelen, F. Miedema and J. Borghans
- 1130 The TRAIL of helpless CD8 + T cells in HIV infection.
S. Kuerten, R.J. Asaad, S.P. Schoenberger, P.V. Lehmann and M. Tary-Lehmann
- 1229 Vaccination preserves pre-existing memory CD4 T cells during acute SIV infection.
J. Mattapallil, D. Douek, A. Buckler-White, M. Martin, D. Montefiori, N. Letvin, G. Nabel and M. Roederer
- 1380 Th-1 type cytotoxic CD8 + T lymphocyte responses to simian immunodeficiency virus (SIV) are a consistent feature of natural SIV infection in sooty mangabeys.
Z. Wang, B. Metcalf, R.M. Ribeiro, H. McClure and A. Kaur
- 1686 Mechanisms of antagonism of HIV-specific CD4 + T cells.
P.J. Norris, D. Persad, L. Ran, L. Xu, Y. Sykulev and L.J. Stern
- 1847 Expansion following epitope peptide exposure in vitro predicts CTL epitope dominance hierarchy in lymphocytes of vaccinated Mamu-a*01+ rhesus monkeys.
R.A. Subbramanian, W.A. Charini, M.J. Kuroda, M. Seaman, J.E. Schmitz, A. Carville and N.L. Letvin
- 1879 Cytolytic CD8 + T cells against a cryptic retroviral reading frame epitope confer disease protection.
O. Ho and W.R. Green

Room 306 Autoimmunity of the CNS -- Chairs: Steve Miller, Northwestern U; Samia Khoury, Harvard U

- 128 A fundamental bimodal role for neuropeptide Y1 receptor in the immune system.
F. Mackay, J. Wheway, C. Mackay, R. Newton, A. Sainsbury, D. Boey and H. Herzog
- 529 Spectratype characterization of cross-reactive T cell populations in a molecular mimicry model of MS.
A.M. Ercolini and S.D. Miller
- 746 Modulation of Sonic hedgehog expression and its signaling during experimental autoimmune encephalomyelitis.
Y. Wang, J. Imitola, S. Rasmussen and S.J. Khoury
- 944 Anti-viral effector T cell responses and trafficking are not dependent upon DRAK2 signaling following viral infection of the central nervous system.
S.J. Ramos, J.L. Hardison, L.N. Stiles, T.E. Lane and C.M. Walsh
- 1167 Functional NKG2D ligands expressed on human glial cells trigger immune-mediated cytotoxicity: implications for multiple sclerosis.
N. Arbour, P. Saikali, M. Blain, J. Hall and J. Antel
- 1559 CD5-dependent CK2 activation is necessary for persistence of α IFN+ IL17+ CD4 T-cells in the CNS and development of EAE.
R.C. Axtell, S.R. Barnum and C. Raman
- 1587 Innate immune response affects autoimmune disease.
J.K. Olson and S. Miller
- 1721 Site-specific inflammation in the cerebellum during experimental autoimmune encephalomyelitis.
A.S. Archambault, J. Sim, P.A. Koni and J.H. Russell

Room 309 Mediators of Inflammation -- Chairs: Matthew Grisham, LSU Med Ctr; Jean Marshall, Dalhousie U

- 34 GSNO attenuates EAE disease by S-nitrosylation mediated modulation of endothelial-monocyte interactions.
R. Prasad, S. Giri, N. Nath, I. Singh and A.K. Singh
- 1791 Inhaled nitric oxide reduces leukocyte and platelet recruitment to the brain in a murine stroke model.
B.M. Lapointe, S.R. Clark and P. Kubes
- 425 Histamine stimulates cyclooxygenase-2 expression and prostaglandins E2 and I2 production in human coronary artery endothelial cells.
K.N. Dileepan, S. Essengue, J. Talreja, N. Brown, B.C. Paria and D.J. Stechschulte
- 592 Activating Fc γ receptor, CD32A, predominantly mediates inflammatory cell adhesion to OxLDL-immune complex-deposited endothelial cells.
S. Nagarajan
- 1646 Increased sensitivity of vitamin D receptor deficient mice to local and systemic lipopolysaccharide administration.
M. Froicu and M.T. Cantorna
- 1455 MMP-8 dampens neutrophilic inflammation in acute lung injury in mice.
C.A. Owen, Y. Zhuang, P. Quintero and S.D. Shapiro
- 1643 Myeloperoxidase mediates innate immune glomerular injury but attenuates adaptive nephritogenic immunity.
S. Holdsworth, D. Odobasic, K. Edgton and A. Kitching
- 1621 Leptin activates human B cells to secrete TNF-alpha, IL-6, and IL-10 via JAK-2/STAT-3 signaling pathway: effect of age.
S. Gupta, L. Lim, S. Agrawal, A. Agrawal and S. Gollapudi

Room 310 Novel Regulators of Immune Cell Development -- Chairs: Casey Weaver, UAB; Warren Leonard, NHLBI, NIH

- 1175 Developmental requirements for Th17 effector T cells.
P.R. Mangan, L.E. Harrington, S.M. Wahl, R.D. Hatton and C.T. Weaver
- 469 Modulation of STAT1 signaling pathway by interferons in human T helper 17 lymphocytes.
L. Conti, A. Longo, P. Eid and F. Novelli
- 75 Evidence for ligand-independent multimerization of the IL-17 receptor.
S.L. Gaffen, J.M. Kramer and T. Jin
- 1414 An IL-21 receptor tyrosine is critical for IL-21-induced proliferation and the activation of Stat1 and Stat3.
R. Zeng, R. Spolski, E. Casas, D.E. Levy and W.J. Leonard
- 1398 Novel helper T cell subset helps other T cells through producing GM-CSF.
S. Devadas, C. Liu and Y. Shi
- 943 IL-21 and IL-27 provide third signal to support naive CD8 T cell differentiation into distinct effector populations.
K.A. Casey and M.F. Mescher
- 1707 IL-22 induces the modulation of parameters indicative of an acute phase response.
S.C.-C. Liang, D. Goodwin, K. Shields, K. Dunussi-Joannopoulos, M. Collins, C. Nickerson-Nutter, D. Pittman and L. Fouser

Room 311 Development of Innate Immunity -- Chairs: Richard Stevens, Harvard U; Markus Mohrs, Trudeau Inst

- 953 Evolution of mast cells and their mediators.
R.L. Stevens, B. Lam and G.W. Wong
- 255 Role of commensal microbiota and CD8⁺ T cells in formation of invariant NKT cells.
B. Wei, D. Fujiwara, S. Brewer, M. McPherson, M. Kronenberg and J. Braun
- 1666 Spectrum of CD1d-restricted T cells: control of anti-viral and anti-tumor responses.
M.A. Exley, H.J. Van der Vliet, S.C. Yue, R. Wang, H. Koon, D. Avigan, J. Mier, M.B. Atkins and S.P. Balk
- 272 The adenosine system remodels Toll-like receptor 2-mediated innate immunity in the human newborn.
O. Levy, M. Coughlin, R.M. Roy, B.N. Cronstein and M.R. Wessels
- 83 A two-step process for cytokine production revealed by IL 4 dual-reporter mice.
M. Mohrs, A.E. Wakil, N. Killeen, R.M. Locksley and K. Mohrs
- 1308 FcRH6 is a novel immunoregulatory receptor with NK and T cell expression.
D.M. Schreeder, J.C. Pan, J. Zhang and R.S. Davis
- 879 p21^{Cip1} is required for the development of monocytes and their response to serum transfer-induced arthritis.
J.C. Scatizzi, J. Hutcheson and H. Perlman

MONDAY, MAY 15 -- 8:00 AM

Room 304 Costimulation and Anergy -- Chairs: Steve Schoenberger, LIAI; Andy Lichtman, Brigham & Women's Hosp

- 280 Impaired TCR signaling in anergic CD4 + T cells is caused by a selective defect in the palmitoylation of LAT.
M. Hundt, H. Tabata, M-S. Jeon, Y. Fukata, M. Fukata and A. Altman
- 1752 Ikaros is a negative regulator of IL-2 gene expression and is required for anergy in CD4 + T lymphocytes.
R. Thomas and A. Wells
- 524 Role of PI-3 kinase/Akt kinase signaling pathway in TRAIL-induced costimulation of T cells.
S-C. Huang and P-N. Hsu
- 234 Costimulatory properties of B7-H5, a B7/butyrophilin-like molecule.
A.I. Chapoval, G. Smithson, L. Brunick, M. Mesri, S.E. Strome, P.S. Mezes and G.C. Starling
- 1061 B cells directly tolerize naive CD8 + T cells in vivo through a novel mechanism which uncouples proliferation from subsequent TCR signal transduction.
X.Z. Wang, K.S. Bahjat, E.E. Lemmens, B.D. Ehst, M.K. Jenkins and S.P. Schoenberger
- 1775 Functional dichotomy between OX40 and 4-1BB in modulating effector CD8 T cell responses.
S-W. Lee, Y. Park, H. Cheroutre, B.S. Kwon and M. Croft
- 794 CTLA-4 regulates cytotoxic T cells that cause myocarditis.
V.A. Love, N. Grabie, A.H. Sharpe and A.H. Lichtman

Room 306 Normal and Neoplastic Lymphocyte Development in Primary Lymphoid Organs -- Chairs: Susan Winandy, Northwestern U; Jianzhu Chen, MIT

- 980 IL-7 expands the human pre-B cell compartment.
K.J. Payne, E. Sahakian, G. Huang, Q-L. Hao, L.W. Barsky, E. Zielinska, M.A. Price and Y.K. Parrish
- 1480 Expression of rearranged TCR gamma genes in natural killer cells suggests a thymus-dependent pathway of lineage commitment.
L.L. Veinotte and F. Takei
- 1840 IL-7-signaling via Jak3 is required for development of bone marrow committed B cell progenitors, including activation of the V(D)J recombinase.
S. Elkholy, M. Wallace, D. Chowdhury, L. Berg, R. Sen, D. Allman and R. Gerstein
- 1004 Genetic alterations due to persistent RAG activity are associated with the rapid emergence of T lymphoma.
B.B. Haines and J. Chen
- 810 Ikaros null thymocytes can undergo positive selection with reduced TCR signals in CD3&[zeta] ITAM Tg mice.
J. Urban and S. Winandy
- 317 Gfi1B is an E2A target gene that antagonizes proliferation of E2A-deficient T cell lymphomas.
W. Xu and B.L. Kee
- 1516 Differential recognition of CD3&[epsilon]&[gamma] and CD3&[epsilon]&[delta] heterodimers in the &[alpha]&[beta]TCR complex by two anti-CD3 mAbs, 145-2C11 and 17A2. *S. Kim, K. Takeuchi, Z-Y.J. Sun, M. Touma, G. Wagner and E.L. Reinherz*
- 558 The essential role of PI3K&[delta] and PI3K&[gamma] in thymocyte survival.
T. Diacovo, V. Montgrain, T. Doggett, J. Douangpanya, K. Puri, W. Vermi and W. Swat

Room 309 Allergic Lung Inflammation -- Chairs: Rosemarie Dekruyff, Children's Hosp Boston; Fred Finkelman, U Cincinnati

- 136 Blocking extracellular cyclophilin-CD147 interactions inhibits asthma-mediated lung inflammation.
S.L. Constant, W.M. Gwinn, J.M. Damsker, R. Falahati, I. Okwumabua, A. Kelly-Welsh, A. Keegan, D. Leitenberg and M.I. Bukrinsky
- 720 SR-AI/II and marco receptors limit pulmonary dendritic cell migration and allergic airway inflammation.
M. Arredouani, F. Franco, S.D. Shapiro and L. Konzik
- 729 Suppression of established, ongoing allergic airway inflammation by IL-4, IL-13, and IL-4R[alpha] antagonists.
C. Perkins, T. Orekov, M. Khodoun and F.D. Finkelman
- 845 Effect of blocking intrapulmonary activation of complement cascade on the development of airway hyperresponsiveness: utility in sight?
T. Peng, X. Su, K. Kumor, S.L. Chen, H. Zhou, D. Miano, Y. Shen and Y. Wang
- 957 Non-t cell TRAF1 is required for allergic lung inflammation in mice.
M.K. Oyoshi, P.J. Bryce, S. Goya, H.C. Oettgen, D.T. Umetsu and E.N. Tsitsikov
- 1187 Cbl-b deficiency results in an exacerbation of inflammation during acute and chronic stages of a mouse model of allergic airway disease.
W.F. Carson iv, L.A. Guernsey, E.A. Wohlfert, R.B. Clark, M.D. and R.S. Thrall, Ph.D.
- 1227 TIM-2 gene-deficient mice reveal a novel mechanism for the regulation of T_H2 immune responses and airway inflammation.
P.D. Rennert
- 1405 IL-12 treatment alleviates allergic lung inflammation in T-bet -/- mice.
D.M. Durrant and D.W. Metzger

MONDAY, MAY 15 -- 10:15 AM

Room 210 Pathogenesis of Autoimmune Disease -- Chairs: Youhai Chen, U Penn; Rachel Caspi, NIH

- 459 CD4 + NKG2D + T cells in Crohn's disease mediate inflammatory and cytotoxic responses through MICA interaction.
A. Toubert, M. Allez, V. Tieng, A. Nakazawa, X. Treton, N. Dulphy, M. Lemann, L. Mayer and D. Charron
- 796 Translational regulation of lymphoma genesis and autoimmune inflammation by programmed cell death 4.
Y. Chen, A. Hilliard, B. Hilliard, S. Zheng, T. Miwa, W. Song and R. Goke
- 951 Transcriptional regulation of type I diabetes by Bcl-3.
Q. Ruan, S. Zheng, R. Carmody, B. Hilliard and Y.H. Chen
- 962 Targeting of pancreatic glia in type 1 diabetes.
H.B. Tsui, Y. Chan, S. Winer and H-M. Dosch
- 1119 The autoimmune regulator regulates iNKT cell development and maturation.
Q-S. Mi, Z-B. Deng, S.K. Jushi, L. Zhou, Z-Z. Wang, X-Z. Wu, S. Eckenrode, R. Joshi, B. Yi, D. Ly, T.L. Delovitch and J-X. She
- 1212 HLA-DR and -DQ allele interactions control susceptibility to autoimmune retinal disease.
M.J. Mattapallil, A.M. Viley, C-C. Chan, P.B. Silver, L.M. Cortes, L.A. Donoso, H.J. McDowell, C.S. David and R.R. Caspi
- 1296 Induction of Sjogren's syndrome-like disease by MCMV in New Zealand mice.
V. Carroll, Y. Ohyama, U. Desmukh, F. Gaskin, S. Fu and M.G. Brown
- 1294 Interleukin 14 alpha induces autoimmunity in transgenic mice.
L. Shen, T. Wang, C. Xu, C. Zhang and J.L. Ambrus, Jr.

Room 304 Transplantation Immunology I -- Chairs: Havel Shirwan, U Louisville; Marilia Cascalho, Mayo Clinic

- 1637 Rapid identification of naive allospecific T cells by TNF α production allows the prediction of allograft rejection.
M.A. Brehm, J. Mangada, T.G. Markees, T. Pearson, T.B. Thornley, R.M. Welsh, A.A. Rossini and D.L. Greiner
- 1580 Latent membrane protein 1 of Epstein-Barr virus signals for IL-10 production in human B cell lymphomas.
S. Lambert and O.M. Martinez
- 251 Fragmented hyaluronan is an innate immune ligand that activates alloimmunity.
D. Goldstein, B.M. Tesar, D. Jiang, J. Liang, S.M. Palmer and P.W. Noble
- 600 TLR activated neonatal B cells suppress alloimmunity.
W.E. Walker, B.M. Tesar and D.R. Goldstein
- 1716 Expansion of CD4 + CD25 + FoxP3 + regulatory T cells using a novel form of 4-1BBL.
K.G. Elpek, E.S. Yolcu, C. Lacelle, D.D. Franke and H. Shirwan
- 1682 Immunomodulation using donor splenocytes decorated with FasL protein induces cardiac allograft tolerance maintained by CD4 + CD25 + FoxP3 + Treg cells.
C. Lacelle, X. Gu, E.S. Yolcu and H. Shirwan
- 774 Adaptation of the T cell compartment to contraction of repertoire diversity.
M.O. AbuAttieh, J.L. Platt and M. Cascalho
- 1739 Long-term function of microencapsulated human islets in diabetic mice.
S. Safley, H. Cui, C. Tucker-Burden, S. Cauffiel, J. Cano, E. Holbrook, K. Cardona, C. Larsen and C. Weber

Room 306 Chemokines and Chemokine Receptors in Host Immunity -- Chairs: Eric G. Pamer, Mem Sloan-Kettering Cancer Ctr; Cory Hogaboam, U Michigan

- 1026 Homeostatic lymphoid chemokines synergize with adhesion ligands to trigger T and B lymphocyte chemokinesis.
A.N. Stachowiak, Y. Wang and D.J. Irvine
- 1644 Monocyte emigration from bone marrow during bacterial infection requires CCR2-mediated signals.
N. Serbina and E.G. Pamer
- 1640 Dissecting lymphocyte stop signal hierarchies with chemokine receptor chimeras.
T.O. Cameron, T. Wu and M.L. Dustin
- 1097 Murine chemokine CCL25 gene inactivation results in TCRgd + compartment deficiency in the small intestine and its accumulation in secondary lymphoid organs.
M-A. Wurbel, D. Guy-Grand, J.J. Campbell and B. Malissen
- 1558 CCL5-dependent T cell proliferation and differentiation in response to pneumococcal carriage.
R. Singh, S. Singh, U.P. Singh, D.E. Briles and J.W. Lillard, Jr.
- 1188 CXCR5-CXCL13 expression mediates cellular mechanisms involved in prostate cancer progression.
S. Singh, R. Singh, U.P. Singh, S.K. Kimbro, C.R. Cooper, L.W. Chung, M.W. Datta, P.J. Didier, W.E. Grizzle and J.W. Lillard, Jr.
- 1392 CCL21 induces phosphorylation of ERK in usual interstitial pneumonia fibroblasts.
E.M. Pierce, K. Carpenter, C. Jakubzick, S.L. Kunkel, K.R. Flaherty, F.J. Martinez, G.B. Toews and C.M. Hogaboam

Room 309 Mast Cells and Basophils -- Chairs: Michael Gurish, Harvard U; Hajime Karasuyama, Tokyo Med & Dent U

- 10 SHP-1 dephosphorylates SHP-1 and SLP-76, thereby inactivating SHP-1 in mast cells.
K. Mizuno, T. Ozawa, K. Nakata and H. Yakura
- 324 Basophils play a critical role in the development of IgE-mediated chronic allergic inflammation, independently of T cells and mast cells.
H. Karasuyama, K. Mukai, K. Matsuoka and H. Yonekawa
- 361 Recruitment of mast cell progenitors to the lung is Th2-mediated.
T.G. Jones, P. Alcaide, J. Hallgren and M.F. Gurish
- 1117 Virus-associated stimuli induce CXCR3 ligand production by human mast cells.
S.M. Burke, M.G. Brown, S. Zinn, R. Anderson, T.B. Issekutz and J.S. Marshall
- 1401 Fc ϵ RI aggregation on mast cells results in lipoxygenase-dependent production of reactive oxygen species which facilitates cytokine secretion.
E.J. Swindle, J.W. Coleman and D.D. Metcalfe
- 1509 Human mast cells express TLR 3,7, and 9, TLR-9 mRNA is induced by viral DNA sequence K3 CpG-ODN.
B.B. Hyde, N. Papadopoulou and T.C. Theoharides
- 1757 Divalent ligands for IgE stimulate altered tyrosine phosphorylation of Fc ϵ RI- γ subunits and progressively reduce downstream signaling compared to multivalent ligands. *C. Torigoe, D. Sil, Y. Li, D. Luo, D. Holowka and B. Baird*

Room 310 Immune Regulation by Complement and Fc Receptors -- Chairs: V. Michael Holers, U Colorado Hlth Sci Ctr; Michael Carroll, Harvard U

- 117 Interaction of immune complexes with Fc γ RIIB on follicular dendritic cells upregulates Fc γ RIIB expression as well as VCAM-1, ICAM-1 and CD320. *M. El Shikh, R. Elsayed, A.K. Szakal and J.G. Tew*
- 341 Isotype-specific engagement of stimulatory and inhibitory Fc γ Rs regulates B lymphocyte depletion during CD20 antibody immunotherapy in mice.
Y. Hamaguchi, Y. Xiu, K. Komura, F. Nimmerjahn and T.F. Tedder
- 1409 A microbial toxin forms immune complexes that co-opts cellular Fc γ R to induce B-cell apoptotic death.
C.S. Goodyear and G.J. Silverman
- 1445 Complement receptor 1, or CD35 ligation triggers association with Fas-associated phosphatase-1 in human erythrocytes.
I.C. Ghiran, L. Klickstein, P. Karchanaphanurach, D. Golan and A. Nicholson-Weller
- 1388 Natural antibody in myocardial reperfusion injury.
J. Li, M. Zhang, L. Michael, M. Entman and M. Carroll
- 583 Cell cycle activation induced by sublytic C5b-9 is RGC-32 dependent.
M. Fosbrink, C. Cudrici, T. Badea, V. Rus, F. Niculescu and H. Rus
- 246 Protective levels of RBC-targeted complement regulators following retroviral in vivo gene therapy.
D. Spitzer, X. Ma, L. Xu, K.P. Ponder and J.P. Atkinson
- 217 Complement regulator C4b-binding protein interacts with both the C4c and C4dg subfragments of the parent C4b ligand: evidence for synergistic binding.
D.E. Isenman, E. Leung, L. Clemenza and A.M. Blom

MONDAY, MAY 15 -- 12:30 PM

Room 208 Immunity to Intracellular Bacterial Pathogens -- Chairs: Archie Bower, Oregon Health Sci U; Darren Higgins, Harvard U

- 213 An important role for IFN γ in acute Salmonella -induced enteritis.
B. Cherayil, L. Harrington, R. Antony and H. Shi
- 249 Activation of plasmacytoid dendritic cells by the intracellular pathogen Listeria monocytogenes .
L.M. Mitchell and E.M. Hiltbold
- 250 Chlamydia-specific CD4 + TCR transgenic T cells traffic to the genital tract within infected mice.
N.R-Z. Roan, T. Gierahn, D. Higgins and M. Starnbach
- 751 FN γ produced by CD4 T cells is a necessary component of protective immunity in an adoptive transfer model of M. tuberculosis infection.
A. Green and J. Flynn
- 916 Strategies for enhancing the magnitude of CD8 T-cell responses following immunization with L. monocytogenes .
M.J. Montfort and H.A. Bower
- 1128 Delayed initiation of adaptive immunity to Mycobacterium tuberculosis is due to delayed CD4 + T cell priming.
A.J. Wolf, B. Linas, K. Takatsu and J.D. Ernst
- 1343 Paradoxically increased susceptibility to L. monocytogenes infection in immunodeficient strains of mice.
J.A. Carrero, B. Calderon and E.R. Unanue
- 1475 Isolation of Listeria monocytogenes -specific CD8 + T cells with novel MHC-Ib restriction.
S.E. D'Orazio, T. Gierahn, M.N. Starnbach and D.S. McElroy

Room 210 Modulation of Host Innate Defenses -- Chairs: Judy Teale, U Texas-San Antonio; Gyongyi Szabo, U Mass-Worcester

- 1021 In vitro and in vivo alcohol exposure decreases antigen-presentation capacity of myeloid dendritic cells and contributes T cell anergy.
P. Mandrekar, D. Catalano, A. Dolganiuc and G. Szabo
- 1318 XBP-1 mediates a synergistic type I IFN response in cells experiencing endoplasmic reticulum stress.
R.A. Colbert, M.J. Turner, D. Hong, M.L. DeLay and J.A. Smith
- 1511 Innate mechanisms modified by stress-induced catecholamines increase host susceptibility to Listeria.
R.T. Emeny, J.G. Ault and D.A. Lawrence
- 1797 LL-37 modulates the induction of apoptotic pathways and cytokine signaling in human neutrophils.
Y. Li, D.D. Davidson and R.E. Hancock
- 1759 Regulation of neutrophil function by HSP72 and GM-CSF.
G.F. Babcock, A. Osterburg and S. Schwemberger
- 1376 Zymosan-induced astrocytes produce cytokines dependent on Toll-like receptor 2 and dectin-1.
B.B. Mishra, H.S. Grewal and J.M. Teale
- 1714 Novel role for chronic stimulation of Nod2 in mediating tolerance to bacterial products.
C. Abraham, J. Li, J.H. Cho and M. Hedl
- 1571 Role of IL-12 in host defense against respiratory tularemia.
S. Olmos and D.W. Metzger

Room 304 Regulatory T Cells in Autoimmunity -- Chairs: Matthias von Herrath, LIAI; Michele Kosiewicz, U Louisville

- 318 Defective DNA binding of mutated Stat5B in regulatory T cells from NOD mice.
A. Davoodi-Semiromi, S. Corp, S. Litherland and M. Clare-Salzler
- 336 CD38 is required for peripheral survival of tolerogenic CD4 + iNKT cells in NOD mice.
Y-G. Chen, S. Wilson, E. Leiter and D. Serreze
- 903 Molecular basis of suppression of autoimmunity by CD8 + t cells in lupus-prone BWF1 mice.
R.P. Singh, F.M. Ebling, A.L. Cava and B.H. Hahn
- 960 Expansion of CD4 + CD25 + suppressive regulatory T cells from rhesus macaques peripheral blood by FN18/anti-human CD28 coated dynal beads.
G. Balgansuren, C.K. Asiedu, J. Goodwin, U. Jargal, L.A. Deckard and J.M. Thomas
- 1070 The IL4R α chain-binding cytokines, IL4 and IL13, induce Foxp3 expressing CD25 + CD4 + regulatory T cells from CD25-CD4 + precursors.
A. Skapenko, J.R. Kalden, P.E. Lipsky and H. Schulze-Koops
- 1274 CD4 + CD25 + regulatory T cells are activated in vivo by recognition of self.
J. Andersson, I. Stefanova, G.L. Stephens and E.M. Shevach
- 1391 The role of regulatory T cells in the control of prostate inflammation.
B. Charbonneau, M. Cohen, R. Jensen and T. Ratliff
- 1835 Androgen-mediated increases in CD4 + CD25 + CD103 + cell percentages and function correlate with resistance to autoimmune disease.
M.M. Kosiewicz, D. Nebane-Ambe, P. Alard, J.N. Manirarora and S. Parnell

Room 306 Recombination-Isotype Switch-Recombination -- Chairs: Rachel Gerstein, U Mass; Janet Stavnezer, U Mass

- 78 A transcriptional pathway for initiation of V(D)J recombination in uncommitted hematopoietic progenitors.
L. Borghesi, J. Aites, S. Nelson, P. Lefterov, P. James and R. Gerstein
- 156 Regulation of V(D)J recombination by transcription.
I. Abarategui and M. Krangel
- 1561 Dynamic regulation of RAG during late stages of T cell development.
L.K. McNeil and K.A. Hogquist
- 1622 A role for the IgH intronic enhancer, E μ , in limiting IgH expression to a single allele.
F. Li, Y. Yan and L.A. Eckhardt
- 842 The histone methyltransferase Suv39h1 increases class switch recombination specifically to IgA.
J. Stavnezer, S.P. Bradley, M. Koulis, A.H. Peters, T. Jenuwein and M. Schmidt
- 1055 Role of Toll-like receptor in the induction of activation-induced cytidine deaminase and class switch recombination.
K. Takatsu, Y. Tsukamoto and M. Kaisho
- 1593 The translesion DNA polymerase θ plays a dominant role in immunoglobulin gene.
H. Zan, N. Shima, Z. Xu, A. Al-Qahtani, A.J. Evinger, J.C. Schimenti and P. Casali
- 216 Analysis of somatic hypermutation in X-HlgM syndrome reveals a unique pattern consistent with targeting during DNA replication.
N.S. Longo, S. Yavuz, P. Krijger and P.E. Lipsky

Room 309 Trafficking of Immune Cells -- Chairs: Doug Steeber, U Wisconsin; Mike Dustin, NYU

- 1863 Mast cell activation modulates lymph node populations of multiple dendritic cell subsets.
W. Dawicki, D.M. Jawdat and J.S. Marshall
- 1861 Alterations in cognate activation of naive CD8 + T cells control differentiation in effector and central memory cells.
K. Pechhold, S. Chakrabarty, X. Zhu and D.M. Harlan
- 1761 Dendritic cells amplify T cell-mediated immune responses in the central nervous system.
Z. Fabry, J. Karman and M. Sandor
- 421 Cathepsin G modulates hapten-specific T cell priming for contact hypersensitivity.
D.D. Kish and R.L. Fairchild
- 1777 Lack of lymphocyte recirculation affects cellularity but not development of Peyer's patches.
R.M. Conway, H. Subramanian, M. Kodera, T. Kadono and D.A. Steeber
- 1760 Submandibular lymph node plays an essential role in antigen presentation and immunity of the eye.
P. Zamiri, C. Pitsillides and C.P. Lin
- 1425 Mycobacterium avium paratuberculosis-specific antibody and T cell responses correlate with murine colitis and Crohn's disease.
U.P. Singh, S. Singh, R. Singh, F.D. Quinn and J.W. Lillard
- 500 Chronic alcohol consumption compromises bone marrow release and migration of natural killer cells.
H. Zhang and G.G. Meadows

Room 311 Transplantation Immunology II -- Chairs: Megan Sykes, Harvard U; Charles Via, USUHS

- 1647 Dual role of 4-1BB signaling in the regulation of CD4 + CD25 + FoxP3 + T regulatory cell function.
K.G. Elpek, E.S. Yolcu, C. Lacelle, D.D. Franke and H. Shirwan
- 514 CpG-activated facilitating cells upregulate cytokines and costimulatory molecules associated with regulatory T cell tolerance.
K.N. Taylor, E. Cohick and Y.L. Colson
- 174 Disparate role of light in organ specific donor T cells' activation and effector molecules in MHC class II disparate GVHD.
G.R. Brown, B. Whittington and G. Lane
- 745 Critical role of LIGHT-HVEM interaction in the pathogenesis of GVHD.
Y. Xu, A. Flies, G. Zhu, S. Flies, S. Anand, H. Xu, L. Chen and K. Tamada
- 1141 Defective humoral immunity in SCID mice after in utero transplantation with allogeneic bone marrow.
M.J. Carlson, R. McElmurry, A. Panoskaltis-Mortari, B. Blazar and T. Waldschmidt
- 1399 Correlation of NK cell cytotoxicity with engagement of killer inhibitory receptors with HLA ligands.
M. Han, M. Fallena, Y. Guo and P. Stastny
- 1165 TNF/TNFR interactions are critical for development and effector functions of hepatic and splenic cytotoxic T cells in MHC class I disparate MLC and GVHD.
G.R. Brown, B. Whittington, J.M. El-Hayek and G. Lane
- 1829 Fas has both maturational and down regulatory roles in CD8 + cytotoxic T lymphocytes in murine graft-versus-host disease.
I. Puliaeva, R. Puliaev and C.S. Via

TUESDAY, MAY 16 -- 8:00 AM

Room 302 Effective and Defective Responses to Chronic Infections -- Chairs: E. John Wherry Wistar Inst; Young Hahn, U Virginia

- 392 IFN γ -induced loss of TLR tolerance correlates with increased monocyte activation in chronic HCV infection.
A. Dolganiuc and G. Szabo
- 395 Dendritic cells are required for the immunotherapeutic clearance of a persistent viral infection.
D.B. McGavern, H. Lauterbach, E.I. Zuniga and P. Truong
- 417 Blocking IL-10 in vivo during chronic pulmonary *M. tuberculosis* infection promotes Th-1 immune responses and improves survival.
J. Turner and G.L. Beamer
- 989 Cognate antigen is required for virus-specific CD8 T cell persistence during chronic infection.
E.J. Wherry and H. Shin
- 1268 HCV core suppresses human dendritic cell function through gC1qR-dependent suppression of IL-12.
S.N. Waggoner and Y.S. Hahn
- 1650 Properties of antigen-specific CD4 T cells during chronic viral infection.
V. Vezyts, D.L. Barber, D.R. Latner and R. Ahmed
- 1710 Deficient CD8 + T cell recall responses following chronic antigen stimulation with influenza virus.
C.M. Bucks, A. Borowski, C. Petrovas and P.D. Katsikis
- 1849 In vitro expansion and increased circulating frequency of FOXP3 + CD4 + CD25 + Tregs from patients with chronic hepatitis C virus infection.
K-M. Chang, H. Ebinuma and Y. Li

Room 306 The Immunological Synapse -- Chairs: Mike Dustin, NYU; Darrel Irvine, MIT

- 610 Immunological synapse arrays: patterned protein surfaces that modulate immunological synapse structure formation in T cells.
D. Irvine and J. Doh
- 1702 Molecular dynamics of B cell synapse formation modeled in silico.
S. Raychaudhuri, P. Tsourkas and S.I. Simon
- 718 CD28:CD80 interactions mediate antigen independent T cell adhesion and ring junction formation.
V.K. Thomas and M.L. Dustin
- 58 Role of CD44 in dendritic cell–T cell immunological synapse.
V.L. Hegde, P.S. Nagarkatti and M. Nagarkatti
- 1047 TCR-dependent cell response is modulated by the timing of CD43 engagement.
Y. Rosenstein, N. Fierro and G. Pedraza-Alva
- 1433 Dynamic interactions in T-cell priming modulated by altered peptide ligands.
S. Henrickson, T.R. Mempel, I.B. Mazo and U.H. Von Andrian
- 840 Patterning of MHC class I protein and its segregation from ICAM-1 at NK cell synapses reflects its cell surface density.
C.R. Almeida and D.D. Davis
- 1543 T-T synapses during ongoing immune responses.
C.A. Sabatos, S. Chakravarti, D. Wu, P.G. Pandurangi, A.J. Tooley and M.F. Krummel

Room 310 Chemokines and Leukocyte Recruitment -- Chairs: Andrew Lichtman, Brigham & Women's Hosp; Tom Issekutz, IWK Children's Hospital

- 615 T-bet-dependent CXCR3 expression is required for cardiac migration of pathogenic cytotoxic T lymphocytes.
V. Taqueti, N. Gracie, R. Colvin, P. Jarolim, A. Luster, L. Glimcher and A. Lichtman
- 897 Role of CXCR3 and BLT1 in CD4 + T cell recruitment to the central nervous system in experimental autoimmune encephalomyelitis.
G.M. Weir, R.A. Sporici, K. Mohan and T.B. Issekutz
- 1430 Statins, inhibitors of HMG CoA reductase, directly affect morphology and migration of activated CD4 T lymphocytes.
K. Arora, C.M. Hill, I.G. Reischl, T. Chen and S. Kozlowski
- 355 Late apoptotic T cells and neutrophils are professional chemokine scavengers: regulation of CCR5 expression by cell death.
A. Ariel, G. Fredman, S.P. Yee and C.N. Serhan
- 228 Transepithelial migration of T lymphocytes is an active multi-step process resulting in their luminal clearance.
J.C. Porter and A. Hall
- 391 Complex regulation of lung inflammation and collagen turnover by CCL18.
K. Pochetuhel, I.G. Luzina, V. Locketell, N. Nacu and S.P. Atamas
- 401 Regulation of Ca²⁺ signaling and chemotaxis in phagocytes by ADPR, a novel second messenger in immune cells.
S. Partida-Sanchez, R. Fliegert, A. Gasser, H. Bhagat, T.F. Walseth, A.H. Guse and F.E. Lund
- 225 Macrophage migration inhibitory factor induces macrophage recruitment.
J. Gregory, E. Morand, S. McKeown, J. Ralph and M. Hickey

Room 312 Hematopoietic Stem Cells and Progenitors: Regulators of Self-Renewal versus Early Lineage Restrictions-- Chairs: Gerald Spangrude, U Utah; Barbara Kee, U Chicago

- 581 The interferon-inducible GTPase LRG-47 is required for the hematopoietic stem cell response to proliferative stimuli.
C. Feng, D. Weksberg, M. Goodell and A. Sher
- 910 BAZF-deficient mice have unusual alterations in hematopoietic progenitor cell activity similar to that of BCL-6 deficient mice.
A. Dent, H. Broxmeyer, S. Sehra and S. Kusam
- 1203 Characterization of thymocyte progenitors in mouse bone marrow.
H. Wang, L.J. Pierce and G.J. Spangrude
- 473 Hematopoietic stem/progenitor cells express functional Toll-like receptors that potentially stimulate replenishment of the innate immune system.
Y. Nagai, K.P. Garrett, S. Ohta, B. Uleng, S. Akira and P.W. Kincade
- 1602 Identification of a novel T cell progenitor from peripheral blood.
A. Krueger and H. Von Boehmer
- 1704 LIM domain binding protein 1 is required for the maintenance of adult hematopoietic stem cells.
L. Li, M. Gorivodsky, Y. Zhao, I. Tzchori, A. Grinberg, H. Westphal and P.E. Love
- 1782 Selective thymus settling by multipotent progenitors.
A. Bhandoola, B.A. Schwarz, A. Sambandam, P. Love and M. Velez
- 1595 Id2 antagonizes E2A-mediated inhibition of natural killer cell differentiation at a stage after lineage specification.
B. Kee and M.D. Boos

Room 313 Antigen Processing--Intracellular Events -- Chairs: Jim Drake, Albany Med Coll; Janice Blum, Indiana U

- 608 ERAAP and MHC class I molecules collaborate to generate the exact length of antigenic peptides in the endoplasmic reticulum.
T. Kanaseki, N. Blanchard, G.E. Hammer, F. Gonzalez and N. Shastri
- 830 Double-stranded RNA-induced type I IFN induces immunoproteasomes during viral infection.
E-C. Shin, U. Seifert, C.M. Rice, S.M. Feinstone, P-M. Kloetzel and B. Rehermann
- 1476 Early kinase-mediated BCR signaling dispensable for internalization of BCR-antigen complexes but not for BCR trafficking.
A. Caballero, B. Katkere and J.R. Drake
- 471 Lamp-2 deficient B cells exhibit altered MHC class II antigen presentation.
V.L. Crotzer and J.S. Blum
- 591 MHC class II loading compartments continuously receive input from autophagosomes.
D. Schmid, M. Pypaert and C. Munz
- 286 A cell-free recapitulation of antigen processing for MHC class II: HLA-DM is a key player in the selection of immunodominant epitopes.
I.Z. Hartman, W.P. Griffith, D. Wang, K.M. Walter, R.J. Cotter and S. Sadegh-Nasseri
- 1722 Distinct requirements for the processing and presentation of influenza hemagglutinin-derived epitopes.
G. Sinnathamby and L.C. Eisenlohr

TUESDAY, MAY 16 -- 10:15AM

Room 304 T Cell Memory to Pathogens -- Chairs: Michael Starnbach, Harvard U; Dawn Jelley-Gibbs, Trudeau U

- 248 Towards the complete account of T cell specificities directed against vaccinia virus.
M. Moutaftsi, B. Peters, V. Pasquetto, J. Sidney, H-H. Bui, H. Grey, D. Tscharke, J. Yewdell and A. Sette
- 278 Antigen presentation following clearance of influenza virus has dramatic consequences for CD8 effector and memory T cell generation.
D.M. Jelley-Gibbs, D.M. Brown, J.P. Dibble and S.L. Swain
- 475 Central memory CD8 + T cells mediate optimal recall responses to respiratory virus infections.
H. Hikono, J. Kohlmeier, S. Wittmer, A.D. Roberts and D.L. Woodland
- 778 Manipulating the rate of memory CD8 T cell generation after infection.
V. Badovinac and J. Harty
- 1330 Avidity of CD8 T-cells sharpens immunodominance.
A. Dzutsev, I. Belyakov, D. Isakov and D. Margulies
- 1620 CD8 T cell modulation of respiratory syncytial virus vaccine-enhanced disease.
M.R. Olson and S.M. Varga
- 1768 Mechanisms regulating CD8 T cell memory differentiation.
V. Kalía, S. Sarkar, S.M. Kaech, L.E. Harrington and R. Ahmed
- 1846 Preferential accumulation of effector memory CD8 T cells following secondary and tertiary infections: implications for prime-boost vaccination and memory differentiation. *D. Masopust, S-J. Ha, V. Vezys and R. Ahmed*

Room 306 Regulation and Interventions of Signal Pathways in Immune Cells -- Chairs: Jonathan Harton, U South Florida; Jenny Ting, U North Carolina, Chapel Hill

- 1429 STAT regulation for controlling NK cell IFN- γ response during viral infections.
T. Miyagi, M.P. Gil, J.E. Thaxton and C.A. Biron
- 1586 Pyrin-only protein 2 inhibits NF- κ B location and activity.
F. Bedoya, L.L. Sandler and J.A. Harton
- 775 The anti-inflammatory CATERPILLER/NOD protein, Monarch-1, is regulated by Hsp90.
J.C. Arthur, J.D. Lich, R.K. Aziz, M. Kotb and J.P-Y. Ting
- 631 HMGB1 is a cofactor for TLR9 in mediating cellular responses to immunostimulatory DNA.
W-M. Chu, S.S. Ivanov and A-M. Dragoi
- 1309 The role of CD81 cysteines in the function of the CD19/CD21 coreceptor complex.
Y. Wang and S.K. Pierce
- 379 Aurora B regulates CD4 T cell expansion mediated by CD28 cosignals.
J. Song, M. Tatsuka and M. Croft
- 1457 GSK3 β promotes clonal contraction of activated T cells.
S. Sengupta, C.R. Casella and T.C. Mitchell

Room 311 Protective Mucosal Immune Responses-- Chairs: Akiko Iwasaki, Yale U; Leo Lefrancois, U Conn

- 1158 Processed viral antigens persist in the draining lymph nodes of the respiratory tract after influenza virus infection.
L.S. Cauley, K.M. Khanna, D.L. Turner and L. Lefrancois
- 455 Mechanism of Th1-mediated antiviral mucosal immunity.
N. Iijima and A. Iwasaki
- 49 Characterization and epitope identification of unique anti- Bacillus anthracis spore antibodies that confer passive protection in vivo.
E. Dobrinen, G. Watts, J. Burritt, M. Clark, C. Olds, P. Glee, A. Imrich and L. Kobzik
- 857 Vaginal protection and immunity following intranasal immunization with Listeria monocytogenes.
X. Zhao, M. Zhang, P. Aggarwal, Z. Li, C. Zhou and F.R. Frankel
- 198 Innate resistance to amoebiasis is mediated by nonhemopoietic cells but controlled by hemopoietically-derived IL-10.
E.R. Houpt, A. Asgharpour, S. Stroup, T. Wynn, E. Leiter and S. Hamano
- 1555 Is bacterial translocation depending of IgA production in a gut?
N.V. Boyko, K.V. Krytska, N. Kushnir, D. Kobuley, M. Stoel, N.A. Bos and J.J. Cebra
- 1756 Epithelial cell-specific deletion of ikk β reveals a critical role for epithelial cells in regulating CD4 T cell responses and immunity to infection in the gastrointestinal tract. *D. Artis, C. Zaph, F. Greten, L. Eckmann and M. Karin*

Room 313 Cross Presentation -- Chairs: Pramod Srivastava, U Conn; Lakshmi Ramachandran, Case Western Reserve U

- 208 Human plasmacytoid dendritic cells of melanoma patients present exogenous proteins to CD4 + T cells after Fc γ RII-mediated uptake.
D. Benitez-Ribas, G. Adema, C. Punt, C. Figdor and I. De Vries
- 1014 Efficient cross-presentation of cellular antigen requires proteasome and heat shock protein activity.
M.K. Callahan, R.B. Pickering, M. Garg, R.J. Binder and P.K. Srivastava
- 1395 Cells bearing a ligand for the cysteine rich region of the mannose receptor mediate Ag transport to follicular dendritic cells.
R. Roozendaal, A. Verschoor, T.R. Mempel, T.J. Schneider, L. Martinez-Pomares, S. Gordon, U. Von Andrian and M.C. Carroll
- 1574 Transfer of peptide-MHC class I complexes from necrotic cells to dendritic cells enhances CD8 + T cell activation.
B.P. Dolan, K.D. Gibbs, Jr. and S. Ostrand-Rosenberg
- 1676 Structural basis for calreticulin binding to the heat shock protein receptor CD91.
R.E. Vatner, R.J. Binder and P.K. Srivastava
- 649 Mizoribine inhibits in the presentation of exogenous particulate antigen association with class I major histocompatibility in bone marrow-derived dendritic cells and DC2.4 cell line. *K. Kim, S. Han, Y. Song, H. Kong and C-K. Lee*
- 698 Bryostatins act as a TLR-4 ligand in maturation of dendritic cells.
R. Ramakrishnan, N. Singh, M. Nagarkatti and P. Nagarkatti