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1909 Interference with Virus Infection
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   A. Isaacs and J. Lindenmann

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   A. Isaacs, J. Lindenmann, and R. C. Valentine

BRIEF REVIEWS

1927 Donor Unrestricted T Cells: A Shared Human T Cell Response
   Ildiko Van Rhijn and D. Branch Moody

1933 Age-Associated B Cells: A T-bet–Dependent Effector with Roles in Protective and Pathogenic Immunity
   Kira Rubtsova, Anatoly V. Rubtsov, Michael P. Cancro, and Philippa Marrack

CUTTING EDGE

1939 Cutting Edge: cGAS Is Required for Lethal Autoimmune Disease in the Trex1-Deficient Mouse Model of
   Aicardi–Goutières Syndrome
   Elizabeth E. Gray, Piper M. Trewing, Joshua J. Woodward, and Daniel B. Stetson

On the cover: Head of a juvenile medaka fish carrying fluorescent markers for chemokine receptors ccr9a (green) and ccr9b
   (red). ccr9a+ cells are located in the thymus, skin, and other tissues, whereas ccr9b+ cells are preferentially located in
   the thymus. Both receptors are involved in guiding thymocytes and triggering steps in their maturation. Bajoghli, B., P. Kuri,
AUTOIMMUNITY

1945 Radiosensitive Hematopoietic Cells Determine the Extent of Skin Inflammation in Experimental Epidermolysis Bullosa Acquisita

1955 Genetic Interaction between Lyn, Ets1, and Btk in the Control of Antibody Levels
Jessica Mayeux, Brian Skang, Wei Luo, Lisa M. Russell, Shinni John, Prontip Saelee, Hanuua Abbasi, Quan-Zhen Li, Lee Ann Garrett-Sinha, and Anne B. Satterthwaite

1964 The T Cell Repertoire–Diversifying Enzyme TSSP Contributes to Thymic Selection of Diabetogenic CD4+ T Cell Specificities Reactive to ChgA and IAPP Autoantigens
Christophe Viret, Karim Mahiddine, Rocky Lee Baker, Kathryn Hashkins, and Sylvie Gueuder

1974 IL-7/IL-7 Receptor Signaling Differentially Affects Effector CD4+ T Cell Subsets Involved in Experimental Autoimmune Encephalomyelitis
Carlos A. Arbelaez, Simon Glatigny, Rebekka Duben, Gerard Eberl, Mohamed Oukka, and Estelle Bettelli

CLINICAL AND HUMAN IMMUNOLOGY

1984 Au-ACRAMTU-PEt3 Alters Redox Balance To Inhibit T Cell Proliferation and Function
P. Kent Langston, Mu Yang, Ulrich Bierbach, Derek Parsonage, Leslie B. Poole, Madeline J. Price, and Jason M. Grayson

1995 The Raf Kinase Inhibitor Sorafenib Inhibits JAK–STAT Signal Transduction in Human Immune Cells

2006 Chronic Psoriatic Skin Inflammation Leads to Increased Monocyte Adhesion and Aggregation
Jackelyn B. Golden, Sarah G. Grofi, Michael V. Squier, Sara M. Debanne, Nicole L. Ward, Thomas S. McCormick, and Kevin D. Cooper

2019 γ-Tilmanocept, a New Radiopharmaceutical Tracer for Cancer Sentinel Lymph Nodes, Binds to the Mannose Receptor (CD206)
Abul K. Azad, Murugesan V. S. Rajaram, Wendy L. Metz, Frederick O. Cope, Michael S. Blue, David R. Vera, and Larry S. Schlesinger

2020 Phenotypic Complexity of the Human Regulatory T Cell Compartment Revealed by Mass Cytometry
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2021 mTOR Inhibition Per Se Induces Nuclear Localization of FOXP3 and Conversion of Invariant NKT (iNKT) Cells into Immunosuppressive Regulatory iNKT Cells
Charlotte M. Huijts, Famke L. Schneiders, Juan J. Garcia-Vallejo, Henk M. Verheul, Tanja D. de Gruijl, and Hans J. van der Vliet

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2037 Nucleotide-Induced Membrane-Proximal Proteolysis Controls the Substrate Specificity of T Cell Ecto–ADP-Ribosyltransferase ARTC2.2
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2090 B Lymphocyte–Specific Loss of Ric-8A Results in a Gα Protein Deficit and Severe Humoral Immunodeficiency
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2103 Id3 Controls Cell Death of 2B4+ Virus-Specific CD8+ T Cells in Chronic Viral Infection
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2115 The Neonatal CD4+ T Cell Response to a Single Epitope Varies in Genetically Identical Mice
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