The American Association of Immunologists Timeline Imag@redits

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Panel 1(1913-1928)

Science and Immunology Images 1913 –

1925 - "Great Race of Mercy": Library of Congress, Prints and

- 1927 Photo by American Commercial Photographers, St. Louis, MO; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1928 Photo by International Newsreel; Library of Congress, Prints and Photographs Division, New York Wold-Telegram and the Sun Newspaper Photograph Collection.

Panel2 (1929-1940)

Science and Immunology Images

- 1929 "The Roscoe B. Jackson Memorial Laboratory": WHO photo; National Library of Medicine, Images from the History of Medicine.
- 1930 "Karl Landsteiner (AAI '22)": Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1930 "The Ransdell Act": National Library of Medicine, Images from the History of Medicine.
- 1930 "Rudolf Weigl": National Libary of Medicine, Images from the History of Medicine.
- 1931 "First electron microscope": Photo by T. Farkas for WHO; National Library of Medicine, Images from the History of Medicine.
- 1932 "U.S. Public Health Service": National Archives, Atlanta, Records of the Centers for Disease Control and Prevention, 1921–2006.
- 1933 "Report on hazardous effects of radium dial painting": University of Medicine and Dentistry of New Jersey, University Libraries Special Collections, U.S. Radium Corporation, East @ange, NJ, Recordsac19174940.
- 1934 "Ida Bengtson": National Library of Medicine, Images from the History of Medicine.
- 1935 "Prontosil":

- U.S./World Images
- 1929 –Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1931 Works Progress Administration photo; National Archives, College Park, MD, Still Pictures, Record Group 69: Records of the Work Projects Administration, 1922–1944.
- 1932 Cover, Brave New Worldst ed., London: Chatto & Windus, 1932.
- 1933 Photo by J. Sherrel Lakeybrary of Congress, Prints and Photographs Division, Farm Security Administration/Office of War Information Blacked White Negatives
- 1936 –Library of Congress, Prints and P**bgt**aphs Division, Miscellaneous Items in High Demand.
- 1937 U.S. Navy historical photo; Joint Base McG Dine-Lakehurst Photo Archive.
- 1939 National Archives, College Park, MD, Still Pictures, Jerome R. Lilienthal Stereographic Collection Relating to the German Invasion of Poland, 1939.
- 1940 –Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.

- 1948 "Jacques Oudin (Al. '54) and Örjan Ouchterlony' Figure 3 from Keith E. Jensen and Thomas Francis, Jr., "Antige Antibody Precipitates in Solid Medium with Influenza Virus," The Journal of Immunology 70, no. 3 (1953): 321–25.
- 1948 "George Snell and Peter Gorer": Natidribrary of Medicine, Images from the History of Medicine.
- 1948 "Astrid Fagraeus (AAI '71)": Peter Maslak, ASH Image Bank, © American Society of Hematology.
- 1948 "William Stein and Stanford Moore": U.S. Food and Drug Administration.
- 1949 "F. Macfarane Burnet (AAI '61) and Frank Fenner": Courtesy of the Lasker Foundation.
- 1949 "Wallace Coulter": Wikimedia Commons
- 1949 "Carbon Dating" Smithsonian National Museum of Natural History.
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- 1949 Cover, George Orwell, Nineteen Eiglhour, 1st ed., London: Secker and Warburg, 1949.
- 1950 U.S. Air Force photo; National Archives, College Park, MD, Still Pictures, Record Group 342: Records of U.S. Air Force Commands, Activities, and Organizations, 1900–2003.
- 1951 Photo by Marjory Collins; Library of Congress, Prints and Photographs Division, Farm Security Administration/Office of War Information Blacknd-White Negatives.
- 1952 Cover, Anne Frank, The Diary of a Young, **Gist** hardcover ed., New York: Doubleday, 1952.

Panel 4 (19531964)

Science and Immunology Images 1953 – "Acquired immunological tolerance":

- 1959 "IgA": Icon created by Rings Leighton Design Group for AAI.
- 1960 "Radioimmunoassay (RIA)": Courtesy of the Department of Chemistry, Michigan State University.

1960 –

- 1971 "Otto Götze (AAI '72) and Hans Müllerberhard (AAI '62)": Photo by James Gathany CDC Public Health Image Library
- 1971 "Ag-specific recruitment of T cells": AAArchives
- 1971 "Measles, Mumps, Rubella (MMR) vaccine": Centers for Disease Control and Prevention/Meredith Hickson; CDC Public Health Image Library
- 1971 "Baby born with SCID": NASA Johnson Space Center.
- 1972 "Affinity threshold": Courtesy of The Scripps Research Institute.
- 1973 "Dendritic cells": Cell art by AAI Staff.
- 1973 "Natural Killer (NK)": Cell art by AAI Staff.
- 1973 -

Panel6 (1976-1988)

Science and Immunology Images

- 1976 "Crosspriming": AAI Archive.
- 1976 "Immunoglobulin gene rearrangeme@durtesy of FASEB.
- 1976 "First known Ebola virus outbreak": Photo by Frederick Mur**Dey**nters for Disease Control and Preventin; CDC Public Health Image Library
- 1976 "The role of protoncogenesone3((a)4 Pes)]ublon1976 56.41<226

- 1985 "Model of mast cell engraftment": Cover photo from The Journal of Immunology 190, no. 4 (2013); photo by Anne Y. Liu, Dan F. Dwyer, Tatiana G. Jones, Lora G. Bankova, Shiliang Shen, Howard R. Katz, K. Frank Austænd Michael F. Gurish.
- 1985 "The NIH budget" tcon created by Rings Leighton Design Group for AAI.
- 1986 "Th1/Th2 subsets": Cell art by AAI Sta
- 1986 "Missing self theory": Icon created by Rings Leighton Design Group for AAI.
- 1986 "NF % Coverphoto from The Journal of Immunology 175, no. 12 (2005) to by Adrian F. Arechiga, Bryan D. Bell, Jennifer C. Solomon, Isaac H. Chu, Clairelloib, Brian E. Hall, Thaddeus C. George, David M. Coder, and Craig M. Walsh.
- 1986 3 / 7 FHOOV′ & HOO DUW E\\$\$, 6WDII
- 1987 "Negative selection":i@fure 1178 from Henry Gray, Anatomy of the Human Bo20yth ed.,

Panel 7 (19892000)

Science and Immunology Images

- 1989 37*) Image by Michael Sporn, National Cancer Institute CI Visuals Online
- 1989 "Hygiene hypothesis": Photo from "Allergy Relief for Your Child," FDA Consumer Health Information UpdateJ.S. Food and Drug Administration, September 2011.
- 1990 ³, J. DQG, J´, PDJH IURP) LJXUH LQ Wasif N. Khan, "B Cell Recep Receptor Signaling Regulation of B Cell Homeostasis," The Journal of Immunt 36gy no. 6 (2009): 3561–67.
- 1990 "IL-10": Icon created by Rings Leighton Design Group for AAI.
- 1990 "Role of IL4": Icon created by Rings Leighton Design Group for AAI.
- 1990 ³ ' H O H W LrRicogRobulin²: Photo by Maggie Bartlett, National Human Genome Research InstituteNHGRI Digital Media Database
- 1991 "Preferred amino acids": Figure 5 from Fuliang Chu, Zhiyong Lou, Yu Wai Chen, Yiwei Liu, Bin Gao, Lili Zong, Abdul Hamid Khan, John I. Bell, Zihe Rao, and George F. Gao, "First Glimpse of the Peptide Presetion by Rhesus Macaque MHC Class I: Crystal Structures of Mamua*01 Complexed with Two Immunogenic SIV Epitopes and Insights into CTL Escape," The Journal of Immunology, no. 2 (2007): 944–52.
- 1991 "Role of Th1/Th2" Photo by Buce Wetzel and Hay Schaefer, National Cancer Institute, NCI Visuals Online
- 1991 "Recombinant ©SF (Filgrastim)": Icon created by Rings Leighton Design Group for AAL
- 1991 "First definitive identification of a tumor antigen": National Cancer Institute; NCI VisualsOnline
- 1992 "Ly49 receptors": Image froffigure 3 in Jacques Deguine, Béatrice Breart, Fabrice Lemâtre, and Philippe Bousso, "Cutting Edge: Turffærrgeting Antibodies Enhance NKG2D-Mediated NK Cell Cytotoxicity by Stabilizing NK Cell–Tumor Cell Interactions," The Journal of Immunology89, no. 12 (2012): 5493–97.
- 1992 "Role of Fas" tcon created by Rings Leighton Design Group for AAI.
- 1993 "First report of spontaneous autoimmune disease": ImageFfgorre 1 in Hongmei Li, Bardia Nourbakhsh, Farinaz Safavi, Ke Li, Hui Xu, Melissa Cullimore, Fang Zhou, Guangxian Zhag and Abdolmohamad Rostami, "Kit (∜) Mice Develop Earlier and More Severe Experimental Autoimmune Encephalomyelitis Due to Absence of Immune Suppression," The Journal of Immunolog 7, no. 1 (2011): 274–82.
- 1993 "Role of IL12": Icon created by Rings Leighton Design Group for AAI.
- 1993 "Receptor editing'Cover photo from The Journal of Immunology, no. 12 (2012); photo by Eric B. Wong, Tahsin N. Khan, Chandra Mohan, Ziadr S. M. Rahman.
- 1994 "CTLA4": Icon created by Rings Leighton Design Group for AAI.
- 1995 "CD4CD25[†] cells": Courtesy of Kim J. Hasenkrug, Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases.

- 1995 "First dendriticed vaccine trial": CDC Public Health Image Library
- 1996 "Toll": Photo by Sriram Subramaniam for the National Cancer Institute; National Institutes of Health, NIH Image Bank.
- 1996 "CXCR4": National Institute of Allergy and Infectious Diseases.
- 1996 "MHC I tetramers": Figure 1 from Yan Wu, Feng Gao, Jun Liu, Jianxun Qi, Emma Gostick, David A. Price, and George F. Gao, "Structural Basis of Diverse Peptide Accommodation by the Rhesus Macaque MHC Class I Molecule Mathra: Insights into Immune Protection from Simian Immunodeficiency Virus," The Journal of Immunology187, no. 12 (2011): 6382–92.
- 1996 "A mutation in the gene encoding CCR5": Cecil H. Fox, National Cancer Institute.
- 1996 "Microarrays": Originally in Sandeep S. Dave et al., "Moleculagobisis of Burkitt's Lymphoma," New England Journal of Medicine 354, no. 23 (2006): **24(32)** National Cancer Institute, NCI Visuals Online.
- 1997 "Anti-CD20 mAb (Rituximab)": Icon created by Rings Leighton Design Group for AAI.
- 1997 "First AIDS "cockail": Image supplied by Rings Leighton Design Group.
- 1998 "Anti-HER-2 mAb (Herceptin)":lcon created by Rings Leighton Design Group for AAI.
- 1998 "Fiveyear doubling of the NIH budgetl'con created by Rings Leighton Design Group for AAI.
- 1999 "Humarplasmacytoid dendritic cellsi mage from Figure 6 in Florentia Pascale, Vanessa Contreras, Michel Bonneau, Alexandre Courbet, Stefan Chilmonczyk, Claudia Bevilacqua, Mathieu Eparaud, Violeta Niborski, Sabine Riffault, Aldaeie Balazuc, Eliane Foulon, aurence Guzylac Piriou, Beatrice Riteau, Jayne Hope, Nicolas Bertho, Bernard Charley, and Isabelle Schwa to Immunolog 180, no. 9 (2008): 596372.
- 1999 "Immunological synapse": Cover photo from The Journal of Immunological synapse (2011); photo by Leslie K. Robertson and Hanne L. Ostergaard.
- 2000 "The follicular T helper cell (Tfh)": Cell art by AAI staff.
- 2000 "M1/M2 subtypes": Figure 1 from Marie Benoit, Benoît Desnues and design Mege "Macrophage Polarization in Bacterial Infections," The Journal of Immuno 16 yno. 6 (2008): 3733–39.

U.S./World Images

- 1989 National Archives, College Park, MD, Still Pictures, Record Group 330: Records of the Office of the Secretary of Defense, 1922008.
- 1990 NASA Public Affairs Image Collection, Shuttle Mission Imagery.
- 1991 Created by Robert Cailliau, CERN; Wikimedia Commons.
- 1993 Photo by Angela Radulescu; Flickr.
- 1994 Poster from Columbia College Chicago Anti Apartheid Movement Collection, African Political Posters.

- 1995 © Disney/Pixar Films.
- 1996 Google.
- 1997 Courtesy of The Roslin Institute, The University of Edinburgh, Roslin, Scotland, UK.
- 1998 Eiger MPMan F20.
- 1999 Wikimedia Commons.
- 2000 Photo by Roger Higgins; Library of Congress, Prints and Photographs Division, New York World-Telegram and the Sun Newspaper Photograph Collection.

Panel 8 (2001-2013)

Science and Immunology Images 2001 – "The term 'microbiome": Photo by Nathan Shankar, University of Oklahoma; digital

- 2006 "First human papillomavirus vaccine": Photd alporatory of Tumor Virus Biology National Cancer InstituteNCI Visuals Online.
- 2006 "PD1": Cell art by AAI staff.
- 2006 "Identification of a relationship": Photo by Debora Carta**@ea**ters for Disease Control and Prevention; CDC Public Health Image Library
- 2007 "The term 'myeloiderived suppressor cells": Photance Liotta Laboratory, National Cancer Institute NCI Visuals Online.
- 2007 "The first complements pecific inhibitor (antiC5)": Icon created by Rings Leighton Design Group for AAI.
- 2008 "Prevælnce of peanut allergy Photo by Karen Williams; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 2009 "Importance of microbiome": Photo by Janice Haney, Camters for Disease Control and Prevention; CDC Public Healthage Library
- 2009 "H1N1 (swine flu) pandemic": Photo by Scott Bauer; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 2009 "The NIH budget": Icon created by Rings Leighton Design Group for AAI.
- 2010 "Nuocytes/natural heer cells/lh2 cells": Centers for Disease Control and Prevention/Mae Melvin; CDC Public Health Image Library
- 2010 "Autologous cellular immunotherapy (Provengle)ön created by Rings Leighton Design Group for AAI.
- 2011 "Bruce Beutler (AAI '06) and Les Hoffman; Ralph Steinman (AAI '75) Beutler portrait by Brian Coats for UT Southwestern; courtesy of UT Southwestern. Steinman portrait courtesy of Rockefeller University.
- 2011 BRAF enzyme inhibition is used for the treatment of melario ProbabChemOpen Chemistry Database.
- 2011 "Roles of different subsets of innate lymphocytes tional Institute of Allergy and Infectious Diseases.
- 2011 "BRAF enzyme inhibition" from created ourt4(1)/a(1)/b(3)6(as)-5(es)3

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2013 – 'Cancer Immunoth**a**py named Breakthrough of the Year by Science magazine": National Institutes of Health.

2013 - "Sequestration":