

The American Association of Immunologists Timeline Image Credits

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Panel 1 (1913–1928)

Science and Immunology Images

- 1913 – “The American Association of Immunologists (AAI)”: Courtesy of Colorado College Special Collections, Colorado Room Photo File, Webb, Gerald B.
- 1913 – “Emil von Behring”: Photo by C. Edward Sachs; National Library of Medicine, Images from the History of Medicine.
- 1913 – “Henry Ford”: Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1914 – “AAI holds its first annual meeting”: AAI Archives.
- 1915 – “Frederick Twort”: Micrograph by Reo Kometani and Shinji Matsui, University of Hyogo; winner of 2005 Micrograph Contest of the International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication (EIPBN); courtesy of EIPBN.
- 1915 – “*The Mechanism of Mendelian Heredity*”: Courtesy of American Philosophical Society.
- 1916 – “*The Journal of Immunology*”: AAI Archives.
- 1916 – “Henrique da Rocha Lima”: National Library of Medicine, Images from the History of Medicine.
- 1916 – “Graft-versus-host disease (GVHD)”: Photo by Paul Almasy for WHO; National Library of Medicine, Images from the History of Medicine.
- 1916 – “The general theory of relativity”: Photo by Oren Jack Turner; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1918 – “The influenza pandemic”: National Archives, College Park, MD.
- 1921 – “Bacillus of Calmette-Guérin (BCG)”: Art by André Wilquin; National Library of Medicine, Images from the History of Medicine.
- 1921 – “Insulin”: Eli Lilly and Company Archives/The New York Historical Society.
- 1921 – “Future U.S. President Franklin D. Roosevelt”: Photo by Margaret Suckley; FDR Presidential Library and Museum.
- 1921 – “Michael Heidelberger (AAI ’35) and Oswald Avery (AAI ’20)”: Avery portrait courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records. Heidelberger portrait from National Library of Medicine, Stanhope Bayne-Jones Papers, Box 53, Folder 32, “Army Epidemiological Board [photographs], 1941–1946.”
- 1924 – “Roscoe Spencer and Ralph Parker”: Photo by Keith Weller; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.

- 1925 – “Great Race of Mercy”: Library of Congress, Prints and Photographs Division, Frank and Frances Carpenter Collection.
- 1926 – “*Microbe Hunters*”: Title page, Paul de Kruif, *Microbe Hunters* (New York: Harcourt Brace, 1926).
- 1926 – “The first liquid-fueled rocket”: Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1928 – “Alexander Fleming (AAI ’14): National Library of Medicine, Images from the History of Medicine.
- 1928 – “The iron lung”: Courtesy of Boston Children's Hospital Archives, Boston, Massachusetts.

Large Lower Images

- Left: G. Terry Sharrer, National Museum of American History; National Cancer Institute, NCI Visuals Online.
- Center: Centers for Disease Control and Prevention/Minnesota Department of Health, R.N. Barr Library; CDC Public Health Image Library.
- Right: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.

U.S./World Images

- 1913 – Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1914 – Photo by H. D. Gridwood; Library of Congress, Prints and Photographs Division, Stenograph Cards.
- 1916 – Library of Congress, Prints and Photographs Division, George Grantham Bain Collection.
- 1917 – Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1918 – Library of Congress, Prints and Photographs Division, World War I Posters.
- 1919 – Photo by William P. Gottlieb; Library of Congress, Music Division, William P. Gottlieb Collection.
- 1920 – Library of Congress, Prints and Photographs Division, New York World-Telegram and the Sun Newspaper Photograph Collection.
- 1921 – Library of Congress, Prints and Photographs Division, National Photo Company Collection.
- 1923 – Library of Congress, Prints and Photographs Division, New York World-Telegram and the Sun Newspaper Photograph Collection.
- 1925 – Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1926 – Sketch by E. H. Shepard.

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 World-Telegram and the Sun Newspaper Photograph Collection.

Panel 2 (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 Library 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, GA, 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 Orange, NJ, Records, ca. 1917–1940.
- 1934 – “Ida Bengtson”: National Library of Medicine, Images from the History of Medicine.
- 1935 – “Prontosil”: Courtesy of the Chemical Heritage Foundation Collections.
- 1935 – ““Ecosystem””: Library of Congress, Prints and Photographs Division, Historic American Engineering Record.
- 1937 – “The National Cancer Institute”: Library of Congress, Prints and Photographs Division, Historic American Buildings Survey.
- 1937 – “The Rocky Mountain Laboratory”: National Library of Medicine, Images from the History of Medicine.
- 1938 – “The National Foundation for Infantile Paralysis”: Photo by Harris & Ewing; Library of Congress, Prints and Photographs Division, Harris & Ewing Collection.
- 1939 – “Arne Tiselius and Elvin Kabat (AAI ’43)”: Icon created by Rings Leighton Design Group for AAI.
- 1940 – “U.S. President Franklin D. Roosevelt”: NIH Almanac Historical Photos, Presidential Images.

Large Lower Images

Left – Courtesy of the University of Melbourne Archives.

Center – National Cancer Institute photo; NCI Visuals Online.

Right – National Library of Medicine/National Cancer Institute photo; NCI Visuals Online.

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 World*, 1st ed., London: Chatto & Windus, 1932.
- 1933 – Photo by J. Sherrel Lakey; Library of Congress, Prints and Photographs Division, Farm Security Administration/Office of War Information Black-and-White Negatives.
- 1936 – Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1937 – U.S. Navy historical photo; Joint Base McGuire-Dix-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.

Panel 3 (1941–1952)

Science and Immunology Images

- 1941 – “Philip Levine (AAI ’25) and colleagues”: National Library of Medicine, Images from the History of Medicine.
- 1941 – “Albert Coons (AAI ’50)”: Photo by Libero Ajello; CDC Public Health Image Library.
- 1941 – “George Beadle and Edward Tatum”: Photo of *Neurospora crassa*; unknown photographer.
- 1942 – “Karl Habel (AAI ’52)”: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1942 – “AAI”: Courtesy of FASEB.
- 1942 – “Jules Freund (AAI ’24) and Katherine McDermott”: Courtesy of the Lasker Foundation.
- 1943 – “Due to a federal moratorium on national meetings”: Poster by Louis Hirshman; Library of Congress, Prints and Photographs Division, Work Projects Administration Poster Collection.
- 1943 – “Salvador Luria (AAI ’58) and Max Delbrück”: Courtesy of FASEB.
- 1944 – “Peter Medawar (AAI ’73)”: National Library of Medicine, Images from the History of Medicine.
- 1944 – “IgM”: Icon created by Rings-Leighton Design Group for AAI.
- 1944 – “Oswald Avery (AAI ’20), Colin MacLeod (AAI ’37), and Maclyn McCarty (AAI ’47)”: Plate 1 from O. T. Avery, C. M. MacLeod, and M. McCarty, “Studies on the Chemical Nature of the Substance Inducing Transformation of Pneumococcal Types: Induction of Transformation by a Desoxyribonucleic Acid Fraction Isolated from *Pneumococcus* Type III,” *Journal of Experimental Medicine* 79, no. 2 (1944): 137–58.
- 1944 – “Selman Waksman”: National Library of Medicine, Images from the History of Medicine.
- 1945 – “Ray Owen (AAI ’66)”: Photo by Jack Dykinga; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 1945 – “First successful test of nuclear bomb (Trinity test)”: Photo by U.S. Army Signal Corps; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1945 – “Science, The Endless Frontier”: Cover, *Science, the Endless Frontier: A Report to the President on a Program for Postwar Scientific Research*, reprint ed., Washington, DC: National Science Foundation, 1960.
- 1946 – “The NIH Division of Research Grants”: Grant Application form, U.S. Department of Health and Public Service, Public Health Services.
- 1947 – “The NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1948 – “John Enders (AAI ’36), Thomas Weller (AAI ’52), and Frederick Robbins (AAI ’52)”: Courtesy of FASEB.

- 1948 – “Jacques Oudin (AAI ’54) and Örjan Ouchterlony”: Figure 3 from Keith E. Jensen and Thomas Francis, Jr., “Antigen-Antibody Precipitates in Solid Medium with Influenza Virus,” *The Journal of Immunology* 70, no. 3 (1953): 321–25.
- 1948 – “George Snell and Peter Gorer”: National Library 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. Macfarlane 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.
- 1950 – “Esther Lederberg”: Esther M. Zimmer Lederberg Memorial Website, www.estherlederberg.com.
- 1951 – “Linus Pauling”: Photo by Caltech News Bureau; Oregon State University Libraries, Special Collections, Linus Pauling and the Race for DNA.
- 1952 – “Jonas Salk (AAI ’47)”: National Library of Medicine, Images from the History of Medicine.
- 1952 – “First open-heart surgery”: Excerpt of poster by Hospital Publications, Inc.; National Library of Medicine, Images from the History of Medicine.

Large Lower Image

Left – Photo by Charles Farmer, Centers for Disease Control and Prevention; CDC Public Health Image Library.

U.S./World Images

- 1941 – U.S. Navy photo; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1942 – © Warner Bros.
- 1943 – Photo by Theodor Horydczak; Library of Congress, Prints and Photographs Division, Theodor Horydczak Collection.
- 1944 – Photo by Jack Delano; Library of Congress, Prints and Photographs Division, Farm Security Administration/Office of War Information Black-and-White Negatives.
- 1945 – Photo by Yould for United Nations.
- 1946 – Vintage Tupperware advertisement; KUED Channel 7, PBS affiliate, The University of Utah.
- 1947 – Photo by Kenneth Eide; Library of Congress, Prints and Photographs Division, LOOK Magazine Photograph Collection.

- 1949 – Cover, George Orwell, *Nineteen Eighty-Four*, 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 Black-and-White Negatives.
- 1952 – Cover, Anne Frank, *The Diary of a Young Girl*, 1st hardcover ed., New York: Doubleday, 1952.

Panel 4 (1953–1964)

Science and Immunology Images

- 1953 – “Acquired immunological tolerance”: Peter Medawar portrait courtesy of National Institute for Medical Research, Mill Hill, London. Rupert Billingham portrait from National Library of Medicine, Images from the History of Medicine.
- 1953 – “James Watson and Francis Crick”: Courtesy of Cold Spring Harbor Laboratory Archives, James D. Watson Collection.
- 1954 – “First successful human kidney transplant”: Photo by Jerry J. Callis, Plum Island Animal Disease Center, and Dr. Brian W. J. Mahy, Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 1954 – “Jean Dausset (AAI ’74)”: Courtesy of Fondation Jean Dausset—Centre d’Etude du Polymorphisme Humaine.
- 1954 – “Anthony Allison”: Photo by Janice Haney Carr, Centers for Disease Control and Prevention /Sickle Cell Foundation of Georgia; CDC Public Health Image Library.
- 1955 – “U.S. Congress”: Image created by AAI/Rings Leighton Design Group.
- 1955 – “Salk vaccine”: Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 1955 – “Neils Jerne (AAI ’65)”: Portrait by Heinz Durrenberger; courtesy of FASEB.
- 1955 – “Ribosomes”: Judith Stoffer, National Institute of General Medical Sciences; NIGMS Image and Video Gallery.
- 1956 – “Bruce Glick (AAI ’70), Timothy Chang, and George Jaap”: Photo by Stephen Ausmus; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 1956 – “Joe Hin Tjio and Albert Levan”: National Human Genome Research Institute; NHGRI Digital Media Database.
- 1956 – “tRNA, DNA polymerase, and mRNA”: Illustration by Darryl Leja, National Human Genome Research Institute; NHGRI Digital Media Database.
- 1957 – “Type I interferon”: National Library of Medicine, Images from the History of Medicine.
- 1957 – “Clonal selection theory”: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1957 – “Matthew Meselson and Franklin Stahl”: National Library of Medicine, Images from the History of Medicine.
- 1957 – “The NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1958 – “Rodney Porter (AAI ’73)”: Wikimedia Commons.
- 1958 – “Francis Crick”: Wikimedia Commons.
- 1958 – “First clinical implantation”: Pacemaker manufactured by Pacesetter Systems, Inc.; Smithsonian National Air and Space Museum.
- 1959 – “Arthur Pardee, François Jacob, and Jacques Monod”: Photo by AAI staff.
- 1959 – “Edmond Fischer and Edwin Krebs”: Wikimedia Commons.
- 1959 – “Mary and Louis Leakey”: Photo by Bjørn Christian Tørrisen; Wikimedia Commons.

- 1959 – “IgA”: Icon created by Rings Leighton Design Group for AAI.
- 1960 – “Radioimmunoassay (RIA)”: Courtesy of the Department of Chemistry, Michigan State University.
- 1960 – “The first micropipette”: Photo by Troy Hall; CDC Public Health Image Library.
- 1960 – “Method of inducing plasma cell tumors”: Photo by Keith Weller; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 1961 – “Rebecca Lancefield (AAI ’33)”: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1961 – “Immunological function of thymus”: AAI Archive.
- 1961 – “Identification of first codon”: National Library of Medicine, Images from the History of Medicine.
- 1961 – “Soviet *Vostok I*”: San Diego Air and Space Museum Archives.
- 1962 – “Athymic nude mice”: Photo by Linda Bartlett, National Cancer Institute; NCI Visuals Online.
- 1962 – “Kefauver-Harris amendment”: U.S. Food and Drug Administration.
- 1962 – “Mixed lymphocyte reaction”: National Cancer Institute photo; NCI Visuals Online.

U.S./World Images

- 1953 – Reproduction of painting by Douglas Granville Chandor; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1954 – Early Television Museum.
- 1955 – Photo by United Press; Library of Congress, Prints and Photographs Division, New York World-Telegram & the Sun Newspaper Photograph Collection.
- 1956 – Photo by Arnold Del Carlo; Courtesy of Sourisseau Academy.
- 1958 – NASA Public Affairs Image Collection, International Space Station Imagery.
- 1960 – Photo by AAI staff.
- 1961 – Photo by Staff Sergeant F. Lee Cockran for U.S. Navy; National Archives, College Park, MD, Still Pictures, Record Group 330: Records of the Office of the Secretary of Defense, 1921–2008.
- 1962 – U.S. Department of Defense photo; National Archives and Records Administration, John F. Kennedy Library, Columbia Point, Boston, MA.
- 1963 – U.S. Department of Defense photo; National Archives, College Park, MD, Still Pictures, Record Group 330: Records of the Office of the Secretary of Defense, 1921–2008.

Panel 5 (1965–1975)

Science and Immunology Images

- 1965 – “David Rowe (AAI ’70) and John Fahey (AAI ’64)”: Icon created by Rings Leighton Design Group for AAI.
- 1965 – “Bence-Jones proteins”: Photo by Alex McPherson, University of California, Irvine; National Institute of General Medical Sciences, NIGMS Image and Video Gallery.
- 1965 – “The first commercial scanning electron microscope”: NASA Jet Propulsion Laboratory Archives, California Institute of Technology, Pasadena, CA.
- 1966 – “The first AAI Course in Immunology”: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1966 – “James Gowans (AAI ’74) and Jonathan Uhr (AAI ’58)”: Courtesy of University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1966 – “Max Cooper (AAI ’66), Raymond Peterson (AAI ’64), Mary Ann South (AAI ’69), and Robert Good (AAI ’57)”: University of Alabama Medical College; National Library of Medicine, Images from the History of Medicine.
- 1966 – “Peyton Rous”: Courtesy of FASEB.
- 1966 – “The NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1966 – “All twenty amino acids”: Wikimedia Commons.
- 1966 – “IgE”: Icon created by Rings Leighton Design Group for AAI.
- 1967 – “First successful human heart transplant”: United Nations Photo.
- 1968 – “First successful human bone marrow transplant”: Bone marrow tap photo from the National Cancer Institute, NCI Visuals Online. Good portrait courtesy of the Lasker Foundation.
- 1968 – “Lymphocyte subsets (T and B cells)”: Cell art by AAI staff.
- 1968 – “First restriction endonuclease (EcoRI)”: Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases.
- 1969 – “Hugh McDevitt (AAI ’69) and Adam Chinitz”: University of Maryland, Baltimore County, The American Association of Immunologists Records.
- 1969 – “International Union of Immunological Societies”: Courtesy of the International Union of Immunological Societies.
- 1969 – “Helper T cells”: Cell art by AAI staff.
- 1969 – “Leonard Herzenberg (AAI ’68)”: Courtesy of Stanford University School of Medicine.
- 1970 – “Suppressor T cells”: Cell art by AAI staff.
- 1970 – “Marian Koshland (AAI ’50) and Mike Halpern (AAI ’73)”: Icon created by Rings Leighton Design Group for AAI.
- 1970 – “Ig variable region”: Wikimedia Commons.
- 1970 – “Reverse transcriptase”: David Goodsell, The Protein Data Bank, doi: 10.2210/rcsb_pdb/mom_2002_9.

- 1971 – “Otto Götze (AAI ’72) and Hans Müller-Eberhard (AAI ’62)”: Photo by James Gathany; CDC Public Health Image Library.
- 1971 – “Ag-specific recruitment of T cells”: AAI Archives.
- 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 – “MHC II expression”: Wikimedia Commons.
- 1973 – “Animal genes”: National Institute of General Medical Sciences; NIGMS Image and Video Gallery.
- 1974 – “MHC restriction”: Doherty and Zinkernagel portraits courtesy of the Lasker Foundation.
- 1974 – “Transposons”: Photo by Keith Weller; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 1975 – “The first monoclonal antibodies”: Celia Milstein/MRC Laboratory of Molecular Biology, Cambridge, UK.
- 1975 – “The NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1975 – “Edwin Southern”: Figure 1 from Duncan M. Kuhn, Pranab K. Mukherjee, Thomas A. Clark, Claude Pujol, Jyotsna Chandra, Rana A. Hajjeh, David W. Warnock, David R. Soll, and Mahmoud A. Ghannoum, “*Candida parapsilosis* Characterization in an Outbreak Setting,” *Emerging Infectious Diseases* 10, no. 6 (2004), doi: 10.3201/eid1006.030873; CDC Public Health Image Library.

U.S./World Images

- 1964 – KUED Channel 7, PBS affiliate, The University of Utah.
- 1965 – Library of Congress, Prints and Photographs Division, New York World-Telegram and the Sun Newspaper Photograph Collection.
- 1966 – Cast photo © Paramount Pictures/CBS Television.
- 1967 – Photo by Yoichi R. Okamoto; National Archives and Records Administration, Lyndon Baines Johnson Library, Austin, TX.
- 1968 – United Press International photo; Library of Congress, Prints and Photographs Division, New York World-Telegram and the Sun Newspaper Photograph Collection.
- 1969 – NASA John F. Kennedy Space Center.
- 1970 – Photo by Kent State University News Service; Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.
- 1971 – Photo by Linda Bartlett, National Cancer Institute; NCI Visuals Online.
- 1972 – Hewlett Packard, HP-35 scientific calculator.

1973 – Library of Congress, Prints and Photographs Division, Miscellaneous Items in High Demand.

1974 – Wikimedia Commons.

1975 – Registered trademark of Microsoft.

Panel 6 (1976–1988)

Science and Immunology Images

- 1976 – “Cross-priming”: AAI Archive.
- 1976 – “Immunoglobulin gene rearrangement”: Courtesy of FASEB.
- 1976 – “First known Ebola virus outbreak”: Photo by Frederick Murphy, Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 1976 – “The role of proto-oncogenes”: National Cancer Institute photo; NCI Visuals Online.
- 1976 – “The NIH”: Photo by U.S. Army Medical Research Institute for Infectious Diseases, Department of Defense; National Institute of Allergy and Infectious Diseases.
- 1977 – “T-cell growth factor (IL-2)”: Icon created by Rings Leighton Design Group for AAI.
- 1978 – “First restriction fragment length polymorphism (RFLP)”: National Center for Biotechnology Information.
- 1979 – “The World Health Organization”: Photo by Michael Schwartz; CDC Public Health Image Library.
- 1980 – “Baruj Benacerraf (AAI '57), Jean Dausset (AAI '75), and George Snell”: Courtesy of FASEB.
- 1980 – “Heavy chain of Ig”: Graphic created by Rings Leighton Design Group for AAI.
- 1981 – “Discovery of antimicrobial peptides”: Photo by Sarah Nystrom; National Park Service.
- 1981 – “Antigen processing”: CDC Public Health Image Library.
- 1981 – “CDC reports five cases”: X-ray by Jonathan W. M. Gold; both images from CDC Public Health Image Library.
- 1981 – “First transgenic mouse”: Image by Darryl Leja, National Human Genome Research Institute; NHGRI Digital Media Database.
- 1981 – “Prions”: Micrograph by Al Jenny, U.S. Department of Agriculture; CDC Public Health Image Library. Photo by Peggy Greb; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 1982 – “First biochemical description of $\alpha\beta$ -TCR”: Wikimedia Commons.
- 1982 – “IL-4”: Icon created by Rings Leighton Design Group for AAI.
- 1982 – “Leukotrienes”: Wikimedia Commons.
- 1983 – “L-selectin”: National Cancer Institute photo; NCI Visuals Online.
- 1983 – “Kary Mullis”: Photo by James Gathany and Hsi Liu; CDC Public Health Image Library.
- 1983 – “Human immunodeficiency virus (HIV)”: Photo by C. Goldsmith, P. Feorino, E. L. Palmer, and W. R. McManus; CDC Public Health Image Library.
- 1983 – “Cyclosporine A”: Icon created by Rings Leighton Design Group for AAI.
- 1984 – “B cells”: Cover photo from *The Journal of Immunology* 185, no. 3 (2010); photo by Rachel A. Henry and Peggy L. Kendall.
- 1984 – “IL-1”: Icon created by Rings Leighton Design Group for AAI.
- 1985 – “Double negative thymocytes”: Cell art by AAI Staff.
- 1985 – “MHC is described”: Wikimedia Commons.

- 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 Austen, and Michael F. Gurish.
- 1985 – “The NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1986 – “Th1/Th2 subsets”: Cell art by AAI Staff.
- 1986 – “Missing self theory”: Icon created by Rings Leighton Design Group for AAI.
- 1986 – “NF- κ B”: Cover photo from *The Journal of Immunology* 175, no. 12 (2005); photo by Adrian F. Arechiga, Bryan D. Bell, Jennifer C. Solomon, Isaac H. Chu, Claire L. Dubois, Brian E. Hall, Thaddeus C. George, David M. Coder, and Craig M. Walsh.
- 1986 – “ $\gamma\delta$ T cells”: Cell art by AAI Staff.
- 1987 – “Negative selection”: Figure 1178 from Henry Gray, *Anatomy of the Human Body*, 20th ed., thoroughly revised and re-edited by Warren H. Lewis, Philadelphia: Lea and Febiger, 1918.
- 1987 – “First chemokine”: Icon created by Rings Leighton Design Group for AAI.
- 1987 – “3D structure of human MHC class I”: Image from Figure 3 in Rui Wang, Kannan Natarajan, and David H. Margulies, “Structural Basis of the CD8 $\alpha\beta$ /MHC Class I Interaction: Focused Recognition Orients CD8 β to a T Cell Proximal Position,” *The Journal of Immunology* 183, no. 4 (2009): 2554–64.
- 1988 – “SCID-hu mouse model”: National Cancer Institute photo; NCI Visuals Online.

U.S./World Images

- 1976 – Registered trademark of Apple Inc.
- 1977 – Registered trademark of Lucasfilm Ltd.
- 1978 – Cover of the *Daily Mail*, 27 July 1978.
- 1981 – IBM magazine advertisement, 1982.
- 1983 – NASA Public Affairs Image Collection, Shuttle Mission Imagery.
- 1984 – Screenshot from 1984 television commercial for Apple Macintosh.
- 1985 – NASA.
- 1986 – Ukrainian Society for Friendship and Cultural Relations with Foreign Countries/United Nations Photo.
- 1987 – Photo by Adam Hart-Davis.
- 1988 – Courtesy of the NAMES Project Foundation.

Panel 7 (1989–2000)

Science and Immunology Images

- 1989 – “TGFβ”: Image by Michael Sporn, National Cancer Institute; NCI Visuals Online.
- 1989 – “Hygiene hypothesis”: Photo from “Allergy Relief for Your Child,” FDA Consumer Health Information Update, U.S. Food and Drug Administration, September 2011.
- 1990 – “Igα and Igβ”: Image from Figure 2 in Wasif N. Khan, “B Cell Receptor and BAFF Receptor Signaling Regulation of B Cell Homeostasis,” *The Journal of Immunology* 183, no. 6 (2009): 3561–67.
- 1990 – “IL-10”: Icon created by Rings Leighton Design Group for AAI.
- 1990 – “Role of IL-4”: Icon created by Rings Leighton Design Group for AAI.
- 1990 – “Deletion of β2-microglobulin”: Photo by Maggie Bartlett, National Human Genome Research Institute; NHGRI 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 Presentation by Rhesus Macaque MHC Class I: Crystal Structures of Mamu-A*01 Complexed with Two Immunogenic SIV Epitopes and Insights into CTL Escape,” *The Journal of Immunology* 178, no. 2 (2007): 944–52.
- 1991 – “Role of Th1/Th2”: Photo by Bruce Wetzel and Harry Schaefer, National Cancer Institute; NCI Visuals Online.
- 1991 – “Recombinant G-CSF (Filgrastim)”: Icon created by Rings Leighton Design Group for AAI.
- 1991 – “First definitive identification of a tumor antigen”: National Cancer Institute photo; NCI Visuals Online.
- 1992 – “Ly49 receptors”: Image from Figure 3 in Jacques Deguine, Béatrice Breart, Fabrice Lemaître, and Philippe Bousso, “Cutting Edge: Tumor-Targeting Antibodies Enhance NKG2D-Mediated NK Cell Cytotoxicity by Stabilizing NK Cell–Tumor Cell Interactions,” *The Journal of Immunology* 189, no. 12 (2012): 5493–97.
- 1992 – “Role of Fas”: Icon created by Rings Leighton Design Group for AAI.
- 1993 – “First report of spontaneous autoimmune disease”: Image from Figure 1 in Hongmei Li, Bardia Nourbakhsh, Farinaz Safavi, Ke Li, Hui Xu, Melissa Cullimore, Fang Zhou, Guangxian Zhang and Abdolmohamad Rostami, “Kit (W^{sh}) Mice Develop Earlier and More Severe Experimental Autoimmune Encephalomyelitis Due to Absence of Immune Suppression,” *The Journal of Immunology* 187, no. 1 (2011): 274–82.
- 1993 – “Role of IL-12”: Icon created by Rings Leighton Design Group for AAI.
- 1993 – “Receptor editing”: Cover photo from *The Journal of Immunology* 189, no. 12 (2012); photo by Eric B. Wong, Tahsin N. Khan, Chandra Mohan, and Ziaur S. M. Rahman.
- 1994 – “CTLA-4”: Icon created by Rings Leighton Design Group for AAI.
- 1995 – “CD4⁺CD25⁺ cells”: Courtesy of Kim J. Hasenkrug, Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases.

- 1995 – “First dendritic cell 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 Mamu-B*17: Insights into Immune Protection from Simian Immunodeficiency Virus,” *The Journal of Immunology* 187, 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., “Molecular Diagnosis of Burkitt's Lymphoma,” *New England Journal of Medicine* 354, no. 23 (2006): 2431-442; National Cancer Institute, NCI Visuals Online.
- 1997 – “Anti-CD20 mAb (Rituximab)”: Icon created by Rings Leighton Design Group for AAI.
- 1997 – “First AIDS “cocktail””: Image supplied by Rings Leighton Design Group.
- 1998 – “Anti-HER-2 mAb (Herceptin)”: Icon created by Rings Leighton Design Group for AAI.
- 1998 – “Five-year doubling of the NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 1999 – “Human plasmacytoid dendritic cells”: Image from Figure 6 in Florentia Pascale, Vanessa Contreras, Michel Bonneau, Alexandre Courbet, Stefan Chilmonczyk, Claudia Bevilacqua, Mathieu Eparaud, Violeta Niborski, Sabine Riffault, Anne-Marie Balazuc, Eliane Foulon, Laurence Guzylack-Piriou, Beatrice Riteau, Jayne Hope, Nicolas Bertho, Bernard Charley, and Isabelle Schwartz-Cornil, “Plasmacytoid Dendritic Cells Migrate in Afferent Skin Lymph,” *The Journal of Immunology* 180, no. 9 (2008): 5963–72.
- 1999 – “Immunological synapse”: Cover photo from *The Journal of Immunology* 187, no. 11 (2011); photo by Leslie K. Robertson and Hanne L. Ostergaard.
- 2000 – “The follicular T helper cell (T_{fh})”: Cell art by AAI staff.
- 2000 – “M1/M2 subtypes”: Figure 1 from Marie Benoit, Benoît Desnues and Jean-Louis Mege, “Macrophage Polarization in Bacterial Infections,” *The Journal of Immunology* 181, no. 6 (2008): 3733–39.

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- 1989 – National Archives, College Park, MD, Still Pictures, Record Group 330: Records of the Office of the Secretary of Defense, 1921–2008.
- 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 Archives, Digital Commons, 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 colorization by Stephen Ausmus; U.S. Department of Agriculture, Agricultural Research Service Image Gallery.
- 2002 – “First AAI Introductory Course”: AAI Archives.
- 2002 – “IL-10-producing immune modulatory B cells”: Cell art by AAI staff.
- 2002 – “AIRE”: Cover photo from *The Journal of Immunology* 190, no. 3 (2013); photo by Sheena Pinto, Katrin Schmidt, Stefanie Egle, Hans-Jürgen Stark, Petra Boukamp and Bruno Kyewski.
- 2002 – “Inflammasome”: Image from Figure 1 in Mohamed Lamkanfi and Vishva M. Dixit, “Modulation of Inflammasome Pathways by Bacterial and Viral Pathogens,” *The Journal of Immunology* 182, no. 2 (2011): 597–602.
- 2002 – “Single cell sequencing technology is developed”: National Human Genome Research Institute.
- 2002 – “Demonstration of relationship between T cell activation and glucose metabolism drives rapid expansion of immunometabolism field”: Cell art by AAI staff.
- 2006 – “NIH begins the Human Microbiome Project; the International Human Microbiome Consortium is launched in 2008”: Darryl Leja, National Human Genome Research Institute.
- 2003 – “First live attenuated influenza vaccine”: Photo by James Gathany/Bill Atkinson, Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 2003 – “Transcription factor FoxP3”: H. S. Bandukwala, Y. Wu, M. Feuerer, Y. Chen, B. Barboza, S. Ghosh, J. C. Stroud, C. Benoist, D. Mathis, A. Rao, and L. Chen, The Protein Data Bank, doi: <http://10.2210/pdb3qrf/pdb>.
- 2003 – “SARS outbreak”: National Library of Medicine, Images from the History of Medicine.
- 2003 – “Doubling of the NIH budget”: Icon created by Rings Leighton Design Group for AAI.
- 2004 – “Neutrophil extracellular traps (NETs)”: Cover photo from *The Journal of Immunology* 189, no. 1 (2012); photo by Charlotte Allen, Peter Thornton, Adam Denes, Barry W. McColl, Adam Pierozynski, Marc Monestier, Emmanuel Pinteaux, Nancy J. Rothwell, and Stuart M. Allan.
- 2004 – “Pathogenic role of eosinophils in asthma”: Image from Figure 5 in Nooshin S. Bahaie, M. Reza Hosseinkhani, Xiao Na Ge, Bit Na Kang, Sung Gil Ha, Malcolm S. Blumenthal, Rolf Jessberger, Savita P. Rao, and P. Sriramarao, “Regulation of Eosinophil Trafficking by SWAP-70 and Its Role in Allergic Airway Inflammation,” *The Journal of Immunology* 188, no. 3 (2011): 1479–90.
- 2005 – “Th17 cells”: Cell art by AAI staff.
- 2005 – “First complex disease GWAS”: National Human Genome Research Institute.

- 2006 – “First human papillomavirus vaccine”: Photo by Laboratory of Tumor Virus Biology, National Cancer Institute; NCI Visuals Online.
- 2006 – “PD-1”: Cell art by AAI staff.
- 2006 – “Identification of a relationship”: Photo by Debora Cartagena, Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 2007 – “The term ‘myeloid-derived suppressor cells’”: Photo Lance Liotta Laboratory, National Cancer Institute; NCI Visuals Online.
- 2007 – “The first complement-specific inhibitor (anti-C5)”: Icon created by Rings Leighton Design Group for AAI.
- 2008 – “Prevalence 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 Carr, Centers for Disease Control and Prevention; CDC Public Health Image 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 helper cells/Ih2 cells”: Centers for Disease Control and Prevention/Mae Melvin; CDC Public Health Image Library.
- 2010 – “Autologous cellular immunotherapy (Provence)”: Icon created by Rings Leighton Design Group for AAI.
- 2011 – “Bruce Beutler (AAI ’06) and Jules 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 melanoma”: PubChem Open Chemistry Database.
- 2011 – “Roles of different subsets of innate lymphocytes”: National Institute of Allergy and Infectious Diseases.
- 2011 – “BRAF enzyme inhibition”: Icon created by Rings Leighton Design Group for AAI.
- 2011 – “UN officially declares”: Wikimedia Commons.
- 2012 – “The existence of the Higgs boson”: CERN.
- 2012 – “Middle East Respiratory Syndrome (MERS) is first reported”: American Colony (Jerusalem), Photo Dept.
- 2012 – “CRISPR/Cas9 technology for targeted genome editing is first described”: National Institute of General Medical Sciences, National Institutes of Health.
- 2012 – “ α CTLA-4 mAb (Ipilimumab)”: Icon created by Rings Leighton Design Group for AAI.
- 2012 – “Baby born with HIV”: Photo by Amanda Mills, Centers for Disease Control and Prevention; CDC Public Health Image Library.
- 2013 – “First embryonic stem cell lines derived from humans are produced”: James Thomson, University of Wisconsin-Madison (source) Clay Glennon, University of Wisconsin-Madison (credit).

- 2013 – “Cancer Immunotherapy named Breakthrough of the Year by Science magazine”:
National Institutes of Health.
- 2013 – “Sequestration”: Icon created by Rings Leighton Design Group for AAI.
- 2014 – “AAI Careers in Immunology Fellowships program is launched”: AAI staff.
- 2015 – “The RTS,S malaria vaccine is approved for use in Europe; becomes first licensed anti-
parasite vaccine”: National Institute of Allergy and Infectious Diseases, National
Institutes of Health.
- 2015 – “Water is discovered on the surface of Mars”: NASA/JPL-Caltech/University of Arizona.
- 2015 – “Lymphatic vessels are discovered in the central nervous system”: Jonathan Kipnis,
Center for Brain Immunology and Glia.

U.S./World Images

- 2001 – U.S. Department of Defense photo; National Archives, College Park, MD, Still Pictures,
Record Group 330: Records of the Office of the Secretary of Defense, 1921–2008.
- 2002 – Wikimedia Commons.
- 2004 – Facebook.
- 2005 – YouTube.
- 2006 – Twitter.
- 2007 – Apple iPhone (1st Generation).
- 2008 – Cover of *The Times* [UK], 16 September 2008.
- 2009 – Photo by Pete Souza; Library of Congress, Prints and Photographs Division,
Miscellaneous Items in High Demand.
- 2010 – U.S. Coast Guard Photo; U.S. Coast Guard, Visual Information Gallery.
- 2011 – U.S. Navy photo by Mass Communication Specialist 3rd Class Alexander Tidd.
- 2012 – Photo by AAI Staff.
- 2013 – Image by Rings Leighton Design Group for AAI.
- 2014 – National Institute of Allergy and Infectious Diseases, National Institutes of Health.
- 2015 – Benson Kua.
- 2016 – AAI/JI staff.