

Nobel Prizes in Physiology & Medicine

© Dr. John Andraos, 2002 - 2007

Department of Chemistry, York University
4700 Keele Street, Toronto, ONTARIO M3J 1P3, CANADA

For suggestions, corrections, additional information, and comments please send e-mails to jandraos@yorku.ca

<http://www.chem.yorku.ca/NAMED/>

YEAR	NAMES OF SCIENTISTS	NATIONALITY	TYPE OF PHYSIOLOGY/MEDICINE
1901	Behring, Emil Adolf von	German	disease treatment (diphtheria)
1902	Ross, Sir Ronald	British (b. Almara, India)	disease treatment (malaria)
1903	Finsen, Niels Ryberg	Danish	disease treatment (lupus vulgaris)
1904	Pavlov, Ivan Petrovich	Russian	digestion
1905	Koch, Robert	German	disease treatment (TB)
1906	Golgi, Camillo	Italian	nervous system
1906	Cajal, Santiago Ramon y	Spanish	nervous system
1907	Laveran, Charles Louis Alphonse	French	disease treatment (protozoa)
1908	Mechnikov, Ilya Ilyich	Russian	immunity
1908	Ehrlich, Paul	German	immunity
1909	Kocher, Emil Theodor	Swiss	metabolism (thyroid gland)
1910	Kossel, Albrecht	German	proteins/nucleic acids
1911	Gullstrand, Allvar	Swedish	visual system
1912	Carrel, Alexis	French-American	blood vessels
1913	Richet, Charles Robert	French	anaphylaxis

1914	Barany, Robert	Austrian	vestibular apparatus
1915	no prize awarded	N/A	N/A
1916	no prize awarded	N/A	N/A
1917	no prize awarded	N/A	N/A
1918	no prize awarded	N/A	N/A
1919	Bordet, Jules	Belgian	immunity
1920	Krogh, Schack August Steenberger	Danish	blood vessels
1921	no prize awarded	N/A	N/A
1922	Hill, Sir Archibald Vivian Hill	British	metabolism (muscle)
1922	Meyerhof, Otto Fritz	German	metabolism (muscle)
1923	Banting, Sir Frederick Grant	Canadian	insulin
1923	Macleod, John James Richard	Scottish	insulin
1924	Einthoven, Willem	Dutch	techniques (electrocardiogram)
1925	no prize awarded	N/A	N/A
1926	Fibiger, Johannes Andreas Grib	Danish	Spiroptera carcinoma
1927	Wagner-Jauregg, Julius	Austrian	disease treatment (dementia paralytica)
1928	Nicolle, Charles Jules Henri	French	disease treatment (typhus)
1929	Eijkman, Christiaan	Dutch	vitamins
1929	Hopkins, Sir Frederick Gowland	British	vitamins
1930	Landsteiner, Karl	Austrian	human blood groups
1931	Warburg, Otto	German	respiratory enzyme
1932	Sherrington, Sir Charles Scott	British	neurons
1932	Adrian, Lord Edgar Douglas	British	neurons
1933	Morgan, Thomas Hunt	American	genetics (chromosomes)
1934	Whipple, George Hoyt	American	disease treatment (anaemia)
1934	Minot, George Richards	American	disease treatment (anaemia)
1934	Murphy, William Parry	American	disease treatment (anaemia)
1935	Spemann, Hans	German	embryonic development
1936	Dale, Sir Henry Hallet	British	nerve transmission
1936	Loewi, Otto	German	nerve transmission

1937	Szent-Gyorgi, Albert	Hungarian	vitamin C
1938	Heymans, Corneille Jean Francois	French-Belgian	respiration
1939	Domagk, Gerhard	German	antibiotics (prontosil)
1940	no prize awarded	N/A	N/A
1941	no prize awarded	N/A	N/A
1942	no prize awarded	N/A	N/A
1943	Dam, Henrik Carl Peter	Danish	vitamin K
1943	Doisy, Edward Adelbert	American	vitamin K
1944	Erlanger, Joseph	American	nerve fibres
1944	Gasser, Herbert Spencer	American	nerve fibres
1945	Fleming, Sir Alexander	Scottish	antibiotics (penicillin)
1945	Chain, Sir Ernst Boris	German-British	antibiotics (penicillin)
1945	Florey, Lord Howard Walter	Australian	antibiotics (penicillin)
1946	Mueller, Hermann Joseph	American	mutations by x-rays
1947	Cori, Carl Ferdinand	Czech	glycogen metabolism
1947	Cori, Gerty Theresa nee Radnitz	Czech	glycogen metabolism
1947	Houssay, Bernardo Alberto	Argentinian	hormones
1948	Mueller, Paul Hermann	Swiss	DDT as insecticide
1949	Hess, Walter Rudolf	Swiss	nervous system
1949	Moniz, Antonio C. de A.F.E.	Portuguese	leucotomy
1950	Kendall, Edward Calvin	American	hormones (adrenal cortex)
1950	Reichstein, Tadeus	Polish-Swiss	hormones (adrenal cortex)
1950	Hench, Philip Showalter	American	hormones (adrenal cortex)
1951	Theiler, Max	South African- American	disease treatment (yellow fever)
1952	Waksman, Selman Abraham	Ukrainian	antibiotics (streptomycin)
1953	Krebs, Sir Hans Adolf	German-British	metabolism (citric acid cycle)
1953	Lipmann, Fritz Albert	German-American	metabolism (coenzyme A)
1954	Enders, John Franklin	American	disease treatment (polio)
1954	Weller, Thomas Huckle	American	disease treatment (polio)

1954	Robbins, Frederick Chapman	American	disease treatment (polio)
1955	Theorell, Axel Hugo Theodor	Swedish	metabolism (oxidation enzymes)
1956	Cournand, Andre Frederic	French-American	circulatory system
1956	Forssmann, Werner	German	circulatory system
1956	Richards, Dickinson Woodruff	American	circulatory system
1957	Bovet, Daniel	Swiss-Italian	vascular and skeletal systems
1958	Lederberg, Joshua	American	genetics (bacteria)
1958	Beadle, George Wells	American	genetics
1958	Tatum, Edward Lawrie	American	genetics
1959	Ochoa, Severo	Spanish	genetics (DNA and RNA synthesis)
1959	Kornberg, Arthur	American	genetics (DNA and RNA synthesis)
1960	Burnet, Sir Frank Macfarlane	Australian	immunity
1960	Medawar, Sir Peter Brian	British (b. Rio de Janeiro, Brazil)	immunity
1961	Bekesy, Georg von	Hungarian-American	cochlea
1962	Crick, Francis Harry Compton	British	molecular biology (DNA structure)
1962	Watson, James Dewey	American	molecular biology (DNA structure)
1962	Wilkins, Maurice Hugh Frederick	New Zealander	molecular biology (DNA structure)
1963	Eccles, Sir John Carew	Australian	nerve membrane mechanisms
1963	Hodgkin, Sir Alan Lloyd	British	nerve membrane mechanisms
1963	Huxley, Sir Andrew Fielding	British	nerve membrane mechanisms
1964	Bloch, Konrad	German	metabolism (cholesterol)
1964	Lynen, Feodor	German	metabolism (cholesterol)
1965	Jacob, Francois	French	genetics (enzyme synthesis)
1965	Lwoff, Andre	French	genetics (enzyme synthesis)

1965	Monod, Jacques	French	genetics (enzyme synthesis)
1966	Rous, Francis Peyton	American	disease treatment (viruses)
1966	Huggins, Charles Brenton	Canadian-American	disease treatment (prostatic cancer)
1967	Granit, Ragnar	Finnish-Swedish	visual system
1967	Hartline, Haldan Keffer	American	visual system
1967	Wald, George	American	visual system
1968	Holley, Robert W.	American	genetics (protein synthesis)
1968	Khorana, Har Gobind	Indian	genetics (protein synthesis)
1968	Nirenberg, Marshall W.	American	genetics (protein synthesis)
1969	Delbrueck, Max	German-American	genetics (viruses)
1969	Hershey, Alfred Day	American	genetics (viruses)
1969	Luria, Salvador Edward	Italian-American	genetics (viruses)
1970	Katz, Sir Bernard	German-British	nervous system
1970	Euler, Ulf Svante von	Swedish	nervous system
1970	Axelrod, Julius	American	nervous system
1971	Sutherland, Earl Wilbure Jr.	American	molecular biology (hormones)
1972	Edelman, Gerald M.	American	molecular biology (antibodies)
1972	Porter, Rodney R.	British	molecular biology (antibodies)
1973	Frisch, Karl von	Austrian	social behaviour
1973	Lorenz, Konrad Zacharias	Austrian	social behaviour
1973	Tinbergen, Nikolaas	Dutch	social behaviour
1974	Claude, Albert	Belgian	metabolism (cells)
1974	de Duve, Christian	Belgian (b. Surrey, England)	metabolism (cells)
1974	Palade, George Emil	Romanian-American	metabolism (cells)
1975	Baltimore, David	American	genetics (viruses, tumors)
1975	Dulbecco, Renato	Italian-American	genetics (viruses, tumors)
1975	Temin, Howard Martin	American	genetics (viruses, tumors)
1976	Blumberg, Baruch S.	American	disease treatment (infectious)
1976	Gajdusek, Daniel Carleton	American	disease treatment (infectious)

1977	Guillemin, Roger Charles Louis	French-American	hormones (peptide)
1977	Schally, Andrew Victor	Polish-American	hormones (peptide)
1977	Yalow, Rosalyn	American	hormones (peptide)
1978	Arber, Werner	Swiss	genetics (restriction enzymes)
1978	Nathans, Daniel	American	genetics (restriction enzymes)
1978	Smith, Hamilton O.	American	genetics (restriction enzymes)
1979	Cormack, Alan M.	South African-American	techniques (tomography)
1979	Hounsfield, Sir Godfrey N.	British	techniques (tomography)
1980	Benacerraf, Baruj	Venezuelan-American	genetics (cell surface)
1980	Dausset, Jean	French	genetics (cell surface)
1980	Snell, George Davis	American	genetics (cell surface)
1981	Sperry, Roger Wolcott	American	nervous system (cerebral hemispheres)
1981	Hubel, David Hunter	Canadian-American	visual system
1981	Wiesel, Torsten N.	Swedish	visual system
1982	Bergstroem, Sune K.	Swedish	molecular biology (prostaglandins)
1982	Samuelsson, Bengt I.	Swedish	molecular biology (prostaglandins)
1982	Vane, Sir John R.	British	molecular biology (prostaglandins)
1983	McClintock, Barbara	American	genetics
1984	Jerne, Niels Kai	Danish (b. Londong, England)	immunity (monoclonal antibodies)
1984	Koehler, Georges J.F.	German	immunity (monoclonal antibodies)
1984	Milstein, Cesar	Argentinian-British	immunity (monoclonal antibodies)
1985	Brown, Michael Stuart	American	metabolism (cholesterol)
1985	Goldstein, Joseph L.	American	metabolism (cholesterol)

1986	Cohen, Seymour Stanley	American	metabolism (growth factors)
1986	Levi-Montalcini, Rita	Italian-American	metabolism (growth factors)
1987	Tonegawa, Susumu	Japanese	genetics (antibodies)
1988	Black, Sir James W.	British	drug treatment
1988	Elion, Gertrude B.	American	drug treatment
1988	Hitchings, George H.	American	drug treatment
1989	Bishop, J. Michael	American	genetics (retroviral oncogenes)
1989	Varmus, Harold E.	American	genetics (retroviral oncogenes)
1990	Murray, Joseph E.	American	disease treatment (organ transplant)
1990	Thomas, E. Donnall	American	disease treatment (organ transplant)
1991	Neher, Erwin	German	molecular biology (ion channels)
1991	Sakmann, Bert	German	molecular biology (ion channels)
1992	Fischer, Edmond H.	Austrian (b. Shanghai, China)	molecular biology (protein phosphorylation)
1992	Krebs, Edwin G.	American	molecular biology (protein phosphorylation)
1993	Roberts, Richard J.	British	genetics (split genes)
1993	Sharp, Phillip	American	genetics (split genes)
1994	Gilman, Alfred Goodman	American	proteins (signal transduction)
1994	Rodbell, Martin	American	proteins (signal transduction)
1995	Lewis, Edward B.	American	genetics (embryonic development)
1995	Nuesslein-Volhard, Christiane	German	genetics (embryonic development)
1995	Wieschaus, Eric F.	American	genetics (embryonic development)
1996	Doherty, Peter C.	Australian	immunity (defense)
1996	Zinkernagel, Rolf M.	Swiss	immunity (defense)
1997	Prusiner, Stanley B.	American	proteins (prions)

1998	Furchgott, Robert F.	American	metabolism (nitrous oxide)
1998	Ignarro, Louis J.	American	metabolism (nitrous oxide)
1998	Murad, Ferid	American	metabolism (nitrous oxide)
1999	Blobel, Guenter	German-American	protein transport
2000	Carlsson, Arvid	Swedish	genetics
2000	Kandel, Eric R.	Austrian	genetics
2000	Greengard, Paul	American	genetics
2001	Hartwell, Leland H.	American	genetics
2001	Hunt, R. Timothy	British	genetics
2001	Nurse, Sir Paul M.	British	genetics
2002	Brenner, Sydney	South African- British	genetics (cell death)
2002	Horvitz, Howard Robert	American	genetics (cell death)
2002	Sulston, John E.	British	genetics (cell death)
2003	Lauterbur, Peter C.	American	Magnetic resonance imaging
2003	Mansfield, Sir Peter	British	Magnetic resonance imaging
2004	Richard Axel	American	Olfactory system/molecular biology
2004	Linda Buck	American	Olfactory system/molecular biology
2005	Barry J. Marshall	Australian	Helicobacter pylori bacterium
2005	J. Robin Warren	Australian	Helicobacter pylori bacterium
2006	Andrew Z. Fire	American	RNA interference
2006	Craig C. Mello	American	RNA interference
2007	Mario R. Capecchi	Italian-American	Gene modifications in mice by the use of stem cells
2007	Sir Martin J. Evans	British	Gene modifications in mice by the use of stem cells
2007	Oliver Smithies	British	Gene modifications in mice by the use of stem cells

NUMBER OF PRIZES AWARDED BY TYPE OF MEDICINE	
AREA OF PHYSIOLOGY/MEDICINE	NUMBER OF PRIZES
antibiotics	5
circulatory system	5
disease treatment	26
genetics	44
hormones	7
immunity	10
metabolic processes	23
miscellaneous	9
molecular biology	14
nervous system	16
proteins	8
social behaviour	3
techniques	5
visual system	6
vitamins	5

