1901 [Emil Adolf von Behring](https://en.wikipedia.org/wiki/Emil_Adolf_von_Behring)https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Flag_of_Germany_%281867%E2%80%931918%29.svg/23px-Flag_of_Germany_%281867%E2%80%931918%29.svg.png [Germany](https://en.wikipedia.org/wiki/German_Empire" \o "German Empire)"for his work on [serum](https://en.wikipedia.org/wiki/Blood_plasma) therapy, especially its application against [diphtheria](https://en.wikipedia.org/wiki/Diphtheria), by which he has opened a new road in the domain of medical science and thereby placed in the hands of the physician a victorious weapon against illness and deaths"[[13]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1901-13)

1902 Sir [Ronald Ross](https://en.wikipedia.org/wiki/Ronald_Ross)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for his work on [malaria](https://en.wikipedia.org/wiki/Malaria), by which he has shown how it enters the organism and thereby has laid the foundation for successful research on this disease and methods of combating it"[[14]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1902-14)

1903 [Niels Ryberg Finsen](https://en.wikipedia.org/wiki/Niels_Ryberg_Finsen)https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Denmark.svg/20px-Flag_of_Denmark.svg.png [Denmark](https://en.wikipedia.org/wiki/Denmark) (https://upload.wikimedia.org/wikipedia/commons/thumb/3/3c/Flag_of_the_Faroe_Islands.svg/21px-Flag_of_the_Faroe_Islands.svg.png [Faroe Islands](https://en.wikipedia.org/wiki/Faroe_Islands))"[for] his contribution to the treatment of diseases, especially [lupus vulgaris](https://en.wikipedia.org/wiki/Lupus_vulgaris), with concentrated light radiation, whereby he has opened a new avenue for medical science"[[15]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1903-15)

**1904** [**Ivan Petrovich Pavlov**](https://en.wikipedia.org/wiki/Ivan_Pavlov)**https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russian_Empire" \o "Russian Empire)"in recognition of his work on the physiology of**[**digestion**](https://en.wikipedia.org/wiki/Digestive_system), through which knowledge on vital aspects of the subject has been transformed and enlarged"[[16]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1904-16)

**1905** [**Robert Koch**](https://en.wikipedia.org/wiki/Robert_Koch)**https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Flag_of_Germany_%281867%E2%80%931918%29.svg/23px-Flag_of_Germany_%281867%E2%80%931918%29.svg.png [Germany](https://en.wikipedia.org/wiki/German_Empire" \o "German Empire)"for his investigations and discoveries in relation to**[**tuberculosis**](https://en.wikipedia.org/wiki/Tuberculosis)"[[17]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1905-17)

1906 [Camillo Golgi](https://en.wikipedia.org/wiki/Camillo_Golgi)https://upload.wikimedia.org/wikipedia/commons/thumb/7/78/Flag_of_Italy_%281861%E2%80%931946%29.svg/23px-Flag_of_Italy_%281861%E2%80%931946%29.svg.png [Italy](https://en.wikipedia.org/wiki/Kingdom_of_Italy" \o "Kingdom of Italy)"in recognition of their work on the structure of the [nervous system](https://en.wikipedia.org/wiki/Nervous_system)"[[18]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1906-18)

1906 [Santiago Ramón y Cajal](https://en.wikipedia.org/wiki/Santiago_Ram%C3%B3n_y_Cajal)https://upload.wikimedia.org/wikipedia/commons/thumb/7/7d/Flag_of_Spain_%281785%E2%80%931873%2C_1875%E2%80%931931%29.svg/23px-Flag_of_Spain_%281785%E2%80%931873%2C_1875%E2%80%931931%29.svg.png [Spain](https://en.wikipedia.org/wiki/Restoration_(Spain)" \o "Restoration (Spain))"in recognition of their work on the structure of the [nervous system](https://en.wikipedia.org/wiki/Nervous_system)"[[18]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1906-18)

1907 [Charles Louis Alphonse Laveran](https://en.wikipedia.org/wiki/Charles_Louis_Alphonse_Laveran)https://upload.wikimedia.org/wikipedia/commons/thumb/3/3a/Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg/23px-Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg.png [France](https://en.wikipedia.org/wiki/France" \o "France)"in recognition of his work on the role played by [protozoa](https://en.wikipedia.org/wiki/Protozoa) in causing diseases"[[19]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1907-19)

1908 [Ilya Ilyich Mechnikov](https://en.wikipedia.org/wiki/%C3%89lie_Metchnikoff)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russian_Empire" \o "Russian Empire)"in recognition of their work on [immunity](https://en.wikipedia.org/wiki/Immune_system)"[[20]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1908-20)

1908 [Paul Ehrlich](https://en.wikipedia.org/wiki/Paul_Ehrlich)https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Flag_of_Germany_%281867%E2%80%931918%29.svg/23px-Flag_of_Germany_%281867%E2%80%931918%29.svg.png [Germany](https://en.wikipedia.org/wiki/German_Empire" \o "German Empire)"in recognition of their work on [immunity](https://en.wikipedia.org/wiki/Immune_system)"[[20]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1908-20)

1909 [Emil Theodor Kocher](https://en.wikipedia.org/wiki/Emil_Theodor_Kocher)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Switzerland.svg/16px-Flag_of_Switzerland.svg.png  [Switzerland](https://en.wikipedia.org/wiki/Switzerland" \o "Switzerland)"for his work on the physiology, pathology and surgery of the [thyroid gland](https://en.wikipedia.org/wiki/Thyroid_gland)"[[21]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1909-21)

1910 [Albrecht Kossel](https://en.wikipedia.org/wiki/Albrecht_Kossel)https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Flag_of_Germany_%281867%E2%80%931918%29.svg/23px-Flag_of_Germany_%281867%E2%80%931918%29.svg.png [Germany](https://en.wikipedia.org/wiki/German_Empire" \o "German Empire)"in recognition of the contributions to our knowledge of [cell chemistry](https://en.wikipedia.org/wiki/Cell_biology) made through his work on [proteins](https://en.wikipedia.org/wiki/Protein), including the [nucleic substances](https://en.wikipedia.org/wiki/Nucleic_acid)"[[22]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1910-22)

1911[Allvar Gullstrand](https://en.wikipedia.org/wiki/Allvar_Gullstrand)https://upload.wikimedia.org/wikipedia/en/thumb/4/4c/Flag_of_Sweden.svg/23px-Flag_of_Sweden.svg.png [Sweden](https://en.wikipedia.org/wiki/Sweden" \o "Sweden)"for his work on the [dioptrics](https://en.wikipedia.org/wiki/Dioptrics" \o "Dioptrics) of the [eye](https://en.wikipedia.org/wiki/Human_eye)"[[23]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1911-23)

1912 [Alexis Carrel](https://en.wikipedia.org/wiki/Alexis_Carrel)https://upload.wikimedia.org/wikipedia/commons/thumb/3/3a/Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg/23px-Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg.png [France](https://en.wikipedia.org/wiki/France)"[for] his work on vascular [suture](https://en.wikipedia.org/wiki/Surgical_suture) and the [transplantation](https://en.wikipedia.org/wiki/Organ_transplantation) of [blood vessels](https://en.wikipedia.org/wiki/Blood_vessel) and [organs](https://en.wikipedia.org/wiki/Organ_(anatomy))"[[24]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1912-24)

1913 [Charles Richet](https://en.wikipedia.org/wiki/Charles_Richet)https://upload.wikimedia.org/wikipedia/commons/thumb/3/3a/Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg/23px-Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg.png [France](https://en.wikipedia.org/wiki/France)"[for] his work on [anaphylaxis](https://en.wikipedia.org/wiki/Anaphylaxis)"[[25]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1913-25)

1914 [Robert Bárány](https://en.wikipedia.org/wiki/Robert_B%C3%A1r%C3%A1ny)https://upload.wikimedia.org/wikipedia/commons/thumb/2/29/Flag_of_Austria-Hungary_%281869-1918%29.svg/23px-Flag_of_Austria-Hungary_%281869-1918%29.svg.png [Austria-Hungary](https://en.wikipedia.org/wiki/Austria-Hungary)"for his work on the physiology and pathology of the [vestibular apparatus](https://en.wikipedia.org/wiki/Vestibular_apparatus)"[[8]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1914-8)

1915 *Not awarded*

1916 *Not awarded*

1917 *Not awarded*

1918 *Not awarded*

1919 [Jules Bordet](https://en.wikipedia.org/wiki/Jules_Bordet)https://upload.wikimedia.org/wikipedia/commons/thumb/9/92/Flag_of_Belgium_%28civil%29.svg/23px-Flag_of_Belgium_%28civil%29.svg.png [Belgium](https://en.wikipedia.org/wiki/Belgium" \o "Belgium)"for his discoveries relating to [immunity](https://en.wikipedia.org/wiki/Immune_system)"[[26]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1919-26)

1920 [Schack August Steenberg Krogh](https://en.wikipedia.org/wiki/August_Krogh)https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Denmark.svg/20px-Flag_of_Denmark.svg.png [Denmark](https://en.wikipedia.org/wiki/Denmark" \o "Denmark)"for his discovery of the capillary motor regulating mechanism"[[27]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1920-27)

1921*Not awarded*

192 2 [Archibald Vivian Hill](https://en.wikipedia.org/wiki/Archibald_Hill)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for his discovery relating to the production of heat in the [muscle](https://en.wikipedia.org/wiki/Muscle)"[[9]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1922-9)

1922 [Otto Fritz Meyerhof](https://en.wikipedia.org/wiki/Otto_Fritz_Meyerhof)https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [Germany](https://en.wikipedia.org/wiki/Germany" \o "Germany)"for his discovery of the fixed relationship between the consumption of [oxygen](https://en.wikipedia.org/wiki/Oxygen) and the [metabolism](https://en.wikipedia.org/wiki/Metabolism) of [lactic acid](https://en.wikipedia.org/wiki/Lactic_acid) in the muscle"[[9]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1922-9)

**1923 Sir**[**Frederick Grant Banting**](https://en.wikipedia.org/wiki/Frederick_Banting)**https://upload.wikimedia.org/wikipedia/commons/thumb/6/6d/Flag_of_Canada_%281921%E2%80%931957%29.svg/23px-Flag_of_Canada_%281921%E2%80%931957%29.svg.png [Canada](https://en.wikipedia.org/wiki/Canada" \o "Canada)"for the discovery of**[**insulin**](https://en.wikipedia.org/wiki/Insulin)**"**[**[28]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1923-28)

**1923** [**John James Rickard Macleod**](https://en.wikipedia.org/wiki/John_James_Rickard_Macleod)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for the discovery of**[**insulin**](https://en.wikipedia.org/wiki/Insulin)**"**[**[28]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1923-28)

1924[Willem Einthoven](https://en.wikipedia.org/wiki/Willem_Einthoven)https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Flag_of_the_Netherlands.svg/23px-Flag_of_the_Netherlands.svg.png [Netherlands](https://en.wikipedia.org/wiki/Netherlands" \o "Netherlands)"for the discovery of the mechanism of the [electrocardiogram](https://en.wikipedia.org/wiki/Electrocardiogram)"[[29]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1924-29)

1925 *Not awarded*

1926 [Johannes Andreas Grib Fibiger](https://en.wikipedia.org/wiki/Johannes_Andreas_Grib_Fibiger)https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Denmark.svg/20px-Flag_of_Denmark.svg.png [Denmark](https://en.wikipedia.org/wiki/Denmark" \o "Denmark)"for his discovery of the [Spiroptera carcinoma](https://en.wikipedia.org/wiki/Spiroptera_carcinoma" \o "Spiroptera carcinoma)"[[10]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1926-10)

1927[Julius Wagner-Jauregg](https://en.wikipedia.org/wiki/Julius_Wagner-Jauregg)https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Flag_of_Austria.svg/23px-Flag_of_Austria.svg.png [Austria](https://en.wikipedia.org/wiki/Austria" \o "Austria)"for his discovery of the therapeutic value of [malaria](https://en.wikipedia.org/wiki/Malaria) [inoculation](https://en.wikipedia.org/wiki/Inoculation) in the treatment of [dementia paralytica](https://en.wikipedia.org/wiki/General_paresis_of_the_insane)"[[30]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1927-30)

1928 [Charles Jules Henri Nicolle](https://en.wikipedia.org/wiki/Charles_Nicolle)https://upload.wikimedia.org/wikipedia/commons/thumb/3/3a/Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg/23px-Flag_of_France_%281794%E2%80%931815%2C_1830%E2%80%931958%29.svg.png [France](https://en.wikipedia.org/wiki/France" \o "France)"for his work on [typhus](https://en.wikipedia.org/wiki/Typhus)"[[31]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1928-31)

1929 [Christiaan Eijkman](https://en.wikipedia.org/wiki/Christiaan_Eijkman)https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Flag_of_the_Netherlands.svg/23px-Flag_of_the_Netherlands.svg.png [Netherlands](https://en.wikipedia.org/wiki/Netherlands" \o "Netherlands)"for his discovery of the antineuritic [vitamin](https://en.wikipedia.org/wiki/Vitamin)"[[32]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1929-32)

1929 Sir [Frederick Gowland Hopkins](https://en.wikipedia.org/wiki/Frederick_Gowland_Hopkins)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for his discovery of the growth-stimulating [vitamins](https://en.wikipedia.org/wiki/Vitamin)"[[32]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1929-32)

**1930** [**Karl Landsteiner**](https://en.wikipedia.org/wiki/Karl_Landsteiner)**https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Flag_of_Austria.svg/23px-Flag_of_Austria.svg.png [Austria](https://en.wikipedia.org/wiki/Austria" \o "Austria)"for his discovery of human**[**blood groups**](https://en.wikipedia.org/wiki/ABO_blood_group_system)"[[33]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1930-33)

1931[Otto Heinrich Warburg](https://en.wikipedia.org/wiki/Otto_Heinrich_Warburg)https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [Germany](https://en.wikipedia.org/wiki/Germany" \o "Germany)"for his discovery of the nature and mode of action of the [respiratory enzyme](https://en.wikipedia.org/wiki/Cytochrome)"[[34]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1931-34)

1932 Sir [Charles Scott Sherrington](https://en.wikipedia.org/wiki/Charles_Scott_Sherrington)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries regarding the functions of [neurons](https://en.wikipedia.org/wiki/Neuron)"[[35]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1932-35)

1932 [Edgar Douglas Adrian](https://en.wikipedia.org/wiki/Edgar_Adrian,_1st_Baron_Adrian)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries regarding the functions of [neurons](https://en.wikipedia.org/wiki/Neuron)"[[35]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1932-35)

**1933** [**Thomas Hunt Morgan**](https://en.wikipedia.org/wiki/Thomas_Hunt_Morgan)**https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for his discoveries concerning the role played by the**[**chromosome**](https://en.wikipedia.org/wiki/Chromosome)**in**[**heredity**](https://en.wikipedia.org/wiki/Heredity)"[[36]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1933-36)

1934 [George Hoyt Whipple](https://en.wikipedia.org/wiki/George_Whipple)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [liver](https://en.wikipedia.org/wiki/Liver) therapy in cases of [anaemia](https://en.wikipedia.org/wiki/Anaemia" \o "Anaemia)"[[37]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1934-37)

1934 [George Richards Minot](https://en.wikipedia.org/wiki/George_Minot)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [liver](https://en.wikipedia.org/wiki/Liver) therapy in cases of [anaemia](https://en.wikipedia.org/wiki/Anaemia" \o "Anaemia)"[[37]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1934-37)

1934 [William Parry Murphy](https://en.wikipedia.org/wiki/William_P._Murphy)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [liver](https://en.wikipedia.org/wiki/Liver) therapy in cases of [anaemia](https://en.wikipedia.org/wiki/Anaemia" \o "Anaemia)"[[37]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1934-37)

1935 [Hans Spemann](https://en.wikipedia.org/wiki/Hans_Spemann" \o "Hans Spemann)https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Germany_%281935%E2%80%931945%29.svg/23px-Flag_of_Germany_%281935%E2%80%931945%29.svg.png [Germany](https://en.wikipedia.org/wiki/Nazi_Germany" \o "Nazi Germany)"for his discovery of the organizer effect in [embryonic development](https://en.wikipedia.org/wiki/Embryonic_development)"[[38]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1935-38)

1936 Sir [Henry Hallett Dale](https://en.wikipedia.org/wiki/Henry_Hallett_Dale)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries relating to [chemical transmission of nerve impulses](https://en.wikipedia.org/wiki/Neurotransmitter)"[[39]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1936-39)

1936 [Otto Loewi](https://en.wikipedia.org/wiki/Otto_Loewi)https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Flag_of_Austria.svg/23px-Flag_of_Austria.svg.png [Austria](https://en.wikipedia.org/wiki/Austria) https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Germany_%281935%E2%80%931945%29.svg/23px-Flag_of_Germany_%281935%E2%80%931945%29.svg.png [Germany](https://en.wikipedia.org/wiki/Nazi_Germany" \o "Nazi Germany)"for their discoveries relating to [chemical transmission of nerve impulses](https://en.wikipedia.org/wiki/Neurotransmitter)"[[39]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1936-39)

1937 [Albert Szent-Györgyi von Nagyrapolt](https://en.wikipedia.org/wiki/Albert_Szent-Gy%C3%B6rgyi)https://upload.wikimedia.org/wikipedia/commons/thumb/b/b1/Flag_of_Hungary_%281918-1919%29.svg/23px-Flag_of_Hungary_%281918-1919%29.svg.png [Hungary](https://en.wikipedia.org/wiki/Hungary" \o "Hungary)"for his discoveries in connection with the [biological combustion processes](https://en.wikipedia.org/wiki/Cellular_respiration), with special reference to [vitamin C](https://en.wikipedia.org/wiki/Vitamin_C) and the catalysis of [fumaric acid](https://en.wikipedia.org/wiki/Fumaric_acid" \o "Fumaric acid)"[[40]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1937-40)

1938 [Corneille Jean François Heymans](https://en.wikipedia.org/wiki/Corneille_Heymans)https://upload.wikimedia.org/wikipedia/commons/thumb/9/92/Flag_of_Belgium_%28civil%29.svg/23px-Flag_of_Belgium_%28civil%29.svg.png [Belgium](https://en.wikipedia.org/wiki/Belgium" \o "Belgium)"for the discovery of the role played by the [sinus](https://en.wikipedia.org/wiki/Paranasal_sinuses) and [aortic mechanisms](https://en.wikipedia.org/wiki/Aorta) in the regulation of [respiration](https://en.wikipedia.org/wiki/Respiration_(physiology))"[[11]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1938-11)

1939 [Gerhard Domagk](https://en.wikipedia.org/wiki/Gerhard_Domagk)https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Germany_%281935%E2%80%931945%29.svg/23px-Flag_of_Germany_%281935%E2%80%931945%29.svg.png [Germany](https://en.wikipedia.org/wiki/Nazi_Germany" \o "Nazi Germany)"for the discovery of the [antibacterial](https://en.wikipedia.org/wiki/Antibacterial) effects of [prontosil](https://en.wikipedia.org/wiki/Prontosil" \o "Prontosil)"[[41]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1939-41)

19 40 *Not awarded*

1941 *Not awarded*

194 2*Not awarded*

1943 [Carl Peter Henrik Dam](https://en.wikipedia.org/wiki/Henrik_Dam)https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Denmark.svg/20px-Flag_of_Denmark.svg.png [Denmark](https://en.wikipedia.org/wiki/Denmark" \o "Denmark)"for his discovery of [vitamin K](https://en.wikipedia.org/wiki/Vitamin_K)"[[12]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1943-12)

1943 [Edward Adelbert Doisy](https://en.wikipedia.org/wiki/Edward_Adelbert_Doisy)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for his discovery of the chemical nature of [vitamin K](https://en.wikipedia.org/wiki/Vitamin_K)"[[12]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1943-12)

1944 [Joseph Erlanger](https://en.wikipedia.org/wiki/Joseph_Erlanger)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries relating to the highly differentiated functions of single [nerve fibres](https://en.wikipedia.org/wiki/Nerve_fibre)"[[42]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1944-42)

1944 [Herbert Spencer Gasser](https://en.wikipedia.org/wiki/Herbert_Spencer_Gasser)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries relating to the highly differentiated functions of single [nerve fibres](https://en.wikipedia.org/wiki/Nerve_fibre)"[[42]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1944-42)

**1945 Sir**[**Alexander Fleming**](https://en.wikipedia.org/wiki/Alexander_Fleming)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for the discovery of**[**penicillin**](https://en.wikipedia.org/wiki/Penicillin)**and its curative effect in various**[**infectious diseases**](https://en.wikipedia.org/wiki/Infectious_disease)"[[43]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1945-43)

**1945 Sir**[**Ernst Boris Chain**](https://en.wikipedia.org/wiki/Ernst_Boris_Chain)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for the discovery of**[**penicillin**](https://en.wikipedia.org/wiki/Penicillin)**and its curative effect in various**[**infectious diseases**](https://en.wikipedia.org/wiki/Infectious_disease)"[[43]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1945-43)

1945 [Howard Walter Florey](https://en.wikipedia.org/wiki/Howard_Florey)https://upload.wikimedia.org/wikipedia/commons/thumb/8/88/Flag_of_Australia_%28converted%29.svg/23px-Flag_of_Australia_%28converted%29.svg.png [Australia](https://en.wikipedia.org/wiki/Australia" \o "Australia)"for the discovery of [penicillin](https://en.wikipedia.org/wiki/Penicillin) and its curative effect in various [infectious diseases](https://en.wikipedia.org/wiki/Infectious_disease)"[[43]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1945-43)

1946 [Hermann Joseph Muller](https://en.wikipedia.org/wiki/Hermann_Joseph_Muller)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for the discovery of the production of [mutations](https://en.wikipedia.org/wiki/Mutation) by means of [X-ray](https://en.wikipedia.org/wiki/X-ray) [irradiation](https://en.wikipedia.org/wiki/Irradiation)"[[44]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1946-44)

1947 [Carl Ferdinand Cori](https://en.wikipedia.org/wiki/Carl_Ferdinand_Cori)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the course of the catalytic conversion of [glycogen](https://en.wikipedia.org/wiki/Glycogen)"[[45]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1947-45)

1947 [Gerty Theresa Cori, née Radnitz](https://en.wikipedia.org/wiki/Gerty_Cori)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the course of the catalytic conversion of [glycogen](https://en.wikipedia.org/wiki/Glycogen)"[[45]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1947-45)

1947 [Bernardo Alberto Houssay](https://en.wikipedia.org/wiki/Bernardo_Houssay)https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/Flag_of_Argentina.svg/23px-Flag_of_Argentina.svg.png [Argentina](https://en.wikipedia.org/wiki/Argentina" \o "Argentina)"for his discovery of the part played by the [hormone](https://en.wikipedia.org/wiki/Hormone) of the [anterior pituitary](https://en.wikipedia.org/wiki/Anterior_pituitary) lobe in the metabolism of [sugar](https://en.wikipedia.org/wiki/Glucose)"[[45]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1947-45)

1948 [Paul Hermann Müller](https://en.wikipedia.org/wiki/Paul_Hermann_M%C3%BCller)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Switzerland.svg/16px-Flag_of_Switzerland.svg.png  [Switzerland](https://en.wikipedia.org/wiki/Switzerland" \o "Switzerland)"for his discovery of the high efficiency of [DDT](https://en.wikipedia.org/wiki/DDT) as a contact [poison against several arthropods](https://en.wikipedia.org/wiki/Insecticide)"[[46]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1948-46)

1949 [Walter Rudolf Hess](https://en.wikipedia.org/wiki/Walter_Rudolf_Hess)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Switzerland.svg/16px-Flag_of_Switzerland.svg.png  [Switzerland](https://en.wikipedia.org/wiki/Switzerland" \o "Switzerland)"for his discovery of the functional organization of the [interbrain](https://en.wikipedia.org/wiki/Midbrain) as a coordinator of the activities of the internal organs"[[47]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1949-47)

1949 [António Caetano Egas Moniz](https://en.wikipedia.org/wiki/Ant%C3%B3nio_Egas_Moniz)https://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/23px-Flag_of_Portugal.svg.png [Portugal](https://en.wikipedia.org/wiki/Portugal" \o "Portugal)"for his discovery of the therapeutic value of leucotomy ([lobotomy](https://en.wikipedia.org/wiki/Lobotomy)) in certain psychoses"[[47]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1949-47)

1950 [Philip Showalter Hench](https://en.wikipedia.org/wiki/Philip_Showalter_Hench)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries relating to the [hormones](https://en.wikipedia.org/wiki/Hormone) of the [adrenal cortex](https://en.wikipedia.org/wiki/Adrenal_cortex), their structure and biological effects"[[48]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1950-48)

1950 [Edward Calvin Kendall](https://en.wikipedia.org/wiki/Edward_Calvin_Kendall)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries relating to the [hormones](https://en.wikipedia.org/wiki/Hormone) of the [adrenal cortex](https://en.wikipedia.org/wiki/Adrenal_cortex), their structure and biological effects"[[48]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1950-48)

1950 [Tadeusz Reichstein](https://en.wikipedia.org/wiki/Tadeus_Reichstein)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Switzerland.svg/16px-Flag_of_Switzerland.svg.png  [Switzerland](https://en.wikipedia.org/wiki/Switzerland) https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Flag_of_Poland_%281928%E2%80%931980%29.svg/23px-Flag_of_Poland_%281928%E2%80%931980%29.svg.png [Poland](https://en.wikipedia.org/wiki/Poland" \o "Poland)"for their discoveries relating to the [hormones](https://en.wikipedia.org/wiki/Hormone) of the [adrenal cortex](https://en.wikipedia.org/wiki/Adrenal_cortex), their structure and biological effects"[[48]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1950-48)

1951[Max Theiler](https://en.wikipedia.org/wiki/Max_Theiler)https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_South_Africa_%281928%E2%80%931994%29.svg/23px-Flag_of_South_Africa_%281928%E2%80%931994%29.svg.png [South Africa](https://en.wikipedia.org/wiki/South_Africa) https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) "for his discoveries concerning [yellow fever](https://en.wikipedia.org/wiki/Yellow_fever) and how to combat it"[[49]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1951-49)

1952 [Selman Abraham Waksman](https://en.wikipedia.org/wiki/Selman_Waksman)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for his discovery of [streptomycin](https://en.wikipedia.org/wiki/Streptomycin), the first [antibiotic](https://en.wikipedia.org/wiki/Antibiotic) effective against [tuberculosis](https://en.wikipedia.org/wiki/Tuberculosis)"[[50]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1952-50)

**1953 Sir**[**Hans Adolf Krebs**](https://en.wikipedia.org/wiki/Hans_Adolf_Krebs)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for his discovery of the**[**citric acid cycle**](https://en.wikipedia.org/wiki/Citric_acid_cycle)"[[51]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1953-51)

1953 [Fritz Albert Lipmann](https://en.wikipedia.org/wiki/Fritz_Albert_Lipmann)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States) https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [Germany](https://en.wikipedia.org/wiki/Germany" \o "Germany)"for his discovery of [co-enzyme A](https://en.wikipedia.org/wiki/Coenzyme_A) and its importance for intermediary metabolism"[[51]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1953-51)

1954 [John Franklin Enders](https://en.wikipedia.org/wiki/John_Franklin_Enders)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the ability of [poliomyelitis](https://en.wikipedia.org/wiki/Poliomyelitis) [viruses](https://en.wikipedia.org/wiki/Virus) to grow in cultures of various types of tissue"[[52]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1954-52)

1954 [Frederick Chapman Robbins](https://en.wikipedia.org/wiki/Frederick_Chapman_Robbins)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the ability of [poliomyelitis](https://en.wikipedia.org/wiki/Poliomyelitis) [viruses](https://en.wikipedia.org/wiki/Virus) to grow in cultures of various types of tissue"[[52]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1954-52)

1954 [Thomas Huckle Weller](https://en.wikipedia.org/wiki/Thomas_Huckle_Weller)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the ability of [poliomyelitis](https://en.wikipedia.org/wiki/Poliomyelitis) [viruses](https://en.wikipedia.org/wiki/Virus) to grow in cultures of various types of tissue"[[52]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1954-52)

1955 [Axel Hugo Theodor Theorell](https://en.wikipedia.org/wiki/Hugo_Theorell)https://upload.wikimedia.org/wikipedia/en/thumb/4/4c/Flag_of_Sweden.svg/23px-Flag_of_Sweden.svg.png [Sweden](https://en.wikipedia.org/wiki/Sweden" \o "Sweden)"for his discoveries concerning the nature and mode of action of oxidation enzymes"[[53]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1955-53)

1956 [André Frédéric Cournand](https://en.wikipedia.org/wiki/Andr%C3%A9_Fr%C3%A9d%C3%A9ric_Cournand)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [heart catheterization](https://en.wikipedia.org/wiki/Heart_catheterization) and pathological changes in the [circulatory system](https://en.wikipedia.org/wiki/Circulatory_system)"[[54]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1956-54)

1956 [Werner Forssmann](https://en.wikipedia.org/wiki/Werner_Forssmann)https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [West Germany](https://en.wikipedia.org/wiki/West_Germany)"for their discoveries concerning [heart catheterization](https://en.wikipedia.org/wiki/Heart_catheterization) and pathological changes in the [circulatory system](https://en.wikipedia.org/wiki/Circulatory_system)"[[54]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1956-54)

1956 [Dickinson W. Richards](https://en.wikipedia.org/wiki/Dickinson_W._Richards)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [heart catheterization](https://en.wikipedia.org/wiki/Heart_catheterization) and pathological changes in the [circulatory system](https://en.wikipedia.org/wiki/Circulatory_system)"[[54]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1956-54)

1957 [Daniel Bovet](https://en.wikipedia.org/wiki/Daniel_Bovet)https://upload.wikimedia.org/wikipedia/en/thumb/0/03/Flag_of_Italy.svg/23px-Flag_of_Italy.svg.png [Italy](https://en.wikipedia.org/wiki/Italy" \o "Italy)"for his discoveries relating to [synthetic compounds that inhibit the action of certain body substances](https://en.wikipedia.org/wiki/Antihistamine), and especially their action on the vascular system and the skeletal muscles"[[55]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1957-55)

1958 [George Wells Beadle](https://en.wikipedia.org/wiki/George_Wells_Beadle)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery that [genes](https://en.wikipedia.org/wiki/Gene) act by regulating definite chemical events"[[56]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1958-56)

1958 [Edward Lawrie Tatum](https://en.wikipedia.org/wiki/Edward_Lawrie_Tatum)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery that [genes](https://en.wikipedia.org/wiki/Gene) act by regulating definite chemical events"[[56]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1958-56)

1958 [Joshua Lederberg](https://en.wikipedia.org/wiki/Joshua_Lederberg)https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Flag_of_the_United_States_%281912-1959%29.svg/23px-Flag_of_the_United_States_%281912-1959%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for his discoveries concerning [genetic recombination](https://en.wikipedia.org/wiki/Genetic_recombination) and the organization of the [genetic material](https://en.wikipedia.org/wiki/Gene) of [bacteria](https://en.wikipedia.org/wiki/Bacteria)"[[56]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1958-56)

1959 [Arthur Kornberg](https://en.wikipedia.org/wiki/Arthur_Kornberg)https://upload.wikimedia.org/wikipedia/commons/thumb/2/2d/Flag_of_the_United_States_%281959-1960%29.svg/23px-Flag_of_the_United_States_%281959-1960%29.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of the mechanisms in the biological synthesis of [ribonucleic acid](https://en.wikipedia.org/wiki/Ribonucleic_acid) and [deoxyribonucleic acid](https://en.wikipedia.org/wiki/Deoxyribonucleic_acid)"[[57]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1959-57)

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1960 Sir [Frank Macfarlane Burnet](https://en.wikipedia.org/wiki/Frank_Macfarlane_Burnet)https://upload.wikimedia.org/wikipedia/commons/thumb/8/88/Flag_of_Australia_%28converted%29.svg/23px-Flag_of_Australia_%28converted%29.svg.png [Australia](https://en.wikipedia.org/wiki/Australia" \o "Australia)"for discovery of acquired [immunological tolerance](https://en.wikipedia.org/wiki/Immune_tolerance)"[[58]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1960-58)

1960 Sir [Peter Brian Medawar](https://en.wikipedia.org/wiki/Peter_Medawar)https://upload.wikimedia.org/wikipedia/commons/thumb/4/49/Flag_of_Brazil_%281960%E2%80%931968%29.svg/22px-Flag_of_Brazil_%281960%E2%80%931968%29.svg.png [Brazil](https://en.wikipedia.org/wiki/Brazil) https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for discovery of acquired [immunological tolerance](https://en.wikipedia.org/wiki/Immune_tolerance)"[[58]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1960-58)

1961[Georg von Békésy](https://en.wikipedia.org/wiki/Georg_von_B%C3%A9k%C3%A9sy)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) https://upload.wikimedia.org/wikipedia/commons/thumb/c/c1/Flag_of_Hungary.svg/23px-Flag_of_Hungary.svg.png [Hungary](https://en.wikipedia.org/wiki/Hungary" \o "Hungary)"for his discoveries of the physical mechanism of stimulation within the [cochlea](https://en.wikipedia.org/wiki/Cochlea)"[[59]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1961-59)

**1962** [**Francis Harry Compton Crick**](https://en.wikipedia.org/wiki/Francis_Crick)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for their discoveries concerning the molecular structure of**[**nucleic acids**](https://en.wikipedia.org/wiki/Nucleic_acid)**and its significance for information transfer in living material"**[**[60]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1962-60)

**1962** [**James Dewey Watson**](https://en.wikipedia.org/wiki/James_D._Watson)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for their discoveries concerning the molecular structure of**[**nucleic acids**](https://en.wikipedia.org/wiki/Nucleic_acid)**and its significance for information transfer in living material"**[**[60]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1962-60)

1962 [Maurice Hugh Frederick Wilkins](https://en.wikipedia.org/wiki/Maurice_Wilkins)https://upload.wikimedia.org/wikipedia/commons/thumb/3/3e/Flag_of_New_Zealand.svg/23px-Flag_of_New_Zealand.svg.png [New Zealand](https://en.wikipedia.org/wiki/New_Zealand) https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning the molecular structure of [nucleic acids](https://en.wikipedia.org/wiki/Nucleic_acid) and its significance for information transfer in living material"[[60]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1962-60)

1963 Sir [John Carew Eccles](https://en.wikipedia.org/wiki/John_Eccles_(neurophysiologist))https://upload.wikimedia.org/wikipedia/commons/thumb/8/88/Flag_of_Australia_%28converted%29.svg/23px-Flag_of_Australia_%28converted%29.svg.png [Australia](https://en.wikipedia.org/wiki/Australia" \o "Australia)"for their discoveries concerning the ionic mechanisms involved in excitation and inhibition in the peripheral and central portions of the [nerve](https://en.wikipedia.org/wiki/Nerve) [cell membrane](https://en.wikipedia.org/wiki/Cell_membrane)"[[61]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1963-61)

1963 Sir [Alan Lloyd Hodgkin](https://en.wikipedia.org/wiki/Alan_Lloyd_Hodgkin)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning the ionic mechanisms involved in excitation and inhibition in the peripheral and central portions of the [nerve](https://en.wikipedia.org/wiki/Nerve) [cell membrane](https://en.wikipedia.org/wiki/Cell_membrane)"[[61]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1963-61)

1963 Sir [Andrew Fielding Huxley](https://en.wikipedia.org/wiki/Andrew_Huxley)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning the ionic mechanisms involved in excitation and inhibition in the peripheral and central portions of the [nerve](https://en.wikipedia.org/wiki/Nerve) [cell membrane](https://en.wikipedia.org/wiki/Cell_membrane)"[[61]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1963-61)

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1965 [François Jacob](https://en.wikipedia.org/wiki/Fran%C3%A7ois_Jacob)https://upload.wikimedia.org/wikipedia/en/thumb/c/c3/Flag_of_France.svg/23px-Flag_of_France.svg.png [France](https://en.wikipedia.org/wiki/France" \o "France)"for their discoveries concerning [genetic control of enzyme](https://en.wikipedia.org/wiki/Transcription_(genetics)) and [virus synthesis](https://en.wikipedia.org/wiki/Provirus)"[[63]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1965-63)

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**1966** [**Peyton Rous**](https://en.wikipedia.org/wiki/Francis_Peyton_Rous)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for his discovery of [tumour](https://en.wikipedia.org/wiki/Tumour" \o "Tumour)-inducing**[**viruses**](https://en.wikipedia.org/wiki/Virus)**"**[**[64]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1966-64)

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1968 [Marshall W. Nirenberg](https://en.wikipedia.org/wiki/Marshall_Warren_Nirenberg)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their interpretation of the [genetic code](https://en.wikipedia.org/wiki/Genetic_code) and its function in [protein synthesis](https://en.wikipedia.org/wiki/Protein_biosynthesis)"[[66]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1968-66)

1969 [Max Delbrück](https://en.wikipedia.org/wiki/Max_Delbr%C3%BCck)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the replication mechanism and the genetic structure of [viruses](https://en.wikipedia.org/wiki/Virus)"[[68]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1969-68)

1969 [Alfred D. Hershey](https://en.wikipedia.org/wiki/Alfred_Hershey)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the replication mechanism and the genetic structure of [viruses](https://en.wikipedia.org/wiki/Virus)"[[68]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1969-68)

1969 [Salvador E. Luria](https://en.wikipedia.org/wiki/Salvador_Luria)https://upload.wikimedia.org/wikipedia/en/thumb/0/03/Flag_of_Italy.svg/23px-Flag_of_Italy.svg.png [Italy](https://en.wikipedia.org/wiki/Italy) https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the replication mechanism and the genetic structure of [viruses](https://en.wikipedia.org/wiki/Virus)"[[68]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1969-68)

1970 [Julius Axelrod](https://en.wikipedia.org/wiki/Julius_Axelrod)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the humoral [transmittors in the nerve terminals](https://en.wikipedia.org/wiki/Neurotransmitter" \o "Neurotransmitter) and the mechanism for their storage, release and inactivation"[[69]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1970-69)

1970 [Ulf von Euler](https://en.wikipedia.org/wiki/Ulf_von_Euler)https://upload.wikimedia.org/wikipedia/en/thumb/4/4c/Flag_of_Sweden.svg/23px-Flag_of_Sweden.svg.png [Sweden](https://en.wikipedia.org/wiki/Sweden" \o "Sweden)"for their discoveries concerning the humoral [transmittors in the nerve terminals](https://en.wikipedia.org/wiki/Neurotransmitter" \o "Neurotransmitter) and the mechanism for their storage, release and inactivation"[[69]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1970-69)

1970 Sir [Bernard Katz](https://en.wikipedia.org/wiki/Bernard_Katz)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning the humoral [transmittors in the nerve terminals](https://en.wikipedia.org/wiki/Neurotransmitter" \o "Neurotransmitter) and the mechanism for their storage, release and inactivation"[[69]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1970-69)

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1972 [Gerald M. Edelman](https://en.wikipedia.org/wiki/Gerald_Edelman)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the chemical structure of [antibodies](https://en.wikipedia.org/wiki/Antibodies)"[[71]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1972-71)

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1973 [Karl von Frisch](https://en.wikipedia.org/wiki/Karl_von_Frisch)https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [West Germany](https://en.wikipedia.org/wiki/West_Germany)"for their discoveries concerning organization and elicitation of individual and social behaviour patterns"[[72]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1973-72)

1973 [Konrad Lorenz](https://en.wikipedia.org/wiki/Konrad_Lorenz)https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Flag_of_Austria.svg/23px-Flag_of_Austria.svg.png [Austria](https://en.wikipedia.org/wiki/Austria" \o "Austria)"for their discoveries concerning organization and elicitation of individual and social behaviour patterns"[[72]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1973-72)

1973 [Nikolaas Tinbergen](https://en.wikipedia.org/wiki/Nikolaas_Tinbergen)https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Flag_of_the_Netherlands.svg/23px-Flag_of_the_Netherlands.svg.png [Netherlands](https://en.wikipedia.org/wiki/Netherlands" \o "Netherlands)"for their discoveries concerning organization and elicitation of individual and social behaviour patterns"[[72]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1973-72)

1974 [Albert Claude](https://en.wikipedia.org/wiki/Albert_Claude)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the [structural and functional organization of the cell](https://en.wikipedia.org/wiki/Organelle)"[[73]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1974-73)

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**1978** [**Werner Arber**](https://en.wikipedia.org/wiki/Werner_Arber)**https://upload.wikimedia.org/wikipedia/commons/thumb/f/f3/Flag_of_Switzerland.svg/16px-Flag_of_Switzerland.svg.png  [Switzerland](https://en.wikipedia.org/wiki/Switzerland" \o "Switzerland)"for the discovery of**[**restriction enzymes**](https://en.wikipedia.org/wiki/Restriction_enzyme)**and their application to problems of**[**molecular genetics**](https://en.wikipedia.org/wiki/Molecular_genetics)**"**[**[77]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1978-77)

**1978** [**Daniel Nathans**](https://en.wikipedia.org/wiki/Daniel_Nathans)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for the discovery of**[**restriction enzymes**](https://en.wikipedia.org/wiki/Restriction_enzyme)**and their application to problems of**[**molecular genetics**](https://en.wikipedia.org/wiki/Molecular_genetics)**"**[**[77]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1978-77)

**1978** [**Hamilton O. Smith**](https://en.wikipedia.org/wiki/Hamilton_O._Smith)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for the discovery of**[**restriction enzymes**](https://en.wikipedia.org/wiki/Restriction_enzyme)**and their application to problems of**[**molecular genetics**](https://en.wikipedia.org/wiki/Molecular_genetics)**"**[**[77]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1978-77)

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1979 Sir [Godfrey N. Hounsfield](https://en.wikipedia.org/wiki/Godfrey_Hounsfield)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for the development of [computer assisted tomography](https://en.wikipedia.org/wiki/Computer_assisted_tomography)"[[78]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1979-78)

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1982 Sir [John R. Vane](https://en.wikipedia.org/wiki/John_Vane)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning [prostaglandins](https://en.wikipedia.org/wiki/Prostaglandin) and related biologically active substances"[[81]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1982-81)

**1983** [**Barbara McClintock**](https://en.wikipedia.org/wiki/Barbara_McClintock)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for her discovery of**[**mobile genetic elements**](https://en.wikipedia.org/wiki/Transposon)**"**[**[82]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1983-82)

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1988 Sir [James W. Black](https://en.wikipedia.org/wiki/James_Black_(pharmacologist))https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries of important principles for [drug treatment](https://en.wikipedia.org/wiki/Pharmacology)"[[87]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1988-87)

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**1989** [**Harold E. Varmus**](https://en.wikipedia.org/wiki/Harold_E._Varmus)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for their discovery of the cellular origin of** [**retroviral**](https://en.wikipedia.org/wiki/Retrovirus)[**oncogenes**](https://en.wikipedia.org/wiki/Oncogene)**"**[**[88]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1989-88)

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**1992**[**Edwin G. Krebs**](https://en.wikipedia.org/wiki/Edwin_G._Krebs)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for their discoveries concerning reversible**[**protein**](https://en.wikipedia.org/wiki/Protein)[**phosphorylation**](https://en.wikipedia.org/wiki/Phosphorylation)**as a biological regulatory mechanism"**[**[91]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1992-91)

1993Sir [Richard J. Roberts](https://en.wikipedia.org/wiki/Richard_J._Roberts)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries of [split genes](https://en.wikipedia.org/wiki/Split_gene)"[[92]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1993-92)

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**1997**[**Stanley B. Prusiner**](https://en.wikipedia.org/wiki/Stanley_B._Prusiner)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for his discovery of**[**Prions**](https://en.wikipedia.org/wiki/Prion)**- a new biological principle of infection"**[**[96]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-1997-96)

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**2001** [**Leland H. Hartwell**](https://en.wikipedia.org/wiki/Leland_H._Hartwell)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for their discoveries of key regulators of the**[**cell cycle**](https://en.wikipedia.org/wiki/Cell_cycle)**"**[**[100]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2001-100)

**2001 Sir**[**Tim Hunt**](https://en.wikipedia.org/wiki/Tim_Hunt)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for their discoveries of key regulators of the**[**cell cycle**](https://en.wikipedia.org/wiki/Cell_cycle)**"**[**[100]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2001-100)

**2001 Sir**[**Paul M. Nurse**](https://en.wikipedia.org/wiki/Paul_Nurse)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for their discoveries of key regulators of the**[**cell cycle**](https://en.wikipedia.org/wiki/Cell_cycle)**"**[**[100]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2001-100)

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2002 Sir [John E. Sulston](https://en.wikipedia.org/wiki/John_Sulston)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning 'genetic regulation of organ development and [programmed cell death](https://en.wikipedia.org/wiki/Apoptosis)'"[[101]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2002-101)

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2003 Sir [Peter Mansfield](https://en.wikipedia.org/wiki/Peter_Mansfield)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries concerning [magnetic resonance imaging](https://en.wikipedia.org/wiki/Magnetic_resonance_imaging)"[[102]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2003-102)

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2005 [J. Robin Warren](https://en.wikipedia.org/wiki/Robin_Warren)https://upload.wikimedia.org/wikipedia/commons/thumb/8/88/Flag_of_Australia_%28converted%29.svg/23px-Flag_of_Australia_%28converted%29.svg.png [Australia](https://en.wikipedia.org/wiki/Australia" \o "Australia)"for their discovery of the bacterium [*Helicobacter pylori*](https://en.wikipedia.org/wiki/Helicobacter_pylori) and its role in [gastritis](https://en.wikipedia.org/wiki/Gastritis) and [peptic ulcer disease](https://en.wikipedia.org/wiki/Peptic_ulcer_disease)"[[104]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2005-104)

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2007 Sir [Martin J. Evans](https://en.wikipedia.org/wiki/Martin_Evans)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries of principles for introducing specific gene modifications in mice by the use of [embryonic stem cells](https://en.wikipedia.org/wiki/Embryonic_stem_cell)."[[106]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2007-106)

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2008 [Luc Montagnier](https://en.wikipedia.org/wiki/Luc_Montagnier)https://upload.wikimedia.org/wikipedia/en/thumb/c/c3/Flag_of_France.svg/23px-Flag_of_France.svg.png [France](https://en.wikipedia.org/wiki/France" \o "France)"for their discovery of [human immunodeficiency virus](https://en.wikipedia.org/wiki/Human_immunodeficiency_virus)"[[107]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2008-107)

**2009** [**Elizabeth H. Blackburn**](https://en.wikipedia.org/wiki/Elizabeth_Blackburn)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States) **https://upload.wikimedia.org/wikipedia/commons/thumb/8/88/Flag_of_Australia_%28converted%29.svg/23px-Flag_of_Australia_%28converted%29.svg.png [Australia](https://en.wikipedia.org/wiki/Australia" \o "Australia)"for the discovery of how**[**chromosomes**](https://en.wikipedia.org/wiki/Chromosome)**are protected by**[**telomeres**](https://en.wikipedia.org/wiki/Telomere)**and the**[**enzyme**](https://en.wikipedia.org/wiki/Enzyme)[**telomerase**](https://en.wikipedia.org/wiki/Telomerase)**"**[**[108]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2009-108)

**2009** [**Carol W. Greider**](https://en.wikipedia.org/wiki/Carol_W._Greider)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for the discovery of how**[**chromosomes**](https://en.wikipedia.org/wiki/Chromosome)**are protected by**[**telomeres**](https://en.wikipedia.org/wiki/Telomere)**and the**[**enzyme**](https://en.wikipedia.org/wiki/Enzyme)[**telomerase**](https://en.wikipedia.org/wiki/Telomerase)**"**[**[108]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2009-108)

**2009** [**Jack W. Szostak**](https://en.wikipedia.org/wiki/Jack_W._Szostak)**https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png**[**United States**](https://en.wikipedia.org/wiki/United_States)**"for the discovery of how**[**chromosomes**](https://en.wikipedia.org/wiki/Chromosome)**are protected by**[**telomeres**](https://en.wikipedia.org/wiki/Telomere)**and the**[**enzyme**](https://en.wikipedia.org/wiki/Enzyme)[**telomerase**](https://en.wikipedia.org/wiki/Telomerase)**"**[**[108]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2009-108)

2010 Sir [Robert G. Edwards](https://en.wikipedia.org/wiki/Robert_G._Edwards)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for the development of [in vitro fertilization](https://en.wikipedia.org/wiki/In_vitro_fertilization)"[[109]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2010-109)

2011 [Bruce A. Beutler](https://en.wikipedia.org/wiki/Bruce_Beutler)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning the activation of [innate immunity](https://en.wikipedia.org/wiki/Innate_immunity)"[[110]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2011-110)

2011 [Jules A. Hoffmann](https://en.wikipedia.org/wiki/Jules_A._Hoffmann)https://upload.wikimedia.org/wikipedia/en/thumb/c/c3/Flag_of_France.svg/23px-Flag_of_France.svg.png [France](https://en.wikipedia.org/wiki/France" \o "France)"for their discoveries concerning the activation of [innate immunity](https://en.wikipedia.org/wiki/Innate_immunity)"[[110]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2011-110)

2011 [Ralph M. Steinman](https://en.wikipedia.org/wiki/Ralph_M._Steinman)https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Canada_%28Pantone%29.svg/23px-Flag_of_Canada_%28Pantone%29.svg.png [Canada](https://en.wikipedia.org/wiki/Canada" \o "Canada)"for his discovery of the [dendritic cell](https://en.wikipedia.org/wiki/Dendritic_cell) and its role in [adaptive immunity](https://en.wikipedia.org/wiki/Adaptive_immunity)" (awarded posthumously)[[111]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-111)[[112]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-guardian_nobel_prize-112)[[110]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2011-110)

**2012 Sir**[**John B. Gurdon**](https://en.wikipedia.org/wiki/John_Gurdon)**https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png**[**United Kingdom**](https://en.wikipedia.org/wiki/United_Kingdom)**"for the discovery that mature cells can be**[**reprogrammed**](https://en.wikipedia.org/wiki/Induced_pluripotent_stem_cell)**to become**[**pluripotent**](https://en.wikipedia.org/wiki/Pluripotency_(biological_compounds))**"**[**[113]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2012-113)

**2012** [**Shinya Yamanaka**](https://en.wikipedia.org/wiki/Shinya_Yamanaka)**https://upload.wikimedia.org/wikipedia/en/thumb/9/9e/Flag_of_Japan.svg/23px-Flag_of_Japan.svg.png [Japan](https://en.wikipedia.org/wiki/Japan" \o "Japan)"for the discovery that mature cells can be**[**reprogrammed**](https://en.wikipedia.org/wiki/Induced_pluripotent_stem_cell)**to become**[**pluripotent**](https://en.wikipedia.org/wiki/Pluripotency_(biological_compounds))**"**[**[113]**](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2012-113)

2013 [James E. Rothman](https://en.wikipedia.org/wiki/James_E._Rothman)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of machinery regulating [vesicle](https://en.wikipedia.org/wiki/Vesicle_(biology_and_chemistry)) traffic, a major transport system in our [cells](https://en.wikipedia.org/wiki/Cell_(biology))"[[114]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2013-114)

2013 [Randy W. Schekman](https://en.wikipedia.org/wiki/Randy_W._Schekman)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of machinery regulating [vesicle](https://en.wikipedia.org/wiki/Vesicle_(biology_and_chemistry)) traffic, a major transport system in our [cells](https://en.wikipedia.org/wiki/Cell_(biology))"[[114]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2013-114)

2013[Thomas C. Südhof](https://en.wikipedia.org/wiki/Thomas_C._S%C3%BCdhof)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [Germany](https://en.wikipedia.org/wiki/Germany" \o "Germany)"for their discoveries of machinery regulating [vesicle](https://en.wikipedia.org/wiki/Vesicle_(biology_and_chemistry)) traffic, a major transport system in our [cells](https://en.wikipedia.org/wiki/Cell_(biology))"[[114]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2013-114)

2014 [John O'Keefe](https://en.wikipedia.org/wiki/John_O%27Keefe_(neuroscientist))https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries of cells that constitute a positioning system in the brain"[[115]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2014-115)

2014 [May-Britt Moser](https://en.wikipedia.org/wiki/May-Britt_Moser)https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway" \o "Norway)"for their discoveries of cells that constitute a positioning system in the brain"[[115]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2014-115)

2014 [Edvard I. Moser](https://en.wikipedia.org/wiki/Edvard_I._Moser)https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway" \o "Norway)"for their discoveries of cells that constitute a positioning system in the brain"[[115]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2014-115)

2015 [William C. Campbell](https://en.wikipedia.org/wiki/William_C._Campbell_(scientist))https://upload.wikimedia.org/wikipedia/commons/thumb/4/45/Flag_of_Ireland.svg/23px-Flag_of_Ireland.svg.png [Ireland](https://en.wikipedia.org/wiki/Republic_of_Ireland) https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries concerning [a novel therapy](https://en.wikipedia.org/wiki/Avermectin) against infections caused by roundworm parasites"[[116]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2015-116)

2015 [Satoshi Ōmura](https://en.wikipedia.org/wiki/Satoshi_%C5%8Cmura)https://upload.wikimedia.org/wikipedia/en/thumb/9/9e/Flag_of_Japan.svg/23px-Flag_of_Japan.svg.png [Japan](https://en.wikipedia.org/wiki/Japan" \o "Japan)"for their discoveries concerning [a novel therapy](https://en.wikipedia.org/wiki/Avermectin) against infections caused by roundworm parasites"[[116]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2015-116)

2015 [Tu Youyou](https://en.wikipedia.org/wiki/Tu_Youyou)https://upload.wikimedia.org/wikipedia/commons/thumb/f/fa/Flag_of_the_People%27s_Republic_of_China.svg/23px-Flag_of_the_People%27s_Republic_of_China.svg.png [China](https://en.wikipedia.org/wiki/China" \o "China)"for her discoveries concerning [a novel therapy](https://en.wikipedia.org/wiki/Artemisinin) against [malaria](https://en.wikipedia.org/wiki/Malaria)"[[116]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2015-116)

2016 [Yoshinori Ohsumi](https://en.wikipedia.org/wiki/Yoshinori_Ohsumi)https://upload.wikimedia.org/wikipedia/en/thumb/9/9e/Flag_of_Japan.svg/23px-Flag_of_Japan.svg.png [Japan](https://en.wikipedia.org/wiki/Japan" \o "Japan)"for his discoveries of mechanisms for [autophagy](https://en.wikipedia.org/wiki/Autophagy)"[[117]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2016-117)

2017 [Jeffrey C. Hall](https://en.wikipedia.org/wiki/Jeffrey_C._Hall)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of molecular mechanisms controlling the [circadian rhythm](https://en.wikipedia.org/wiki/Circadian_rhythm)"[[118]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2017-118)

2017 [Michael Rosbash](https://en.wikipedia.org/wiki/Michael_Rosbash)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of molecular mechanisms controlling the [circadian rhythm](https://en.wikipedia.org/wiki/Circadian_rhythm)"[[118]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2017-118)

2017 [Michael W. Young](https://en.wikipedia.org/wiki/Michael_W._Young)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of molecular mechanisms controlling the [circadian rhythm](https://en.wikipedia.org/wiki/Circadian_rhythm)"[[118]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2017-118)

2018 [James P. Allison](https://en.wikipedia.org/wiki/James_P._Allison)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discovery of cancer therapy by inhibition of negative immune regulation"[[119]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2018-119)

2018 [Tasuku Honjo](https://en.wikipedia.org/wiki/Tasuku_Honjo)https://upload.wikimedia.org/wikipedia/en/thumb/9/9e/Flag_of_Japan.svg/23px-Flag_of_Japan.svg.png [Japan](https://en.wikipedia.org/wiki/Japan" \o "Japan)"for their discovery of cancer therapy by inhibition of negative immune regulation"[[119]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2018-119)

2019 [William Kaelin Jr.](https://en.wikipedia.org/wiki/William_Kaelin_Jr.)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of [how cells](https://en.wikipedia.org/wiki/Cellular_respiration) sense and adapt to oxygen availability"[[120]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2019-120)

2019 [Peter J. Ratcliffe](https://en.wikipedia.org/wiki/Peter_J._Ratcliffe)https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for their discoveries of [how cells](https://en.wikipedia.org/wiki/Cellular_respiration) sense and adapt to oxygen availability"[[120]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2019-120)

2019 [Gregg L. Semenza](https://en.wikipedia.org/wiki/Gregg_L._Semenza)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for their discoveries of [how cells](https://en.wikipedia.org/wiki/Cellular_respiration) sense and adapt to oxygen availability"[[120]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2019-120)

2020 [Harvey J. Alter](https://en.wikipedia.org/wiki/Harvey_J._Alter)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for the discovery of [Hepatitis C virus](https://en.wikipedia.org/wiki/Hepatitis_C_virus)"[[121]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2020-121)

2020 [Michael Houghton](https://en.wikipedia.org/wiki/Michael_Houghton_(virologist))https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom)"for the discovery of [Hepatitis C virus](https://en.wikipedia.org/wiki/Hepatitis_C_virus)"[[121]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2020-121)

2020 [Charles M. Rice](https://en.wikipedia.org/wiki/Charles_M._Rice)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for the discovery of [Hepatitis C virus](https://en.wikipedia.org/wiki/Hepatitis_C_virus)"[[121]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2020-121)

2021 [David Julius](https://en.wikipedia.org/wiki/David_Julius)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)"for the discovery of receptors for temperature and touch"[[122]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2021-122)

2021 [Ardem Patapoutian](https://en.wikipedia.org/wiki/Ardem_Patapoutian)https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States)https://upload.wikimedia.org/wikipedia/commons/thumb/5/59/Flag_of_Lebanon.svg/23px-Flag_of_Lebanon.svg.png [Lebanon](https://en.wikipedia.org/wiki/Lebanon" \o "Lebanon)"for the discovery of receptors for temperature and touch"[[122]](https://en.wikipedia.org/wiki/List_of_Nobel_laureates_in_Physiology_or_Medicine#cite_note-nobel-2021-122)

**The first woman to win a Nobel Prize was Marie Curie, who won the Nobel Prize in Physics in 1903 with her husband, Pierre Curie, and Henri Becquerel; in 1911, she won the Nobel Prize in Chemistry. Curie's daughter, Irène Joliot-Curie, won the Nobel Prize in Chemistry in 1935, making the two the only mother-daughter pair to have won Nobel Prizes**

**Scientists Jenifer Doudna and Emmanuelle Charpentier received the prestigious Nobel Prize in Chemistry for 2020 for their large contribution to the development of so-called genetic scissors, the CRIPSR-Cas9 method.**