

# Scientific References for Nobel Physiology & Medicine Prizes

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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](mailto:jandraos@yorku.ca)

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## 1901 - Emil Adolf von Behring

*"for his work on serum therapy, especially its application against 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."*

## 1902 - Ronald Ross

*"for his work on 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."*

Ross, R. *Yale J. Biol. Med.* **2002**, 75, 103 (reprint)

Ross, R. *Wilderness Environ. Med.* **1999**, 10, 29 (reprint)

Ross, R. *J. Communicable Diseases* **1997**, 29, 187 (reprint)

Ross, R.; Smyth, J. *Ind. J. Malarialogy* **1997**, 34, 47

## 1903 - Niels Ryberg Finsen

*"in recognition of his contributions to the treatment of diseases, especially lupus vulgaris, with concentrated light radiation, whereby he has opened a new avenue for medical science."*

## 1904 - Ivan Petrovich Pavlov

*"in recognition of his work on the physiology of digestion, through which knowledge on vital aspects of the subject has been transformed and enlarged."*

## 1905 - Robert Koch

*"for his investigations and discoveries in relation to tuberculosis."*

## 1906 - Camillo Golgi and Santiago Ramón y Cajal

*"in recognition of their work on the structure of the nervous system."*

Golgi, C. *J. Microscopy* **1989**, 155(Pt. 1), 3; 9 (reprint)

Golgi, C. *Haematologica* **1920**, 1

## 1907 - Charles Louis Alphonse Laveran

*"in recognition of his work on the role played by protozoa in causing diseases."*

## 1908 - Ilya Ilyich Mechnikov and Paul Ehrlich

*"in recognition of their work on immunity."*

## Development of arsenic compounds to treat diseases

- Ehrlich, P.; Bertheim, A. *Chem. Ber.* **1907**, 40, 3292  
 Ehrlich, P.; Bertheim, A. *Chem. Ber.* **1910**, 43, 917  
 Ehrlich, P. *Verh. 27. Kongr. Innere Med., Wiesbaden* **1910**, 27, 226  
 Ehrlich, P. *Deutsch. Med. Wschr.* **1910**, 36, 1893  
 Ehrlich, P. *Munch. Med. Wschr.* **1911**, 58, 1; 2481

## Development of chemotherapy

- Ehrlich, P. *J. Roy. Inst. Public Health* **1907**, 15, 449  
 Ehrlich, P. *Chem. Ber.* **1909**, 42, 17  
 Ehrlich, P. *Z. Angew. Chem.* **1910**, 23, 2  
 Ehrlich, P. *Folia Serol.* **1911**, 7, 697  
 Ehrlich, P. *Lancet* **1917**, 1634  
 Ehrlich, P. *Lancet* **1913**, 2, 445  
 Ehrlich, P. *Brit. Med. J.* **1913**, 2, 353  
 Mechnikov, I.I. *Rev. Infectious Diseases* **1988**, 10, 223 (reprint)

## Ehrlich's reagent (1,4-aminobenzaldehyde)

- Adams, R.; Coleman, G.H. *Org. Synth. Coll. Vol. I* **1932**, 214  
 Campaigne, E.; Archer, W.L. *Org. Synth. Coll. Vol. IV* **1963**, 331

### 1909 - Emil Theodor Kocher

*"for his work on the physiology, pathology, and surgery of the thyroid gland."*

### 1910 - Albrecht Kossel

*"in recognition of the contributions to our knowledge of cell chemistry made through his work on proteins, including the nucleic substances."*

## Guanine

- Kossel, A. *Z. Physiol. Chem.* **1883-4**, 8, 404  
 Kossel, A. *Chem. Ber.* **1883**, 17, 537

## Adenine and Thymine

- Kossel, A. *Z. Physiol. Chem.* **1886**, 10, 248  
 Kossel, A. *Z. Physiol. Chem.* **1888**, 12, 241  
 Kossel, A. *Z. Physiol. Chem.* **1896**, 22, 188  
 Kossel, A. *Chem. Ber.* **1885**, 18, 79; 1928  
 Kossel, A. *Chem. Ber.* **1887**, 20, 3356  
 Kossel, A. *Chem. Ber.* **1888**, 21, 2164  
 Kossel, A.; Neumann, A. *Chem. Ber.* **1893**, 26, 2753  
 Kossel, A.; Neumann, A. *Chem. Ber.* **1894**, 27, 2215

## Cytosine

- Kossel, A.; Steudel, H. *Z. Physiol. Chem.* **1903**, 38, 49

## Uracil

- Kossel, A.; Steudel, H. *Z. Physiol. Chem.* **1902-1903**, 37, 245

**1911 - Allvar Gullstrand**

*"for his work on the dioptrics of the eye."*

**1912 - Alexis Carrel**

*"in recognition of his work on vascular suture and the transplantation of blood vessels and organs."*

Carrel, A.; Guthrie, C.C. *Yale J. Biol. Med.* **2001**, 74, 243 (reprint)

Carrel, A. *J. Am. Med. Assoc.* **1983**, 250, 944

**1913 - Charles Robert Richet**

*"in recognition of his work on anaphylaxis."*

Richet, C. *Ann. De l'Institut Pasteur* **1907**, 21, 497

Richet, C. *Arch. Intern. De Pharmacodynamie Et de Therapie* **1908**, 18, 5

Richet, C. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1909**, 65, 404

Richet, C. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1910**, 66, 810; 1005

Richet, C. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1910**, 67, 787

Richet, C. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1910**, 68, 500

Laroche, G.; Richet, C.; Saint Girons, F. *Arch. Med. Exp. D'Anat. Pathol.* **1912**, 23, 643

Richet, C. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1913**, 72, 944

Laroche, G.; Richet, C.; Saint Girons, F. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1913**, 74, 87

Richet, C. *Compt. Rend.* **1914**, 158, 304; 1311

**1914 - Robert Bárány**

*"for his work on the physiology and pathology of the vestibular apparatus."*

1915 - No prize awarded due to WWI.

1916 - No prize awarded due to WWI.

1917 - No prize awarded due to WWI.

1918 - No prize awarded due to WWI.

1919 - No prize awarded due to WWI.

**1920 - Jules Bordet (prize for 1919)**

*"for his discoveries relating to immunity."*

Bordet, J. *Ann. Bull. Soc. Roy. Sci. Med. Nat.* **1914**, 71, 25

Bordet, J. *Zentralbl. Biochem. Biophys.* **1914**, 15, 190

Bordet, J. *Bull. Acad. Roy. Med. Belg.* **1919**, 29, 635

**1920 - Schack August Steenberg Krogh**

*"for his discovery of the capillary motor regulating mechanism."*

Krogh, A. *J. Physiology* **1919**, 52, 409; 457

Krogh, A.; Rheberg, P.B. *Compt. Rend. Seances Soc. Biol. Et de ses Filiales* **1922**, 87, 461

Krogh, A. *J. Pharmacol.* **1926**, 29, 177

1921 - No prize awarded.

1922 - No prize awarded.

**1923 - Archibald Vivian Hill (prize for 1922)**

*"for his discovery relating to the production of heat in the muscle."*

Hill, A.V. *J. Physiol.* **1911**, 42, 1

Hill, A.V. *J. Physiol.* **1912**, 43, 261

Hill, A.V. *J. Physiol.* **1913**, 44, 466

Hill, A.V. *J. Physiol.* **1913**, 46, 29

Hill, A.V. *J. Chem. Soc. Abstr.* **1913**, 102, 784

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Hill, A.V.; Hartree, W. *J. Physiol.* **1920**, 54, 84

Hill, A.V. *Proc. Roy. Soc. London* **1921**, 92B, 178

Hartree, W.; Hill, A.V. *J. Physiol.* **1922**, 56, 294; 367

Hartree, W.; Hill, A.V. *Proc. Physiol. Soc., J. Physiol.* **1924**, 56, xxiii

Hartree, W.; Hill, A.V. *J. Physiol.* **1923**, 58, 127

Hartree, W.; Hill, A.V. *J. Physiol.* **1924**, 58, 441

**1923 - Otto Fritz Meyerhoff (prize for 1922)**

*"for his discovery of the fixed relationship between the consumption of oxygen and the metabolism of lactic acid in the muscle."*

**Lactic acid metabolism**

Meyerhoff, O. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1919**, 175, 88

Meyerhoff, O. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1920**, 185, 11

Meyerhoff, O. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1920**, 182, 232; 284

Meyerhoff, O. *Naturwiss.* **1920**, 8, 696

Meyerhoff, O. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1921**, 188, 114

Meyerhoff, O. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1922**, 195, 22

Meyerhoff, O. *Chem. Ber.* **1925**, 58B, 991

Meyerhoff, O. *Biochem. Z.* **1925**, 162, 43

Meyerhoff, O.; Schulz, W. *Pfluger's Arch. Ges. Physiol. Menschen und Tiere* **1927**, 217, 547

Meyerhoff, O.; Ohlmeyer, P.; Mohle, W. *Biochem. Z.* **1938**, 297, 90

**Coining of "hexokinase" name**

Meyerhoff, O. *Lancet* **1930**, 2, 1415

Meyerhoff, O. *Biochem. Z.* **1932**, 246, 249

Meyerhoff, O. *Naturwiss.* **1935**, 23, 850

**1923 - Frederick Grant Banting and John James Richard Macleod**

*"for the discovery of insulin."*

Banting, F.G.; Best, C.H.; Collip, J.P.; Macleod, J.J.R.; Noble, E.C. *Am. J. Physiol.* **1922**, 62, 162; 559

Banting, F.G.; Best, C.H.; Collip, J.P.; Hepburn, J.; Macleod, J.J.R.; Noble, E.C. *Proc. Trans. Roy. Soc. Canada* **1922**, 16, 1

Banting, F.G.; Campbell, W.R.; Fletcher, A.A. *J. Metabolic Res.* **1922**, 2, 547

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Best, C.H.; Scott, D.A.; Banting, F.G. *Proc. Trans. Roy. Soc. Canada* **1923**, 17, 81

Gilchrist, J.A.; Best, C.H.; Banting, F.G. *Can. Med. Assoc. J.* **1923**, 13, 565

Order, T.; Banting, F.G.; Cammidge, P.J.; et al. *Brit. Med. J.* **1923**, 2, 175; 445

Banting, F.G.; Campbely, W.R.; Fletcher, A.A. *Brit. Med. J.* **1923**, 1, 8

Banting, F.G.; Gairns, S. *Am. J. Physiol.* **1924**, 68, 24

Macleod, J.J.R.; Banting, F.G. *The Antidiabetic Functions of the Pancreas and the Successful Isolation of the Antidiabetic Hormone Insulin*, C.V. Mosby Co.: St. Louis, 1924

Banting, F.G. *Science* **1937**, 85, 594

Banting, F.G.; Best, C.H. *J. Lab. Clin. Med.* **1990**, 115, 254 (reprint)

### **1924 - Willem Einthoven**

*"for his discovery of the mechanism of the electrocardiogram."*

Einthoven, W.; Bijtel, J. *Archiv. Neerlandaises de Physiol.* **1922**, 7, 407

1925 - No prize awarded.

1926 - No prize awarded.

### **1927 - Johannes Andreas Grib Fibiger (prize for 1926)**

*"for his discovery of the Spiroptera carcinoma."*

Fibiger, J. *J. Am. Med. Assoc.* **1914**, 63, 1244; 1432

Fibiger, J. *Hospitalstidende* **1914**, 57,

### **1927 - Julius Wagner-Jauregg (prize for 1927)**

*"for his discovery of the therapeutic value of malaria inoculation in the treatment of dementia paralytica."*

Wagner-Jauregg, J. *Am. J. Psychiatry* **1994**, 151, 231 (reprint)

### **1928 - Charles Jules Henri Nicolle**

*"for his work on typhus."*

Nicolle, C.; Lebailly, C. *Compt. Rend.* **1919**, 168, 800

Nicolle, C.; Blaizot, L. *Ann. Inst. Pasteur* **1916**, 30, 446

Nicolle, C.; Conon, A.; Conseil, E. *Compt. Rend.* **1913**, 157, 147

Nicolle, C.; Conon, A.; Conseil, E. *Ann. Inst. Pasteur* **1912**, 26, 250

Nicolle, C.; Conseil, E. *Compt. Rend.* **1911**, 151, 598

### **1929 - Christiaan Eijkman**

*"for his discovery of the antineuritic vitamin."*

## **Vitamin B1**

Eijkman, C. *Geneesk. Tijdschr. Ned. Indie* **1896**, 36, 214

Eijkman, C. *Virchows Arch. Pathol. Anat. Physiol.* **1897**, 148, 523

Eijkman, C.; van Hoogenhuize, C.J.C. *Proc. Akad. Wetenschappen* **1916**, 18, 1467

Eijkman, C.; Pol, D.J.H. *Proc. Acad. Sci. Amsterdam* **1918**, 21, 48

Eijkman, C. *Pharmaceutisch Weekbl.* **1918**, 15, 767

Eijkmann, C.; van Hoogenhuize, C.J.C.; Derks, T.J.G. *J. Biol. Chem.* **1922**, 50, 311  
 Eijkmann, C. *Verlag van de Gewone Vergadering van de Afdeling Natuurkunde, Koninklijke Nederlandse Akad. Van Wetenschappen* **1927**, 36, 221  
 Eijkmann, C. *Nederlands tijdschrift voor geneeskunde* **1990**, 134, 1654 (reprint)

### **1929 - Frederick Gowland Hopkins**

*"for his discovery of the growth-stimulating vitamins."*

Hopkins, F.G.; Neville, A. *Biochem. J.* **1913**, 7, 97  
 Hopkins, F.G. *Ann. Rep. Prog. Chem.* **1914**, 11, 188  
 Ackroyd, H.; Hopkins, F.G. *Biochem. J.* **1916**, 10, 551  
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 Hopkins, F.G.; Chick, H. *Lancet* **1919**, 2, 28  
 Hopkins, F.G.; Barr, Sir J. et al. *Brit. Med. J.* **1920**, 2, 147  
 Hopkins, F.G. *Biochem. J.* **1920**, 14, 724  
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 Hopkins, F.G. *Lancet* **1921**, 1, 1  
 Hopkins, F.G.; Chick, H. *Lancet* **1928**, 1, 148  
 Hopkins, F.G.; Leader, V.R. *J. Hygiene* **1945**, 44, 149

### **1930 - Karl Landsteiner**

*"for his discovery of human blood groups."*

Landsteiner, K.; Lampl, H. *Zentralbl. Physiol.* **1915**, 30, 329  
 Landsteiner, K.; Levine, P.; Janes, J.L. *Proc. Soc. Exp. Biol. Med.* **1928**, 25, 672  
 Landsteiner, K. *Science* **1931**, 73, 403  
 Landsteiner, K.; Chase, M.W. *Proc. Soc. Exp. Biol. Med.* **1935**, 62, 713  
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 Landsteiner, K.; Harte, R.A. *J. Biol. Chem.* **1941**, 140, 673  
 Landsteiner, K. *Wiener Klin. Wochenschr.* **2001**, 113, 768 (reprint)

### **1931 - Otto Heinrich Warburg**

*"for his discovery of the nature and mode of action of the respiratory enzyme."*

Warburg, Otto. London, Pfluegers Archiv fuer die Gesamte Physiologie des Menschen und der Tiere (1912), 145 277-282.  
 Warburg, O.; Mayerhof, O. Pfluegers Archiv fuer die Gesamte Physiologie des Menschen und der Tiere (1914), 148 295-310.  
 Warburg, Otto. Kaiser Wilhelm Inst., Z. physiol. Chem. (1914), 92 231-56  
 Warburg, Otto; Negelein, Erwin; Posener, Karl. Klinische Wochenschrift (1924), 3 1062-4.  
 Warburg, Otto. Biochemische Zeitschrift (1926), 172 432-41.  
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 Warburg, Otto; Negelein, Erwin. Biochemische Zeitschrift (1928), 193 334-8.  
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 Warburg, Otto. Science (Washington, DC, United States) (1928), 68 437-43.  
 Warburg, Otto. Biochemical Journal (1928), 201 486-8.  
 Warburg, Otto; Kubowitz, Fritz. Kaiser Wilhelm-Inst. fur Biologie, Berlin-Dahlem, Biochemische Zeitschrift (1928), 203 95-8.  
 Warburg, Otto. Naturwissenschaften (1928), 16 856-61.  
 Warburg, Otto. Biochemische Zeitschrift (1929), 204 482-3.

Warburg, Otto; Negelein, Erwin. *Biochemische Zeitschrift* (1929), 204 495-9.  
 Warburg, Otto. *Biochemische Zeitschrift* (1929), 214 1-3.  
 Warburg, Otto. *Biochemische Zeitschrift* (1929), 214 4.  
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 Warburg, Otto; Kubowitz, Fritz; Christian, Walter. *Biochemische Zeitschrift* (1930), 221 494-7.  
 Warburg, Otto; Kubowitz, Fritz. *Biochemische Zeitschrift* (1930), 227 184-99.  
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 Warburg, Otto. *Transactions of the Faraday Society* (1931), 27 551-4.  
 Warburg, Otto; Negelein, Erwin. *Biochemische Zeitschrift* (1932), 244 9-32.  
 Warburg, Otto; Christian, Walter. *Biochemische Zeitschrift* (1932), 254 438-58.  
 Warburg, Otto; Christian, Walter. *Naturwissenschaften* (1932), 20 980-1.

## Riboflavin (vitamin B2, vitamin G)

Osborne, T.B.; Mendel, L.B. *J. Biol. Chem.* **1913**, 15, 311

Warburg, O.; Christian, W. *Biochem. Z.* **1932**, 254, 438

Warburg, O.; Christian, W. *Biochem. Z.* **1933**, 266, 377

## 1932 - Charles Scott Sherrington and Edgar Douglas Adrian

*"for their discoveries regarding the functions of neurons."*

Adrian, E.D. *J. Physiol.* **1914**, 48, 453

Adrian, E.D. *J. Physiol.* **1921**, 55, 326

Adrian, E.D.; Matthews, R. *J. Physiol.* **1927**, 63, 378

Adrian, E.D.; Matthews, R. *J. Physiol.* **1927**, 64, 279

Adrian, E.D. *J. Physiol.* **1931**, 72, 132

## 1933 - Thomas Hunt Morgan

*"for his discoveries concerning the role played by the chromosome in heredity."*

Morgan, T.H. *Proc. Roy. Soc. London* **1922**, 94B, 162

## 1934 - George Hoyt Whipple, George Richards Minot, and William Parry Murphy

*"for their discoveries concerning liver therapy in cases of anemia."*

Minot, G.R.; Murphy, W.P. *J. Am. Med. Assoc.* **1926**, 87, 470

Minot, G.R.; Murphy, W.P. *Expt. Station Record (US Dept. Agriculture)* **1926**, 56, 294

Minot, G.R.; Murphy, W.P. *J. Am. Med. Assoc.* **1927**, 89, 759

Cohn, E.J.; Minot, G.R.; Alles, G.A.; Salter, W.T. *J. Biol. Chem.* **1928**, 77, 325

Whipple, G.H.; Robscheit-Robbins, F.S.; Bale, W.F. *J. Exptl. Med.* **1955**, 102, 725

Hooper, C. W.; Whipple, G. H.. Univ. Calif., *American Journal of Physiology* (1917), 43 275-89.

Whipple, G. H.; Hopper, C. W.; Robscheit, F. S. Univ. Calif. Med. School, *American Journal of Physiology* (1920), 53 236-62.

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 Bogniard, Robert P.; Whipple, George H.. *Journal of Experimental Medicine* (1932), 55 653-65.  
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 MURPHY W P; HOWARD I *New England journal of medicine* (1952 Nov 27), 247(22), 838-40.  
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### 1935 - Hans Spemann

*"for his discovery of the organizer effect in embryonic development."*

Spemann, H.; Fischer, F.G.; Wehmeier, E. *Naturwiss.* **1933**, 21, 505  
 Spemann, H.; Mangold, H. *Int. J. Developmental Biol.* **2001**, 45, 13 (reprint)

### 1936 - Henry Hallett Dale and Otto Loewi

*"for their discoveries relating to chemical transmission of nerve impulses."*

Dale, H. H.; Gaddum, J. H. *Journal of Physiology (Cambridge, United Kingdom)* (1930), 70 109-44.  
 Dale, Henry. *British Medical Journal* (1934), I 835-41.  
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 Dale, H. H.. *J. Physiol. (U. S. S. R.)* (1938), 24 116-25(in English, 116-20; in Russian, 120-5).  
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 Cantoni, G.L.; Loewi, O. *J. Pharmacol.* **1944**, 81, 67  
 Loewi, O. *Science in Progress (Yale U)* **1945**, 4<sup>th</sup> series, 98



**1937 - Albert von Szent-Györgi Nagyrápoly**

*"for his discoveries in connection with the biological combustion processes, with special reference to vitamin C and the catalysis of fumaric acid."*

**Vitamin C (ascorbic acid)**

Szent-Gyorgi, A. *Biochem. J.* **1928**, 22, 1387

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**Fumaric Acid**

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1938 - No prize awarded.

**1939 - Corneille Jean François Heymans (prize for 1938)**

*"for the discovery of the role played by the sinus and aortic mechanisms in the regulation of respiration."*

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**1939 - Gerhard Domagk**

*"for the discovery of the antibacterial effects of prontosil."*

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1940 - No prize awarded due to WWII.

1941 - No prize awarded due to WWII.

1942 - No prize awarded due to WWII.

1943 - No prize awarded due to WWII.

**1944 - Henrik Carl Peter Dam (prize for 1943)**

*"for his discovery of vitamin K."*

**Vitamin K**

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*"for his discovery of the chemical nature of vitamin K."*

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### 1944 - Joseph Erlanger and Herbert Spencer Gasser

*"for their discoveries relating to the highly differentiated functions of single nerve fibres."*

Erlanger, J.; Blair, E.A. *Am. J. Physiol.* **1938**, 124, 341

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