

CURRICULUM VITAE

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Date of Birth: December 22, 1955 in Göttingen, Germany

Nationalities: U.S.A. and Germany

Biographies: http://www.nobelprize.org/nobel_prizes/medicine/laureates/2013/sudhof-bio.html;
https://en.wikipedia.org/wiki/Thomas_C._Südhof

Education:

1975-1977 University of Aachen Medical School
1977-1982 University of Göttingen Medical School
1979 Visiting Student at Harvard Medical School
1978-1981 Assistant Scientist, Max-Planck-Institut für biophysikalische Chemie in Göttingen
1981-1982 Internship at the University Hospital of Göttingen

Degrees:

1982 Licensing as a medical doctor
1982 Recipient of 'Dr. med.' degree; doctoral thesis: "The biophysical structure of chromaffin granules" (mentor: Dr. V. P. Whittaker)

Positions:

1982-1983 Postdoctoral Fellow, Max-Planck-Institut für Biophysikalische Chemie, Göttingen, Germany (mentor: Dr. V. P. Whittaker)
1983-1986 Postdoctoral Fellow, Dept. of Molecular Genetics, UT Southwestern Medical Center at Dallas, Texas (mentors: Drs. M.S. Brown and J.L. Goldstein)
1986-1989 Assistant Investigator, Howard Hughes Medical Institute at Dallas, UT Southwestern
1987-1989 Assistant Professor, Dept. of Molecular Genetics, UT Southwestern
1989-1991 Associate Professor, Dept. of Molecular Genetics, and Associate Investigator, Howard Hughes Medical Institute, UT Southwestern
1991-2008 Professor, Dept. of Molecular Genetics, UT Southwestern Medical Center at Dallas
1991-present Investigator, Howard Hughes Medical Institute
1995-2008 Gill Distinguished Chair in Neuroscience Research, UT Southwestern
1995-1998 Director, Abt. Molekulare Neurobiologie, Max-Planck-Institut für experimentelle Medizin; Göttingen, Germany, and Scientific Member of the Max-Planck-Society
1999-2001 Chair, Graduate Program in Neuroscience, UT Southwestern
1997-2008 Lloyd B. Sands Distinguished Chair in Neuroscience, UT Southwestern
1997-2006 Director, Center for Basic Neuroscience, UT Southwestern
2007-2008 Chair, Dept. of Neuroscience, UT Southwestern
2008-2018 Adjunct Professor of Neuroscience, UT Southwestern
2008-present Avram Goldstein Professor, Dept. of Molecular & Cellular Physiology; by courtesy, Depts. of Neurology and of Psychiatry & Behavioral Sciences, Stanford University School of Medicine
2015-present Director, Center for Molecular Neuroscience in Health and Disease, Stanford University School of Medicine

Honors and Awards:

1993 W. Alden Spencer Award from Columbia University (shared with Richard Scheller)
1994 Wilhelm Feldberg Award

1997	Roger Eckert Award Lecture, Göttingen
1997	U.S. National Academy Award in Molecular Biology (shared with Richard Scheller)
2000-2010	1 st Merit Award, NIMH
2004	Ulf von Euler Lecture Award, Karolinska Institutet
2004	MetLife Award in Alzheimer's Disease Research (shared with Roberto Malinow)
2004	Bristol-Myers Squibb Award for Distinguished Achievement in Neuroscience Research
2008	Bernhard Katz Award, Biophysical Society (shared with Reinhard Jahn)
2008	Passano Foundation Award
2010-2020	2 nd Merit Award, NIMH
2010	Kavli Prize in Neuroscience (shared with James Rothman and Richard Scheller)
2010	Albert Einstein Honorary Professorship, Chinese Academy of Sciences, Beijing
2013	Lasker~DeBakey Medical Basic Research Award (shared with Richard Scheller)
2013	Nobel Prize in Physiology or Medicine (shared with James Rothman and Randy Schekman)
2014	CINP Pioneer Award (shared with Solomon Snyder and Julien Mendlewicz)
2014	La Grande Médaille de la Ville de Paris (Échelon Vermeil; shared with James Rothman and Randy Schekman)
2015	Honorary Doctorate of Philosophy, Kaohsiung Medical University, Taiwan
2016	Grosses Bundesverdienstkreuz mit Stern der Bundesrepublik Deutschland
2018	Pericles Prize, Pericles International Academy, Rome Italy
2020	Doppler Lecture Award and Honorary Doctorate of Philosophy, University of Miskolc, Hungary
2020	Sherrington Lecture Award, University of Oxford, UK

Learned Societies:

2002	Elected to the National Academy of Sciences of the U.S.A.
2007	Elected to the National Academy of Medicine
2010	Elected to the American Academy of Arts & Sciences
2014	Elected Foreign Member of the Norwegian Academy of Sciences
2015	Elected to the Deutsche Akademie der Naturforscher Leopoldina
2017	Elected Foreign Member of the Royal Society of London

Named Lectures and Keynote Addresses:

1996	7 th Nachshen Lecture, University of Maryland
1999	Berta V. Scharer Lecture, Albert Einstein University
2000	Presidential Lecture, Society for Neuroscience Meeting (San Diego)
2002	1 st Presidential Lecture, UTMB Galveston
2007	Rudin Lecturer, Columbia University
09-25-2008	Hermann Rahn Lecture, SUNY Buffalo
10-18-2009	Special Lecture, Society for Neuroscience Meeting (Chicago)
04-22-2010	Picower Lecture, MIT
07-25-2010	Keynote Lecture, Gordon Conference on 'Synaptic Transmission'
09-15-2010	Agranoff Lecture, U. of Michigan
04-05-2011	Methusalem Lecture, U. of Leuven/Belgium
04-27-2011	Bishop Lecture, Washington University
09-03-2011	Kynote Lecture, α -Synuclein Satellite Meeting on Naxos, Greece
09-20-2011	37 th Annual Andrew Mark Lippard Memorial Lecture, Columbia University
10-27-2011	Elite Lecture, Chinese Academy of Sciences, Shanghai
08-05-2012	Keynote Lecture, Gordon Conference on 'Neurobiology of Brain Disorders'
09-25-2012	Swamerdam Lecture, University of Amsterdam
11-27-2012	Zach Hall Lecture, University of Southern California
12-13-2012	Bass Lecture, Vanderbilt University
03-26-2013	Dorris Lecturer, Scripps Research Institute
06-09-2013	Keynote Lecture, Gordon Conference on 'Excitatory Synapses and Brain Function'
08-05-2013	Keynote Lecture, Conte Center of Harvard University Retreat
10-24-2013	Charlton Lecture, Tufts University, Boston
03-04-2014	Lasker Lecture, University of Southern California
03-28-2014	Keynote Lecture, Synaptic Microcircuits Conference Bonn

04-13-2014 Chancellor's Lecture, Louisiana State University, New Orleans
 05-20-2014 George Palade Lecture, UC San Diego
 06-25-2014 Keynote Lecture, Gordon Conference on 'Cell Biology of the Neuron'
 07-02-2014 Keynote Lecture, Gordon Conference on 'Molecular and Cellular Neurobiology'
 07-29-2014 Keynote Lecture, Gordon Conference on 'Neurobiology of Brain Disorders'
 08-15-2014 Keynote Lecture, Cracking-the-Neural Code Conference, Stanford University
 02-10-2015 Keynote Lecture, Photonics Conference, San Francisco
 03-03-2015 Richard Havel Lecture, The 2015 Deuel Conference
 05-12-2015 Keynote Lecture, Conference "From Neural Circuitry to Neurotechnology", Tokyo
 06-09-2015 Gregor Mendel Lecture, ESHG Conference Glasgow
 06-12-2015 Rita Levi-Montalcini Lecture, European Brain Institute, Rome
 06-13-2015 Keynote Lecture, ENI Neuroscience Meeting Goettingen
 06-15-2015 Keynote Lecture, EMBO Neurodegeneration Meeting, Heidelberg
 07-30-2015 Keynote Lecture, Japanese Neuroscience Meeting, Kobe
 09-01-2015 Keynote Lecture, Dublin Neuroscience Meeting, Ireland
 09-21-2015 CNS Leica Lecture, Wuzhen, China
 10-18-2015 Presidential Lecturer, Society for Neuroscience Meeting, Chicago
 12-16-2015 IBIS Distinguished Investigator Lecture, Seville, Spain
 01-26-2016 Blaffer Lecture, M.D. Anderson Cancer Center, Houston
 01-27-2016 Tushar K. Chowdury Memorial Lecture, U. of Oklahoma, Oklahoma City
 02-22-2016 Honors Lecture, New York University
 02-23-2016 Pritchett Lecture, U. of Pennsylvania, Philadelphia
 04-08-2016 Keynote Lecture, Calcium Signaling Meeting, Honolulu
 04-14-2016 Gould Lecture, Rutgers University
 06-13-2016 Keynote Lecture, Gordon Conference on 'Molecular and Cellular Neurobiology'
 08-07-2016 Keynote Lecture, Gordon Conference on 'Neurobiology of Brain Disorders'
 09-09-2016 Munck-Pfefferkorn Prize Lecture, Geisel School of Medicine, Dartmouth University
 10-18-2016 Robert Beamish Leadership Award, Institute of Cardiovascular Sciences, U. of Manitoba
 10-20-2016 Hans Neurath Lecture, University of Washington
 02-08-2017 David Smith Lecture, University of Oxford, UK
 02-09-2017 César Milstein Lecture, MRC Laboratory of Molecular Biology, UK
 02-13-2017 Keynote Address, Sunposium, Max-Planck-Institute Florida, Fort Lauderdale
 03-01-2017 Waelsch Lecture Award, Columbia University, New York City
 03-12-2017 Keynote Lecture, GRC on IGF and Insulin in Physiology and Disease, Ventura CA
 03-14-2017 Cobb Lecture, U. of British Columbia, Canada
 03-28-2017 Keynote Lecture, 19th Sölden Neuroscience meeting
 03-30-2017 Plenary Lecture, ADPD Conference Vienna
 04-05-2017 Chi-Bin Chien Memorial Lecture, University of Utah at Salt Lake City
 04-21-2017 Commencement Address, Stevenson School
 09-21-2017 Plenary Lecture, FENS Meeting Pecs
 12-19-2017 Plenary Lecture, Autism Conference of Peking University, Beijing
 01-31-2018 WALSL Lecture, National Institutes of Health, Washington DC
 04-10-2018 Plenary Lecture, Brain Initiative Conference, Washington DC
 04-18-2018 Rubenstein Lecture, Stanford University School of Medicine
 06-24-2018 Keynote Lecture, Gordon Conference on 'Cell Biology of the Neuron'
 07-29-2018 Keynote Lecture, Guangzhou SCI/Neuroregeneration Conference
 10-02-2018 Gail Gasser Lecture, U. of Pennsylvania Perelman School of Medicine
 10-03-2018 Lefler Lecture, Harvard Medical School
 10-04-2018 Keynote Lecture, Symposium on Epigenetic Control and Cellular Plasticity, UC Irvine
 10-12-2018 Maurice Albin Keynote Lecture, 46th Annual SNACC Meeting, San Francisco
 12-17-2018 Staudinger Lecture, University of Freiburg, Germany
 03-25-2019 Plenary Lecture, Inaugural Neuroscience Symposium, Capital Medical Univ. Beijing, China
 03-29-2019 Plenary Lecture, AD/PD Conference Lisbon, Portugal
 04-23-2019 Plenary Lecture, Synaptic Transmission Symposium, NUM Mexico City, Mexico
 06-05-2019 Inaugural Konrad Akert Memorial Lecture, University of Zürich, Switzerland
 07-21-2019 Keynote Lecture, GRC on Endocannabinoids, Barcelona, Spain
 09-17-2019 Keynote Lecture, Synapse Conference, Göttingen, Germany

09-23-2019 Keynote Lecture, Guangzhou Neuroscience Meeting, China
 10-03-2019 Flexner Discovery Lecture, Vanderbilt University
 11-08-2019 Keynote Lecture, 7th Chinese Nucleic Acid Forum, Guangzhou, China
 05-15-2020 Connell Lecture, U. of Michigan (canceled due to Corona Virus lockdown)
 06-20-2020 Keynote Lecture, Keystone Neurodegeneration meeting (canceled due to Corona Virus lockdown)

Professional Service/University Advisory Boards:

1994 Member of the NIMH Evaluation Panel on Neuroscience
 1995-present Editorial Board, *Neuron*
 1995-2006 Editorial Board, *Journal of Biological Chemistry*
 1995 Co-Organizer (with R. Malenka), Neuropharmacology Symposium on "Presynaptic Mechanisms of Neurotransmission", San Diego CA
 1995-1998 Member, Cellular and Developmental Neurobiology Study Section, NIMH Program
 1998-2003 Member, Molecular and Cellular Developmental Neuroscience 1 Study Section
 1996 Co-Chair (with R. H. Scheller), Gordon Conference on the Cell Biology of the Neuron, June 16-21, 1996 in Plymouth, NH
 1996-2003 Associate Member, Neurosciences Research Program, San Diego, CA
 1997-2001 Receiving Editor, *European Journal of Neuroscience*
 1999 Organizer (with R. H. Scheller), Keystone Symposium "*Molecular Physiology and Pathology of Membrane Traffic*", Santa Fe, NM
 1999 Co-Organizer (with W.M. Cowan and C.F. Stevens), HHMI Workshop on "Synapses"
 2000-present Editorial Board, *Neuroscience*
 2000-2001 Co-Editor, *European Journal of Cell Biology*
 2000-present Editorial Board, *Journal of Molecular Neuroscience*
 2001-present Editorial Board, *European Journal of Neuroscience*
 2004-2009 Editorial Board, *Journal of Neuroscience*
 2005 Co-Organizer (with R. Fernández-Chacón and A.S Konnerth), UNIA Workshop Current Trends in Biomedicine "Imaging synapses: from individual molecules to brain circuits", Baeza, Spain
 2006-2016 Editorial Board, *Proc. Natl. Acad. Sciences U.S.A.*
 2007-2011 Co-Organizer (with H. Cline and R. Huganir), CSHL meeting "Synapses: From Molecules to Circuits & Behavior"
 2008 Chair, Neurobiology of Disease Gordon Conference, Oxford UK
 2008-2013 Member, Cellular and Molecular Biology of Neurodegeneration Study Section (CMND)
 2010-2014 Gallo Clinic and Research Center, UCSF, San Francisco, CA
 2012-present Picower Center at MIT, Cambridge, MA
 2013 Co-Organizer (with D.J. Surmeier), Neuropharmacology Symposium on "Synaptic Basis of Neurodegenerative Disorders", San Diego CA
 2013-2017 Chinese Academy Institute of Biophysics, Beijing, China
 2013-2017 Stanford Neuroscience Graduate Program Committee
 2013-present Shemyakin-Ovchinnikov Institute for Bioorganic Chemistry, Moscow, Russia
 2014-present Scientific Advisory Board, Berlin Institutes of Health, Berlin, Germany
 2014-present Chair of the Scientific Advisory Board, Science Matters
 2014-2015 Peking University, Beijing, China
 2014-2017 Scientific Advisory Board, Singapore National Research Foundation
 2014-2018 IMCB Scientific Advisory Board, A*Star, Singapore
 2016-present Chair, Scientific Advisory Board, *Matters*
 2017-2019 Scientific Advisory Board, Beihang University, Beijing, China
 2017 Co-Organizer, "From Molecules to Circuits Workshop", Baeza, Spain
 2017-present Editorial Board, PLOS Biology
 2018-present Scientific Advisory Board, Capital Medical University, Beijing, China
 2018-present Scientific Advisory Board, Chinese Academy of Sciences Institute, Guangzhou, China
 2018-present Scientific Advisory Board, Chinese Brain Initiative (North)
 2019-present Scientific Advisory Board, Dept. of Neuroscience, Institut Pasteur, Paris
 2020 Chair, Muscle & Axon Health Workshop, New Orleans

Scientific Advisory Boards and Consultancies of Companies:

2002-present	Co-Founder and Scientific Advisory Board, REATA Pharmaceuticals, Inc., Dallas, TX
2008-2010	Pfizer Neuroscience Review Board,
2011-2019	Co-Founder and Scientific Advisory Board, Circuit Therapeutics Inc., Menlo Park, CA
2013-2016	Genentech Neuroscience Review Board, South San Francisco, CA
2014-2017	Co-Founder and Scientific Advisory Board, Bluenobel Inc., Wuxi, China
2014-present	Scientific Advisory Board, Elysium Inc.
2016-present	Scientific Advisory Board, Simcere Therapeutics
2016-present	Nonexecutive Member, Board of Directors, Sanofi Inc., and Chair of the Scientific Committee (since 2018)
2016-2018	Co-Founder and Scientific Advisory Board, NeuCyte Inc.
2017-2018	Scientific Advisory Board, Abide Therapeutics
2017-2020	Scientific Advisory Board, Everest Medical
2017-present	Scientific Advisory Board, Jupiter Therapeutics
2018-2019	Board of Directors, Abide Therapeutics
2018-present	Scientific Advisory Board, Alector LLC, and co-chair (with Richard Scheller) of the Strategy Portfolio and Review Committee (since 2020)
2019-present	Scientific Advisory Board, Camden/Catalia Partners
2020-present	Co-Founder and Scientific Advisory Board, Boost Neurosciences

Recent University Service and Teaching Activities:

2014-present	Annual Core Course Module “Molecular Neuroscience” (course director)
2017-2018	Chair, Search Committee of the Stanford Neuroscience Institute for a junior faculty member in molecular/cellular neuroscience
2017-present	Annual Course on Responsible Conduct of Research (contributor)
2018-2019	Chair, Search Committee of the Center for Molecular Neuroscience/Dept. of Molecular and Cellular Physiology and Dept. of Neurobiology at Stanford for two junior faculty positions in molecular/cellular neuroscience

Thesis committees at Stanford (asterisks indicate lab members):

Bing Wu (Biology, L. Luo lab; graduated 2017); Abdul Rasheed Alabi (MD.PhD., R. Tsien lab; graduated 2017); Casey Guenther (Neuroscience; L. Luo lab; graduated 2016); Nic Berns (Neuroscience; L. Luo lab; graduated 2017); Kateryna Kozyrytska* (Neuroscience; graduated with an M.S. 2016); W. Dylan Hale* (MCP, graduated 2018); Erica Seigneur* (Neuroscience, graduated 2018); Andrew Shuster (Neuroscience, L. Luo lab); Mazen Asaad (MCP; J.H. Lee lab); Rebecca Shi (Neuroscience; K. Shen lab); Beatriz Robinson (Neuroscience; J. Kaltschmidt lab); Geoffrey Stanley (Biophysics; S. Quake lab); Anna Khalaj* (Neuroscience); Roger Zhang* (MCP); Samantha Golf* (Neuroscience); Sofia Essayan-Perez* (MD-PhD); Cosmos Wang* (Neuroscience); Konstantin Kaganovsky* (Neuroscience; jointly with Jun Ding); Steven Wilson* (MCP, shared with Axel Brunger); Chuanyun Xu (Biology, L. Luo lab).

Patents:

1990	<i>Sterol Regulatory Elements</i> , issued to M.S. Brown, J. L. Goldstein, D.W. Russell, and T.C. Südhof (Patent Number 4,935,363)
2003	<i>Methods for identifying agents that affect cleavage of amyloid-β precursor protein</i> , issued to X. Cao and T.C. Südhof (Patent Number 6,649,346)
2006	<i>Methods for modulating transcriptional activation using MINT proteins</i> , issued to T. Biederer, A. Ho, X. Liu, and T.C. Südhof (Patent Number 7,081,337)
2008	<i>Cysteine string protein and its role in neurodegenerative diseases</i> . T. Südhof, B. Stahl, and S. Tobaben (Patent Number 7,445,904 B2)
2015/17	<i>Direct Conversion of Cells to Cells of Other Lineages</i> , issued to M. Wernig, T. Vierbuchen, Z. Pang, and T.C. Südhof (Patent Number 9,057,053 and 9,822,338)

ARTICLES IN PEER-REVIEWED JOURNALS

1. Südhof, T.C. (1982) *Core structure, internal osmotic pressure and irreversible structural changes of chromaffin granules during osmometer behavior.* Biochim. Biophys. Acta **689**, 27-39.
2. Morris, S.J., Südhof, T.C., and Haynes, D.H. (1982) *Lipid and Protein interactions in Ca^{2+} - promoted aggregation and fusion of chromaffin granule membranes.* Biophys. J. **37**, 117-118.
3. Südhof, T.C., Walker, J.H., and Obrocki, J. (1983) *Catelectrin self-aggregates and promotes membrane aggregation in the presence of Ca^{2+} .* EMBO J. **1**, 1167-1170.
4. Morris, S.J., Südhof, T.C., and Haynes, D.H. (1983) *Ca^{2+} -promoted resonance energy transfer between fluo-rescently labeled proteins during aggregation of chromaffin granule membranes.* Biochim. Biophys. Acta **693**, 425-436.
5. Morris, S.J., Costello, M.J., Robertson, J.D., Südhof, T.C., Odenwald, W.F., and Haynes, D.H. (1983) *Chromaffin granules as a model for membrane fusion: implications for exocytosis.* J. Autonom. Nerv. Syst. **7**, 19-33.
6. Südhof, T.C., Zimmermann, C.W., and Walker, J.H. (1983) *Catelectrin in human blood cells.* Eur. J. Cell Biol. **30**, 214-218.
7. Südhof, T.C., and Morris, S.J. (1983) *Characteristics and determinants of osmotic lysis in chromaffin granules.* Biochim. Biophys. Acta **730**, 207-216.
8. Südhof, T.C., and Morris, S.J. (1983) *Temperature-induced lysis of chromaffin granules provides evidence against the two-pool hypothesis of catecholamine storage.* Biochim. Biophys. Acta **757**, 176-181.
9. Walker, J.H., Obrocki, J., and Südhof, T.C. (1983) *Catelectrin, a "calcium dependent membrane binding protein" associated with secretory granules in Torpedo cholinergic motor nerve endings and rat adrenal medulla.* J. Neurochem. **41**, 139-145.
10. Südhof, T.C. (1983) *Evidence for a divalent cation dependent catecholamine storage complex in chromaffin granules.* Biochem. Biophys. Res. Comm. **116**, 663-668.
11. Südhof, T.C., Ebbecke, G., Walker, J.H., Fritsche, U., and Boustead, C. (1984) *Isolation of mammalian catelectrins: A new family of ubiquitous Ca^{2+} regulated proteins.* Biochemistry **23**, 1103-1109.
12. Südhof, T.C. (1984) *Catelectrins are a ubiquitous family of Ca^{2+} -binding proteins purified by Ca^{2+} -dependent hydrophobic affinity chromatography by a mechanism distinct from that of calmodulin.* Biochem. Biophys. Res. Comm. **123**, 100-107.
13. Geisow, M., Childs, J., Dash, B., Harris, A., Panayotous, G., Südhof, T.C., and Walker, J.H. (1984) *Cellular distribution of three mammalian Ca^{2+} -binding proteins related to Torpedo catelectrin.* EMBO J. **3**, 2969-2974.
14. Südhof, T.C., Walker, J.H., and Fritsche, U. (1985) *Characterization of Torpedo catelectrins, a new Ca^{2+} -binding protein.* J. Neurochem. **44**, 1302-1307.
15. Lehrman, M.A., Schneider, W.J., Südhof, T.C., Brown, M.S., Goldstein, J. L., and Russell, D.W. (1985) *LDL receptor mutation: Alu-alu recombination deletes exons encoding transmembrane and cytoplasmic domains.* Science **227**, 140-146.
16. Südhof, T.C., Goldstein, J.L., Brown, M.S., and Russell, D.W. (1985) *The LDL receptor gene: A mosaic of exons shared with different proteins.* Science **228**, 815-822.

17. Südhof, T.C., Russell, D.W., Brown, M.S., Goldstein, J.L., Sanchez-Pescador, R., and Bell, G.T. (1985) *Cassette of eight exons shared by genes for LDL receptor and EGF precursor*. Science **228**, 893-895.
18. Silva, F.G., Sherrill, K., Spurgeon, S., Südhof, T.C., and Stone, D.K. (1986) *High-level expression of the 32.5-kilodalton calelectrin in ductal epithelia as revealed by immunocytochemistry*. Differentiation **33**, 175-183.
19. Ma, P.T.S., Gil, G., Südhof, T.C., Bilheimer, D.W., Goldstein, J.L., and Brown, M.S. (1986) *Mevinolin, an inhibitor of cholesterol synthesis, induces mRNA for low density lipoprotein receptor in livers of hamsters and rabbits*. Proc. Natl. Acad. Sci. U.S.A. **83**, 8370-8374.
20. Südhof, T.C., Russell, D.W., Brown, M.S., and Goldstein, J.L. (1987) *42-bp element from LDL receptor gene confers end-product repression by sterols when inserted into viral TK promoter*. Cell **48**, 1061-1069.
21. Davis, C.G., Goldstein, J.L., Südhof, T.C., Anderson, R.G.W., Russell, D.W., and Brown, M.S. (1987) *Acid-dependent ligand dissociation and recycling of LDL receptor mediated by growth factor homology region*. Nature **326**, 760-764.
22. Südhof, T.C., Van Der Westhuyzen, D.R., Goldstein, J.L., Brown, M.S., Russell, D.W. (1987) *Three direct repeats and a TATA-like sequence are required for regulated expression of the human LDL receptor gene*. J. Biol. Chem. **262**, 10773-10779.
23. Südhof, T.C., Lottspeich, F., Greengard, P., Mehl, E., and Jahn, R. (1987) *Synaptophysin: A synaptic vesicle protein with four transmembrane regions and a novel cytoplasmic domain*. Science **238**, 1142-1144.
24. Südhof, T.C., Lottspeich, F., Greengard, P., Mehl, E., and Jahn, R. (1987) *The cDNA and derived amino acid sequences for rat and human synaptophysin*. Nucleic Acids Res. **15**, 9607-9625.
25. van Driel, I.R., Goldstein, J.L., Südhof, T.C., and Brown, M.S. (1987) *First cysteine-rich repeat in ligand-binding domain of low density lipoprotein receptor binds Ca^{2+} and monoclonal antibodies, but not lipoproteins*. J. Biol. Chem. **262**, 17443-17449.
26. Dawson, P.A., Hofmann, S.L., Van Der Westhuyzen, D.R., Südhof, T.C., Brown, M.S., and Goldstein, J.L. (1988) *Sterol-dependent repression of low density lipoprotein receptor promoter mediated by 16-base pair sequence adjacent to binding site for transcription factor SP1*. J. Biol. Chem. **263**, 3372-3379.
27. Südhof, T.C., Slaughter, C.A., Leznicki, I., Barjon, P., and Reynolds, G.A. (1988) *Human 67-kDa calelectrin contains a duplication of four repeats found in 35-kDa lipocortins*. Proc. Natl. Acad. Sci. U.S.A. **85**, 664-668.
28. Hom, Y.K., Südhof, T. C., Lozano, J.J., Haindl, A.H., and Rocha, V. (1988) *Mammary gland Ca^{2+} -binding proteins: Identification as calelectrins and calpactin I/p36*. J. Cell Physiol. **135**, 435-442.
29. Perin, M.S., Fried, V.A., Slaughter, C.A., and Südhof, T.C. (1988) *The structure of cytochrome b561, a secretory vesicle-specific electron transport protein*. EMBO J. **7**, 2697-2703.
30. Johnston, P.A., Jahn, R., and Südhof, T.C. (1989) *Transmembrane topography and evolutionary conservation of synaptophysin*. J. Biol. Chem. **264**, 1268-1273.
31. Südhof, T.C., Baumert, M., Perin, M.S., and Jahn, R. (1989) *A synaptic vesicle membrane protein is conserved from mammals to Drosophila*. Neuron **2**, 1475-1481.
32. Südhof, T.C., Czernik, A.J., Kao, H., Takei, K., Johnston, P.A., Horiuchi, A., Wagner, M., Kanazir, S.D., Perin, M.S., DeCamilli, P., and Greengard, P. (1989) *Synapsins: mosaics of*

- shared and individual domains in a family of synaptic vesicle phosphoproteins. Science* **245**, 1474-1480.
33. Johnston, P.A., Cameron, P.L., Stukenbrok, H., Jahn, R., De Camilli, P., and Südhof, T.C. (1989) *Synaptophysin is targeted to similar microvesicles in CHO- and PC12-cells. EMBO J.* **8**, 2863-2872.
 34. Südhof, T.C., Fried, V.A., Stone, D.K., Johnston, P.A., and Xie, X.-S. (1989) *Human endomembrane H⁺-pump strongly resembles the ATP-synthetase of archaeobacteria. Proc. Natl. Acad. Sci. U.S.A.* **86**, 6067-6071.
 35. Mignery, G.A., Südhof, T.C., Takei, K., and De Camilli, P. (1989) *Putative receptor for inositol 1,4,5-trisphosphate similar to ryanodine receptor. Nature* **342**, 192-195.
 36. von Mollard, G., Mignery, G.A., Baumert, M., Perin, M.S., Hanson, T.J., Burger, P.M., Jahn, R., and Südhof, T.C. (1990) *Rab3 is a small GTP-binding protein exclusively localized to synaptic vesicles. Proc. Natl. Acad. Sci. U.S.A.* **87**, 1988-1992.
 37. Südhof, T.C. (1990) *The structure of the human synapsin I gene and protein. J. Biol. Chem.* **265**, 7849-7852.
 38. Johnston, P.A., and Südhof, T.C. (1990) *The multisubunit structure of synaptophysin. Relationship between disulfide bonding and homo-oligomerization. J. Biol. Chem.* **265**, 8869-8873.
 39. Perin, M.S., Fried, V.A., Mignery, G.A., Jahn, R., and Südhof, T.C. (1990) *Phospholipid binding by a synaptic vesicle protein homologous to the regulatory region of protein kinase C. Nature* **345**, 260-263.
 40. DeCamilli, P., Takei, K., Mignery, G.A., and Südhof, T.C. (1990) *InsP₃-receptor turnaround. Nature (Correspondence)* **344**, 495.
 41. Mignery, G.A., Newton, C.L., Archer, B.T., and Südhof, T.C. (1990) *Structure and expression of the rat inositol-1,4,5-trisphosphate receptor. J. Biol. Chem.* **265**, 12679-12685.
 42. Johnston, P.A., Perin, M.S., Reynolds, G.A., Wasserman, S.A., and Südhof, T.C. (1990) *Two novel annexins from Drosophila melanogaster. Cloning, characterization and differential expression in development. J. Biol. Chem.* **265**, 11382-11388.
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