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### Education

1985 BSc in Biochemistry and Chemistry, University of Toronto  
1991 PhD in Biochemistry, Stanford University

### Research and Professional Experience

1991 - 1997 Postdoctoral Fellow, The Salk Institute  
1997 - 2002 Assistant Professor, Division of Biology, University of California San Diego  
2002 - 2011 Senior Group Leader, MRC Cell Biology Unit, University College London  
2011 - 2018 Senior Team Leader, RIKEN Brain Science Institute  
2014 - present Adjunct Professor, Department of Life Sciences, Graduate School of Arts and Sciences, University of Tokyo  
2014 - present Adjunct Professor, Saitama University Brain Science Institute  
2015 - 2017 Deputy Director, RIKEN Brain Science Institute  
2017 - 2018 Acting Director, RIKEN Brain Science Institute  
2018 - present Team Leader, RIKEN Center for Brain Science  
2018 - present Deputy Director, RIKEN Center for Brain Science

### Awards and Honors

University of Toronto Open Admission Scholarship (1981-1985)  
Sarah Cusick Gollop and William George Gollop Memorial Scholarship in Chemistry (1982-1985)  
The Governor General's Medal, University of Toronto (1985)  
Damon Runyon-Walter Winchell Cancer Research Fund, Postdoctoral fellow (1991-1994)  
National Alliance for Research on Schizophrenia and Depression, Young Investigator Award (1994-1996)  
Sloan Research Fellow (1998-2000)  
National Alliance for Research on Schizophrenia and Depression, Daniel X. Freedman Award (1998)  
Damon Runyon Scholar Award (1999-2000)  
Rita Allen Foundation Scholar (2000-2003)  
Klingenstein Fellowship in the Neurosciences (2001-2003)  
National Alliance for Research on Schizophrenia and Depression, Distinguished Investigator Award (2003)  
Honorary Professor of the Department of Neuroscience, Physiology and Pharmacology, UCL (2010)  
Tsukahara Nakaakira Award, The Brain Science Foundation (2013)  
Science Council of Japan, Member (2014-2020)

## Publications

- Bunting JW, Chew VSF, Abhyankar SB, Goda Y. (1984) Pseudobase formation from 9-substituted 10-methylacridinium cations in aqueous solution. *Can J Chem.* 62, 351-354.
- Goda Y, Greenblatt J. (1985) Efficient modification of *E. coli* RNA polymerase *in vitro* by the *N* gene transcription antitermination protein of bacteriophage  $\lambda$ . *Nucl Acids Res.* 13, 2569-2582.
- Goda Y, Pfeffer SR. (1988) Selective Recycling of the mannose 6-phosphate/IGF-II receptor to the *trans* Golgi network *in vitro*. *Cell* 55, 309-320.
- Goda Y, Pfeffer SR. (1989) Cell-free systems to study vesicular transport along the secretory and endocytic pathways. *FASEB J.* 3, 2488-2495.
- Draper RK, Goda Y, Brodsky FM, Pfeffer SR. (1990) Antibodies to clathrin inhibit endocytosis but not receptor recycling to the *trans* Golgi network *in vitro*. *Science* 248, 1539-1541.
- Goda Y, Pfeffer SR. (1991) Identification of a novel, *N*-ethylmaleimide-sensitive cytosolic factor required for vesicular transport from endosomes to the *trans* Golgi network *in vitro*. *J Cell Biol.* 112, 823-831.
- Goda Y, Soldati T, Pfeffer SR. (1992) Transport from late endosomes to *trans* Golgi network in semiintact cell extracts. *Methods in Enzymol.* 219, 153-159.
- Lombardi D, Soldati T, Riederer MA, Goda Y, Zerial M, Pfeffer SR. (1993) Rab9 functions in transport between late endosomes and the *trans* Golgi network. *EMBO J.* 12, 677-682.
- Abeliovich A, Chen C, Goda Y, Silva AJ, Stevens CF, Tonegawa S.\* (1993) Modified hippocampal long-term potentiation in PKC $\gamma$ -mutant mice. *Cell* 75, 1253-1262.
- \*The authors are listed alphabetically.
- Goda Y. (1994) Long-term potentiation: In pursuit of a retrograde messenger. *Curr Biol.* 4, 148-150.
- Geppert M, Goda Y, Hammer ER, Li C, Rosahl TW, Stevens CF, Südhof TC.\* (1994) Synaptotagmin I: A major Ca<sup>2+</sup>-sensor for transmitter release at a central synapse. *Cell* 79, 717-727.
- \*The first two authors contributed equally to this work.
- Goda Y, Stevens CF. (1994) Two components of transmitter release at a central synapse. *Proc Natl Acad Sci USA* 91, 12942-12946.
- Goda Y. (1995) A common cascade for long-term memory. *Curr Biol.* 5, 136-138. Goda Y. (1995) Photographic memory in flies. *Curr Biol.* 5, 852-853.
- Tonegawa S, Li Y, Erzurumlu RS, Jhaveri S, Chen C, Goda Y, Paylor R, Silva AJ, Kim JJ, Wehner JM, Stevens CF, Abeliovich A. (1995) The gene knockout technology for the analysis of learning and memory, and neural development. *Prog Brain Res.* 105, 3-14.
- Goda Y, Stevens CF. (1996) Long-term depression properties in a simple system. *Neuron* 16, 103-111.
- Goda Y, Stevens CF. (1996) The basis for particular types of learning. *Curr Biol.* 6, 375-378.
- Goda Y, Stevens CF, Tonegawa S. (1996) Phorbol ester effects at hippocampal synapses act independently of the  $\gamma$  isoform of PKC. *Learning Memory* 3, 182-187.
- Goda Y. (1996) Probing presynaptic mechanisms of synaptic plasticity. In Gene Targeting and New Developments in Neurobiology, S Nakanishi, AJ Silva, M Katsuki, eds. (Tokyo: Japan Scientific Societies Press), pp. 49-59.
- Goda Y. (1997) SNAREs and regulated vesicle exocytosis. *Proc Natl Acad Sci USA* 94, 769-772.
- Geppert M, Goda Y, Stevens CF, Südhof TC.\* (1997) The small GTP-binding protein Rab3A regulates a late step in synaptic vesicle fusion. *Nature* 387, 810-814.
- \*The authors are listed alphabetically. Y.G. is the corresponding author.
- Goda Y, Südhof TC. (1997) Ca<sup>2+</sup>-regulation of neurotransmitter release: reliably unreliable? *Curr Opin Cell Biol.* 9, 513-518.
- Geppert M, Khvotchev M, Krasnoperov V, Goda Y, Missler M, Hammer RE, Ichtchenko K, Petrenko AG, Südhof TC. (1998) Neurexin Ia as an  $\alpha$ -latrotoxin receptor. *J Biol Chem* 273, 1705-1710.
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- Hagler DJ, Goda Y. (1998) Synaptic adhesion: The building blocks of memory? *Neuron* 20, 1059-1062.
- Goda Y, Mutneja M. (1998) Memory mechanisms: The nociceptin connection. *Curr Biol* 8, 889-891.

- Morales M, Goda Y. (1999) Nomadic AMPA receptors and LTP. *Neuron* 23, 419-422.
- Janz R, Goda Y, Geppert M, Missler M, Südhof TC.\* (1999) SV2A and SV2B function as redundant  $Ca^{2+}$ -regulators in neurotransmitter release. *Neuron* 24, 1003-1016.
- \*The first three authors contributed equally to this work.
- Morales M, Colicos MA, Goda Y. (2000) Actin-dependent regulation of neurotransmitter release at central synapses. *Neuron* 27, 539-550.
- Hagler DJ, Goda Y. (2001) Properties of synchronous and asynchronous release during pulse train depression in cultured hippocampal neurons. *J Neurophysiol.* 85, 2324-2334.
- Colicos MA, Collins BE, Sailor MJ, Goda Y. (2001) Remodeling of synaptic actin induced by photoconductive stimulation. *Cell* 107, 605-616.
- Tarsa L, Goda Y. (2002) Synaptophysin regulates activity-dependent synapse formation in cultured hippocampal neurons. *Proc Natl Acad Sci USA* (track II) 99, 1012-1016.
- Goda Y. (2002) Cadherins communicate structural plasticity of presynaptic and postsynaptic terminals. *Neuron* 35, 1-7.
- Tokuoka H, Goda Y. (2003) Synaptotagmin in  $Ca^{2+}$ -dependent exocytosis: dynamic action in a flash. *Neuron* 38, 521-524.
- Goda Y, Davis GW. (2003) Mechanisms of synapse assembly and disassembly. *Neuron* 40, 243-264.
- Dillon C, Goda Y. (2005) The actin cytoskeleton: Integrating form and function at the synapse. *Annu Rev Neurosci* 28, 25-54.
- Darcy K, Staras K, Collinson L, Goda Y. (2006) Constitutive sharing of recycling synaptic vesicles between presynaptic boutons. *Nat Neurosci.* 9, 315-321.
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- Darcy K, Staras K, Collinson L, Goda Y. (2006) An ultrastructural readout of fluorescence recovery after photobleaching using correlative light and electron microscopy. *Nat Protocols* 1, 988-994.
- Tokuoka H, Goda Y. (2006) Myosin light chain kinase is not a regulator of synaptic vesicle trafficking during repetitive exocytosis in cultured hippocampal neurons. *J Neurosci* 26, 11606-11614.
- Okuda T, Yu LM, Cingolani LA, Kemler R, Goda Y. (2007)  $\beta$ -catenin regulates excitatory postsynaptic strength at hippocampal synapses. *Proc Natl Acad Sci USA* (direct submission) 104, 13479-13484.
- Cingolani LA, Goda Y. (2008) Actin in Action: The interplay of actin cytoskeleton and synaptic efficacy. *Nat Rev Neurosci* 9, 344-356.
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- Chater TE, Goda Y. (2013) CA3 Mossy Fiber Connections: Giant Synapses that Gain Control. *Neuron* 77, 4-6.
- Vitureira N, Goda Y (2013) The interplay between Hebbian and homeostatic synaptic plasticity. *J Cell Biol* 203, 175-186.
- Chater TE, Goda Y. (2014) The role of AMPA receptors in postsynaptic mechanisms of synaptic plasticity. *Front Cell Neurosci* 8,401.
- Shinoe T, Goda Y. (2015) Tuning synapses by proteolytic remodeling of the adhesive surface. *Curr Op Neurobiol* 35, 148-155.
- Letellier M, Park YK, Chater TE, Chipman PH, Gautam SG, Oshima-Takago T, Goda Y. (2016) Astrocytes regulate heterogeneity of presynaptic strengths in hippocampal networks. *Proc Natl Acad Sci USA* (direct submission) 113, E2685-2694.
- Chipman P, Goda Y. (2016) Adhesion molecules in synapse assembly and function. In *Dendrites: development and disease*, K Emoto, R Wong, E Huang, C Hoogenraad, ed. (Springer SBM).
- Park YK, Goda Y. Integrins in Synapse Regulation. (2016) *Nat Rev Neurosci* 17, 745-756.
- Thalhammer A, Contestabile A, Ermolyuk YS, Ng T, Volynski KE, Soong TW, Goda Y, Cingolani LA. (2017) Alternative splicing of P/Q-type Ca channels shapes presynaptic plasticity. *Cell Rep* 20, 333-343.