



新闻 | 高级搜索

- 首页 关于我们 综合服务 师资队伍 教育教学 科学研究 医疗服务 招生招聘 合作交流 学生工作 校友汇



- 师资队伍
人才队伍
教授及主任医师
研究生指导教师
新进教师
临床骨干教师

用户登录

当前位置：首页 >> 师资队伍

基本信息:



姓名：段树民
职务：院长
职称：教授
学历：博士
专业：神经生物学
所属院系：基础医学系
研究方向：神经生物学
电话：0571-88208001
信箱：duanshumin@zju.edu.cn
个人主页:

个人简介:

段树民院士，神经生物学家。

浙江大学医学院院长，教授。中国科学院院士，发展中国家科学院（第三世界科学院，TWAS）院士，全国政协委员，中国神经科学学会理事长，亚太神经科学学会主席。1982年毕业于蚌埠医学院，1991年在日本九州大学获博士学位。1997-1999年先后在夏威夷大学和加州大学旧金山分校做博士后研究。2000-2009年在中国科学院神经科学研究所先后任研究员、神经科学国家重点实验室主任、副所长。长期从事神经生物学研究，在神经元-胶质细胞相互作用、突触发育和功能等研究领域作出系统的创新工作，尤其在胶质细胞信号分子释放机制、胶质细胞对神经环路和突触可塑性的调控等方面取得重要研究成果。任《Neuroscience Bulletin》主编，《Journal of Neurophysiology》、《Glia》、《Hippocampus》、《Neurobiology of Disease》等国际神经科学杂志编委。2008年获何梁何利科学与进步奖，2010年获国家自然科学二等奖。

主要研究兴趣是突触形成和活动依赖性突触可塑性的机制，尤其对星状胶质细胞在突触形成和活动依赖性突触可塑性中的作用感兴趣，并研究胶质细胞释放活性物质的机理。

代表论文：

1.Han Y, Shi YF, Xi W, Zhou R, Tan ZB, Wang H, Li XM, Chen Z, Feng GP, Huang ZL, Duan*, and Yu YQ. Selective Activation of Cholinergic Basal Forebrain Neurons Induces Immediate Sleep wake Transitions, Current Biology 2014 (in press)
2.Wu HJ, Liu YJ, Li HQ, Chen C, Dou Y, Lou HF, Ho MS, Li XM, Gao Z, Duan S. Analysis of microglial migration by a micropipette assay. Nat Protoc. 2014, 9: 491-500.
3.Li HQ, Chen C, Dou Y, Wu HJ, Liu YJ, Lou HF, Zhang JM, Li XM, Wang H, Duan S*. P2Y4 receptor-mediated pinocytosis contributes to amyloid beta-induced self-uptake by microglia. Mol Cell Biol. 2013, 33: 4282-93.
4.Chen J, Tan Z, Zeng L, Zhang X, He Y, Gao W, Wu X, Li Y, Bu B, Wang W, Duan S*. Heterosynaptic long-term depression mediated by ATP released from astrocytes. Glia. 2013 , 61:178-191
5.Zhu B, Xu D, Deng X, Chen Q, Huang Y, Peng H, Li Y, Jia B, Thoreson WB, Ding W, Ding J, Zhao L, Wang Y, Wavrin KL, Duan S*, Zheng J*. CXCL12 enhances human neural progenitor cell survival through a CXCR7- and CXCR4-mediated endocytotic signaling pathway. Stem Cells. 2012, 30:2571-2583
6.Y Dou, HJ Wu, HQ Li, S Qin, HF Lou, QM Luo, Duan S*, Microglia Migration Mediated by ATP-Induced ATP Release from Lysosome, Cell Res, 2012 22:1022-1033
7.Li KX, Lu YM, Xu ZH, Zhang J, Zhu JM, Zhang JM, Cao SX, Chen XJ, Chen Z, Luo JH, Duan S, Li XM. Neuregulin 1 regulates excitability of fast-spiking neurons through Kv1.1 and acts in epilepsy. Nat

Neurosci. 2012; 15:267–273

8.Ji Y, Lu Y, Yang F, Shen W, Tang TT, Feng L, Duan S, Lu B, Acute and gradual increases in BDNF concentration elicit distinct signaling and functions in neurons. *Nat Neurosci.* 2010, 13:302-309

9.Song AH, Wang D, Chen G, Li Y, Luo J, Duan S*, Poo MM. A selective filter for cytoplasmic transport at the axon initial segment. *Cell.* 2009, 136:1148-1160.

10.Tong XP, Li XY, Zhou B, Shen WH, Zhang ZJ, Xu TL, Duan S* , Ca²⁺ signaling evoked by activation of Na⁺ channels and Na⁺/Ca²⁺ exchangers is required for GABA-induced NG2 cell migration, *J Cell Biol,* 2009, 186: 113-128

11.Li H, Chen G, Zhou B, Duan S*. Actin Filament Assembly by MARCKS- PI(4,5)P₂ Signaling Is Critical for Dendrite Branching. *Mol Biol Cell.* 2008, 19: 4804-4813

12.Z-J Zhang, G Chen, W Zhou, A-H Song, W Wang, T Xu, Q-M Luo, X-S Gu, Duan S*, Regulated ATP release from astrocytes via lysosome exocytosis. *Nature Cell Biol* 2007, 9: 945-953.

13.Ge WP, Duan S*. Persistent Enhancement of Neuron-Glia Signaling Mediated by Increased Extracellular K⁺ Accompanying Long-Term Synaptic Potentiation. *J Neurophysiol.* 2007, 97: 2564-2569

14.Chen G, Li HM, Chen YR, Gu XS, Duan S*. Decreased estradiol release from astrocytes contributes to the neurodegeneration in a mouse model of Niemann-Pick disease type C. *Glia* 2007; 55:1509-1518.

15.Zhang X, Xu R, Zhu B, Yang X, Ding X, Duan S, Xu T, Zhuang Y, Han M. Syne-1 and Syne-2 play crucial roles in myonuclear anchorage and motor neuron innervation. *Development.* 2007, 134:901-908.

16.Wang, C., Zhang, L., Zhou, Y., Zhou, J., Yang, X., Duan, S., Xiong, Z., Ding, Y. (2007) Activity-dependent development of callosal projections in the somatosensory cortex. *J. Neurosci.* 27: 11334-11342

17.Ge WP, Yang XJ, Zhang ZJ, Wang HK, Deng QD, Duan S* Long-Term Potentiation of Neuron-Glia Synapses Mediated by Ca²⁺-Permeable AMPA Receptors *Science,* 2006 , 312, 1533-1537

18.Shen W, Wu B, Zhang Z, Dou Y, Rao ZR, Chen YR, Duan S*. Activity-induced rapid synaptic maturation mediated by presynaptic cdc42 signaling. *Neuron,* 2006, 50: 401-414 (Cover)

Comment : Atasoy and Kavalali , Presynaptic Unsilencing: Searching for a Mechanism. *Neuron,* 2006, 50:345-346

19.Duan S*, Neary J, P2X₇/P2Z receptors: properties and relevance to CNS functions (Invited review). *Glia,* 2006, 54:738-746.

20.Lu W, Zheng BJ, Xu K, Schwarz W, Du L, Wong CK, Chen J, Duan S, Deubel V, Sun B. Severe acute respiratory syndrome-associated coronavirus 3a protein forms an ion channel and modulates virus release. *PNAS,* 2006, 103:12540-12545

21.Jin W, Ge WP, Xu J, Cao M, Peng L, Yung W, Liao D, Duan S, Zhang M, Xia J. Lipid binding regulates synaptic targeting of PICK1, AMPA receptor trafficking, and synaptic plasticity. *J Neurosci.* 2006 Mar 1;26(9):2380-90.

22.Xu X, Fu AK, Ip FC, Wu CP, Duan S, Poo MM, Yuan XB, Ip NY. Agrin regulates growth cone turning of *Xenopus* spinal motoneurons. *Development.* 132:4309-4316. (2005)

23.Pan, P., Cai, Q., Lin, L., Lu, P., Duan S*, and Sheng, Z. SNAP-29-mediated Modulation of Synaptic Transmission in Cultured Hippocampal Neurons. *J. Biol.Chem.* 280: 25769-25779 (2005)

24.Xu, H., Yuan, X., Guan, C., Duan, S., Wu, C., and Feng, L. Calcium signaling in chemorepellant Slit2-dependent regulation of neuronal migration. *PNAS,* 101, 4296-4301 (2004)

25.Li, C., Wu, CP., Duan S*, and Poo, M. Bidirectional Modification of Presynaptic Neuronal Excitability Accompanying Spike Timing-Dependent Synaptic Plasticity. *Neuron ,* 41, 257–268 (2004)

26.Zhang, J. Wang, H., Ye, C., Ge, W., Chen, Y., Wu, CP., Poo, M., and Duan, S. ATP Released by Astrocytes Mediates Glutamatergic Activity-Dependent Heterosynaptic Suppression. *Neuron,* 40, 971-982 (2003)

Comment : O Pascual and PG. Haydon, Synaptic Inhibition Mediated by Glia. *Neuron,* 40, 873-875 (2003)

27.Yang, Y., Ge, W., Chen, Y., Wu, CP., Poo, M., and Duan, S*. Contribution of astrocytes to hippocampal long-term potentiation through release of D-serine. *PNAS,* 100, 15194 – 15199 (2003)

28.Wang B, Xiao Y, Ding BB, Zhang N, Yuan X, Gui L, Qian KX, Duan S, Chen Z, Rao Y, Geng JG. Induction of tumor angiogenesis by Slit-Robo signaling and inhibition of cancer growth by blocking Robo activity. *Cancer Cell.* 4:19-29 (2003) .

29.Wang, Z., Xu, N., Wu,CP., Duan S* , and Poo, M. Bidirectional Changes in Spatial Dendritic Integration Accompanying Long-Term Synaptic Modifications. *Neuron,* 37: 463-472 (2003)

30.Yuan X, Jin, M., Xu, X., Wu, CP., Poo, M., and Duan, S*. Signalling and crosstalk of Rho GTPases in mediating axon guidance. *Nature Cell Biol,* 5, 38 - 45 (2003)

31.Duan, S, C M. Anderson, E C. Keung, K.Farrell, Y. Chen, and RA. Swanson. P2X₇ Receptor-Mediated Release of Excitatory Amino Acids from Astrocytes. *J Neurosci,* 23: 1320-1328 (2003)

32.Anderson CM, Norquist BA, Vesce S, Nicholls DG, Soine WH, Duan S, Swanson RA. Barbiturates induce mitochondrial depolarization and potentiate excitotoxic neuronal death. *J Neurosci.* 22:9203-9209. (2002)

33.Xiang Y, Li Y., Zhang Z., Wang S., Yuan XB., Wu CP, Poo MM and Duan S*, Nerve growth cones guidance mediated by G-protein-coupled receptors. *Nature Neuroscience,* 5, 843 - 848 (2002)

34.Duan S, Cooke IM, Glutamate and GABA activate different receptors and Cl⁻ conductances in crab

- peptide-secretory neurons. *J Neurophysiol* 83: 31-37 (2000)
- 35.Swanson R.A., Duan S., Regulation of glutamate transporter function (Review). *Neuroscientist*, 5: 280-282 (1999)
- 36.Duan S, Anderson CM, Stein BA, Swanson RA, Glutamate induces rapid upregulation of astrocyte glutamate transport and cell-surface expression of GLAST. *J Neurosci* 19 : 10193-10200 (1999)
- 37.Duan S, Cooke IM, Selective inhibition of transient K⁺ current by La³⁺ in crab peptide-secretory neurons. *J Neurophysiol* 81:1848-1855 (1999)

Selected Invited talks

- 1.COLD SPRING HARBOR ASIA CONFERENCES , Development, Function and Disease of Neural Circuits , October 21-25, 2013 , Suzhou
- 2.Gordon Research Conference on "Glial Biology: Functional Interactions Among Glia & Neurons" , March, 2013, Ventura, CA (USA)
- 3.Gordon Research Conference Molecular & Cellular Neurobiology, June 17-22, 2012, Hong Kong
- 4.Gordon Research Conference on Myelin Feb 14-19, 2010 , Ventura, USA
- 5.Cold Spring Harbor Asia Conferences, Francis Crick Symposium on Neuroscience, April 12 - 17, 2010, Suzhou, China
- 6.5th Congress of Federation of Asian and Oceanian Neuroscience Societies, Nov 25 – 28, 2010, November 25 – 28, 2010, Lucknow, India
- 7.The 9th European Meeting On Glial Cells In Health and Disease. 2009, September 8-12, Paris, France (Plenary Lecture)
- 8.International Symposium on Purinergic Signalling in New Strategy of Drug Discovery , July 23-25, 2009, Fukuoka, Japan
- 9.Gordon Research Conference on "Glial Biology: Functional Interactions Among Glia & Neurons" , March 15-20, 2009, Ventura, CA (USA)
- 10.Gordon Research Conference on "Neurobiology of Brain Disorder" , August 24-29, 2008, Oxford, United Kingdom
- 11.Gordon Research Conference on "Molecular & Cellular Neurobiology" , Jun 8-13, 2008, Hong Kong, China
- 12.Cold Spring Harbor Laboratory Meeting "Glia in Health & Disease" , July 17 - 21, 2008, Cold Spring Harbor (USA)
- 13.Gordon Research Conference on "Glial Biology: Functional Interactions Among Glia & Neurons" , March 11-16, 2007, Ventura, CA (USA)
- 14.Gordon Research Conference on "Excitatory Synapses and Brain Function" , June 10-15, 2007, Colby-Sawyer College in New London, New Hampshire (USA)
- 15.Gordon Research Conference on "Neurotrophic Factors", June 17-22, 2007, Salve Regina University in Newport, Rhode Island
- 16.Symposium in the 7th IBRO WORLD CONGRESS OF NEUROSCIENCE: Purine mediated neuron-glia interactions: physiological and pathological relevance (Chair). Melbourne, Australia, 12-17 July, 2007.
- 17.Neuron-glia crosstalk in synaptic plasticity and neuronal signaling integrations. International symposium on Glial Activities in Neural Plasticity and Information Processing. Jan 2005, Tokyo
- 18.Gordon Research Conference (GRC), Glial Biology: Functional Interactions Among Glia and Neurons, March, 2005, Ventura, CA, USA
- 19.The 20th BIENNIAL MEETING of the International Society for Neurochemistry (ISN), Symposium: Glial cells as therapeutic targets for neurological disorders. Aug 2005, Innsbruck, Austria



浙江大学医学院版权所有

地址：浙江杭州余杭塘路866号 电话：0571-88208020 传真：0571-88208022

邮箱：zhouzeyong@zju.edu.cn

技术支持：YONCC



手机版



官方微信