**CURRICULUM VITAE**

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| **Personal Information** | | | | |  |
| Name | Cao Gang | Gender | Male | |
| Position Title | | Professor | | |
| Working Department | | Department of Preventive Veterinary  Medicine, College of Veterinary Medicine | | |
| Email | **gcao@mail.hzau.edu.cn** | | | |
| Address | State key Laboratory of Agricultural Microbiology  College of Veterinary Medicine  Huazhong Agricultural University  1 Shizishan St., Wuhan, China 430070 | | | |
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| **Research Interest** | | | | | |
| I am a “Chutian Scholar professor” (a distinguished professor title), just moved back from Cold Spring Harbor Laboratory. I am currently setting up a multidisciplinary lab in State key Laboratory of Agricultural Microbiology at HZAU. My main research interests include:   * Interaction between Neurotropic virus and Central Nervous System. * Using Neurotropic virus as a tool to explore Neural circuit. * Molecular mechanisms of virus induced Neural system disorder and Neurodegeration. | | | | | |
| **Professional Memberships** | | | | | |
| * Society for Neuroscience  * Chinese Life Science Professionals Association  * Chinese Society for Neuroscience | | | | | |
| **Other Roles** | | | | | |
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| **Education & Working Experience** | | | | | |
| 2013- Present Professor,  Huazhong Agricultural University, Wuhan, China.  2010-2012 Postdoc,  Cold Spring Harbor Laboratory, USA  2008-2010 Postdoc,  Burnham Institute for Medical Research, USA  2004-2008 Doctor,  Radboud University Nijmegen, The Netherlands   * 1. Research assistant,   Marburg University, Germany  1999-2002 Master,  Sichuan Agricultural University, China  1995-1999 Bachelor,  Sichuan Agricultural University, China | | | | | |
| **Publications** | | | | | |
| 1. Zador, A., Dubnau, J., Oyibo, H., Zhan, H., **Cao G**. and Peikon, I. Sequencing the connectome. **Plos Biology**,10 (10): 1001411, 2012. 2. Qu J, Nakamura T, **Cao G**, Holland EA, McKercher SR, Lipton SA. S-Nitrosylation activates Cdk5 and contributes to synaptic spine loss induced by beta-amyloid peptide.**PNAS** 108(34):14330-5, 2011. 3. **Cao G**, Lee KP, van der Wijst J, de Graaf M, van der Kemp A, Bindels RJ, HoenderopJG. Methionine sulfoxide reductase B1 (MsrB1) recovers TRPM6 channel activity during oxidative stress. **J Biol Chem** 285(34):26081-7, 2010. 4. **Cao G**, TRPM6 and its auxiliary proteins: the molecular puzzle of transepithelialmagnesium transport. Press: Ipskamp Drukkers B.V., Enschede, ,   **ISBN:** 978-90-9025030-4, 2010.   1. **Cao G,** van der Wijst J, van der Kemp A, van Zeeland F, Bindels RJ, Hoenderop JG.Regulation of the epithelial Mg2+ channel TRPM6 by estrogen and the associated repressor protein of estrogen receptor activity (REA). **J Biol Chem** 284(22):14788-95, 2009. 2. **Cao G**, Hoenderop JG, Bindels RJ. Insight into the molecular regulation of theepithelial magnesium channel TRPM6. **Curr Opin Nephrol Hypertens**. 17(4):373-85, 2008 3. **Cao G**, Thébault S, van der Wijst J, van der Kemp A, Lasonder E, Bindels RJ,Hoenderop JG. RACK1 inhibits TRPM6 activity via phosphorylation of the fused alpha-kinase domain. **Current Biology**. 18(3):168-765, 2008 4. Thébault S, **Cao G** (co-first author), Venselaar H, Xi Q, Bindels RJ, Hoenderop JG. Role of the alpha-kinase domain in transient receptor potential melastatin 6 channel and regulation by intracellular ATP. **J Biol Chem**. 283(29):19999 -20007, 2008. 5. Chen, X., Shang, J., Chen, D., Lei, C., Zou, Y., Zhai, W., Liu, G., Xu, J., Ling, Z., **Cao, G**., Ma, B., Wang, Y., Zhao, X., Li, S., Zhu, L. A B-lectin receptor kinase geneconferring rice blast resistance. Plant J 46, 794-804.2006 6. Wang, Y.P., Li, S.G., **Cao, G**., Ma, Y.Q. Dissection and genetic analysis of the major restorer gene of D2 type hybrid rice restorer line. Chinese J Rice Sci 19, 406-410. 2005. 7. Chen, X.W., Li, S.G., Xu, J.C., Zhai, W.X., Ling, Z.Z., Ma, B.T., Wang, Y.P., Wang, W.W., **Cao, G**., Ma, Y.Q., Shang, J.J., Zhao, X.F., Zhou, K.D., Zhu, L.H. Identification of Two Blast Resistance Genes in a Rice Variety, Digu. J. Phytopathology 152, 77–85. 2004   **Submitted**   1. **Cao G**, H Oyibo, H Zhan, Peikon I, A Koulakov, L Enquist, J.Dubnau, A.Zador,Converting neuronal circuit connectivity into a high-throughput DNA sequencing problem.   **Submitted to Nature Neuroscience**   1. Talantova M , Sanz-Blasco S, Xia P, Zhang X, Waseem M ，Okamoto A, **Cao G**, Nakamura T, Dziewczapolski G, Pratt A, Kang Y, Tu S, Molokanova E, McKercher E, Hires A , Wolosker H,…Lipton SA. Extrasynaptic NMDA receptors contribute to synaptic damage triggered by amyloid-β peptide: Relevance to the pathogenesis and treatment of Alzheimer’s disease.   **Conference poster and presentation**   1. Sanz-blasco S, Pina-crespo J, Talantova M., **Cao G**, Lipton SA, Amyloid beta mediated glutamate release from astrocytes. 321.14, **Society for Neuroscience**, 2010 2. **Cao G**, Oyibo H, Zhan H, Znamenskiy P, Koulakov A, Enquist L, Dubnau J, .Zador A,Neural connectivity as a DNA sequencing problem in vitro. 840.11/ZZ63 ，**Society for Neuroscience**, 2011 3. Oyibo H, **Cao G**, Zhan H, Znamenskiy P, Koulakov A, Enquist L, Dubnau J, Zador A, Neural connectivity as a DNA sequencing problem in vivo. 617.25/XX57 **Society for** **Neuroscience**, 2011 4. Oyibo H, **Cao G,** Zhan H, Enquist L, Dubnau J, Zador A, Neural connectivity as a DNA sequencing problem in vivo. 63 **Neuronal Circuits CSHL**, 2012 5. **Cao G**, Oyibo H, Zhan H, Znamenskiy P, Koulakov A, Enquist L, Dubnau J, Zador A,   Neural connectivity as a DNA sequencing problem in vitro. 24 **Neuronal Circuits CSHL**, 2012 | | | | | |
| **Additional Information** | | | | | |
| ***Get interested? You are more than welcome to join my multidisciplinary team!*** | | | | | |