**CURRICULUM VITAE**

|  |  |
| --- | --- |
| **Personal Information**  |  |
| Name | Cao Gang | Gender | Male |
| Position Title | Professor |
| Working Department | Department of Preventive VeterinaryMedicine, 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 |
| Tel | 086-15327266790 | Fax  |  |
| **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** |
|  |
| **Education & Working Experience** |
| 2013- Present Professor,Huazhong Agricultural University, Wuhan, China.2010-2012 Postdoc,Cold Spring Harbor Laboratory, USA2008-2010 Postdoc,Burnham Institute for Medical Research, USA2004-2008 Doctor,Radboud University Nijmegen, The Netherlands* 1. Research assistant,

Marburg University, Germany1999-2002 Master,Sichuan Agricultural University, China1995-1999 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!*** |