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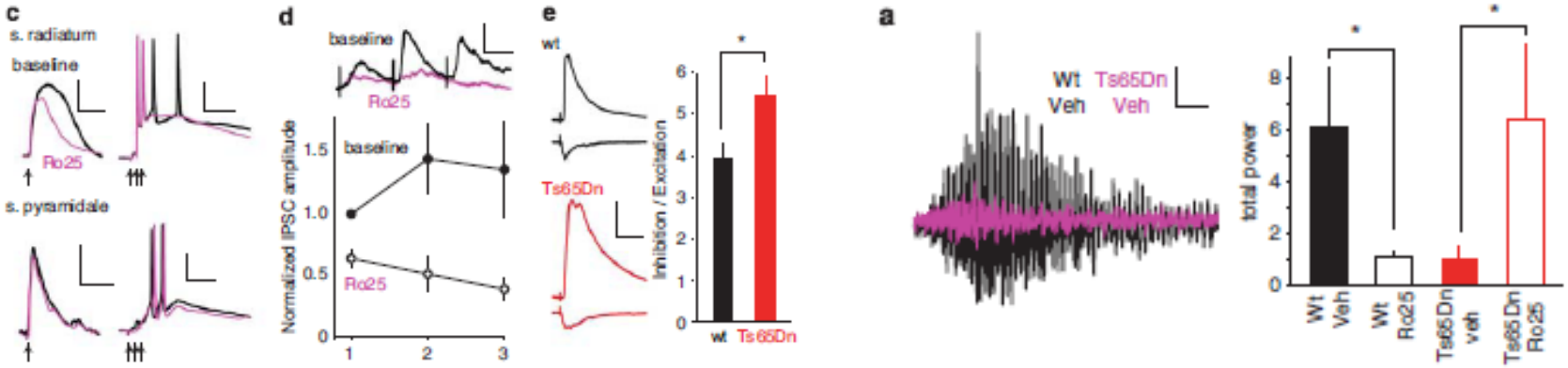
Research interests of Qiang Zhou

- Biological basis of neurodegenerative diseases and psychiatric disorders and their therapy
- Contribution of inhibition to nervous system function and diseases
- Synaptic transmission, plasticity and their contribution to neurological disorders
- Organization of neural circuitry and its contribution to neurodegenerative diseases and psychiatric disorders
- Epigenetic regulation of neuronal functions and diseases
- Use of combined electrophysiological recording and fluorescence imaging in studying neuronal functions

Contribution of inhibition and neural circuitry to neural functions and diseases

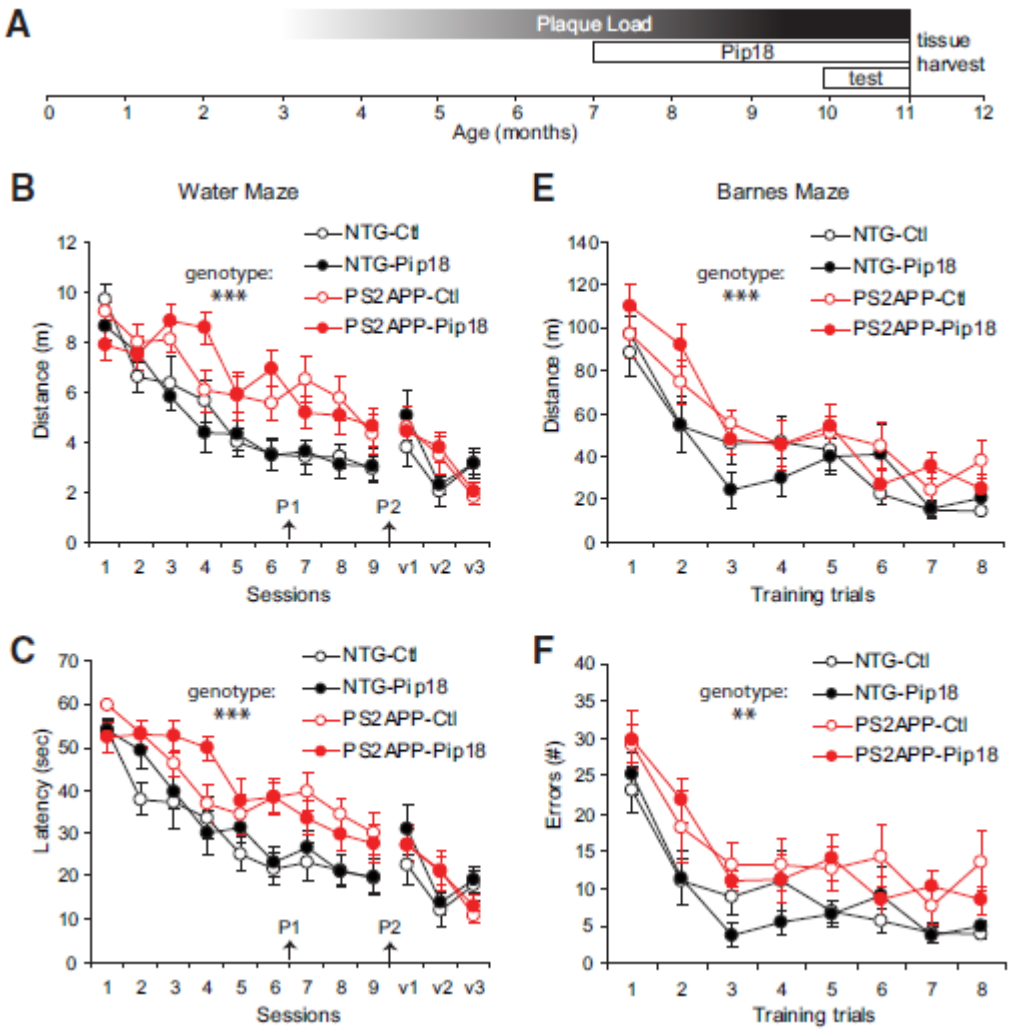


Hanson J et al., *Neuropsychopharmacology*. 38(7):1221-33, 2013.

- ✓ ***Electrophysiological recordings (brain slices, in vivo)***
- ✓ ***Disease models (neurodegenerative and psychiatric)***
- ✓ ***In vitro readout of circuitry functions (e.g., oscillations)***
- ✓ ***Effects of potential drugs (acute and chronic)***

See also - *Hanson J, Deng L, et al., J. Neurosci. 33:5924-9, 2013*
Cox CL et al., Nature 394: 478-482, 1998.

Testing chronic effects of drugs in disease models

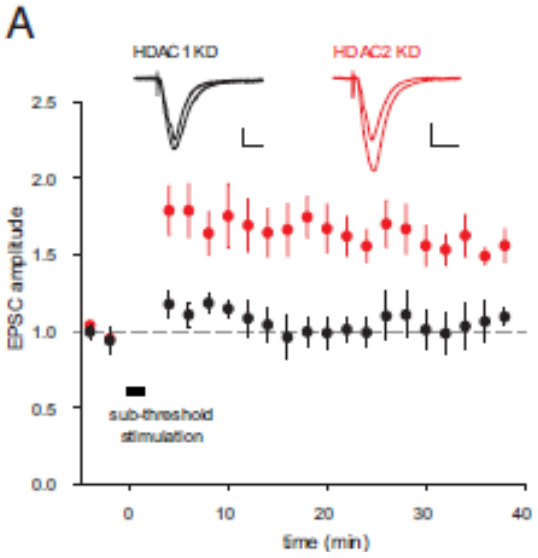


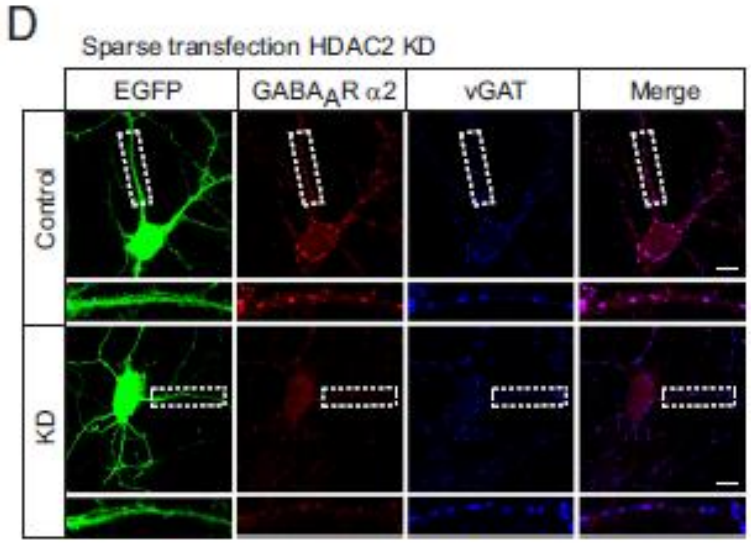
- ✓ **Chronic testing drug effects in disease models**
- ✓ **Relevant animal functions (e.g., memory)**
- ✓ **Long-pursued and novel drug targets**

Hanson J et al., *J. Neurosci.* 34: 8277 – 8288, 2014.

See also - Hanson J et al., *Neuropsychopharmacology*. 38(7):1221-33, 2013.

Epigenetic regulation of neural circuitry and neurological diseases



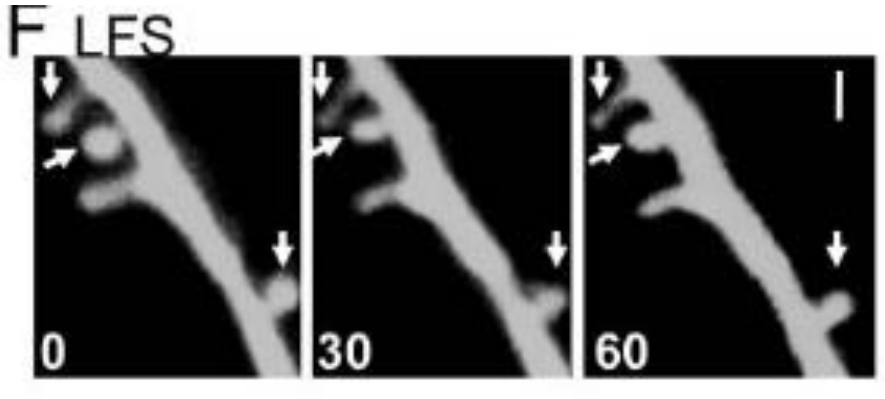


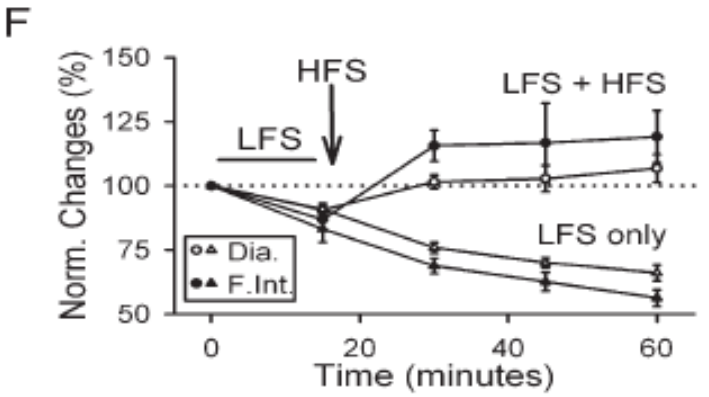
- ✓ **Effects on synaptic transmission and plasticity**
- ✓ **Effects on inhibition and neural network balance**
- ✓ **Effects on animal behavior and functions**
- ✓ **New and novel agents for regulating epigenetic functions**

See also - Hanson J et al., *Plos One.* 8: e69964, 2013.

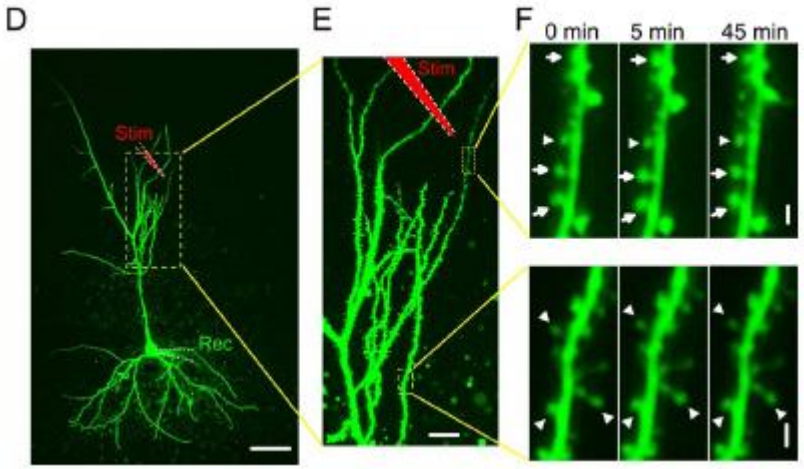
Hanson J, Deng L, et al., J. Neurosci. 33:5924-9, 2013.

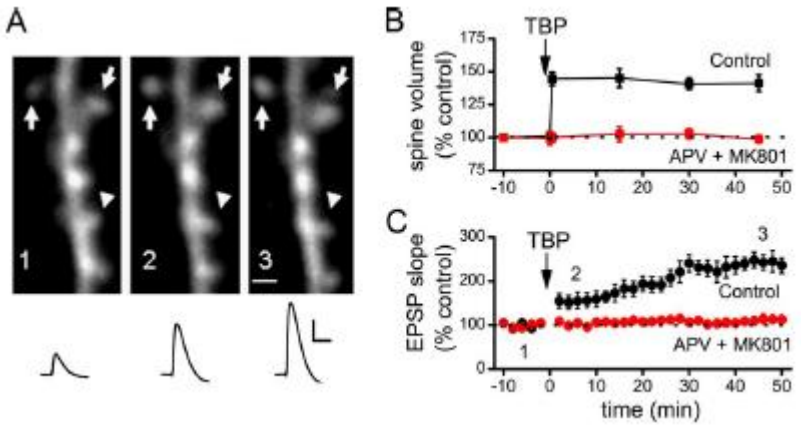
Synaptic and spine modifications
- in neural development, function and diseases





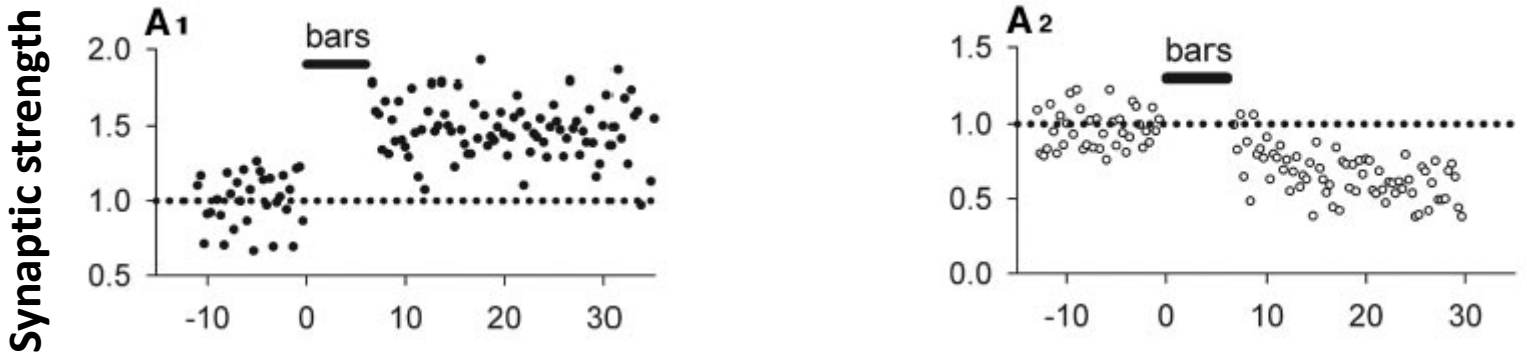
Zhou Q et al., *Neuron* 44:749-757, 2004.





Yang Y et al., *J. Neurosci.* 28:5740-51, 2008.

Synaptic and spine modifications
- in neural development, function and diseases



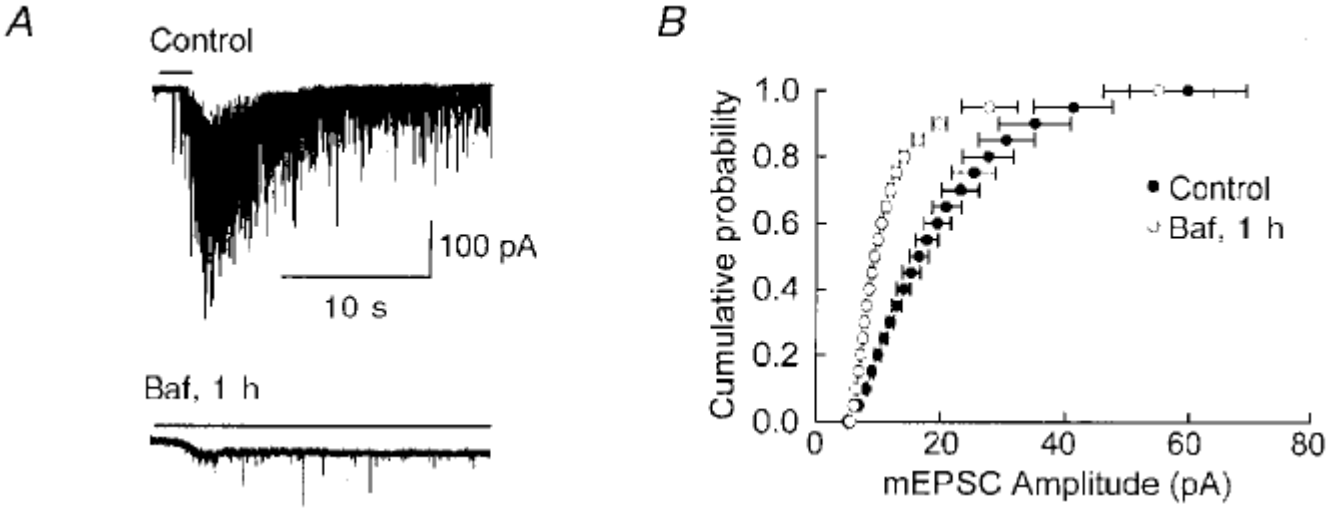
Zhou Q et al., *Science* 300, 1953-1957, 2003.

- ✓ ***In vitro* and *in vivo***
- ✓ ***Functional significance***
- ✓ ***Disease relevance***
- ✓ ***Biological mechanisms***

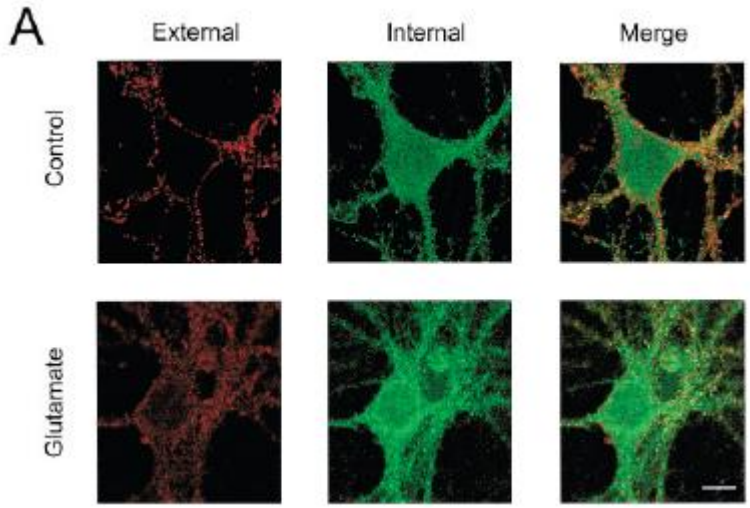
See also

Wang X et al., *J. Neurosci.* 27:12419-29, 2007.
Yang Y eta l., *PNAS.* 105: 11388-11393, 2008.
Wang X et al., *PNAS* 105:19520-19525, 2008.
Yang y et al., *PNAS* 107: 11999-2004, 2010.
Bozdagi O et al. *J Neurosci.* 30: 9984-9, 2010.
Bozdagi O et al., *Mol Autism.* 1(1):15, 2010.

Basic mechanisms of synaptic transmission and its role in neuronal diseases



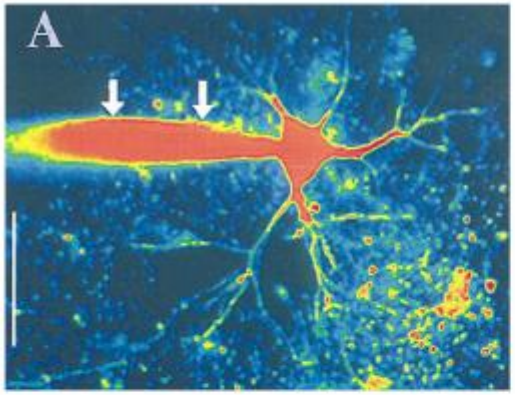
Zhou Q et al., *J. Physiology* 525 (1):195-206, 2000.

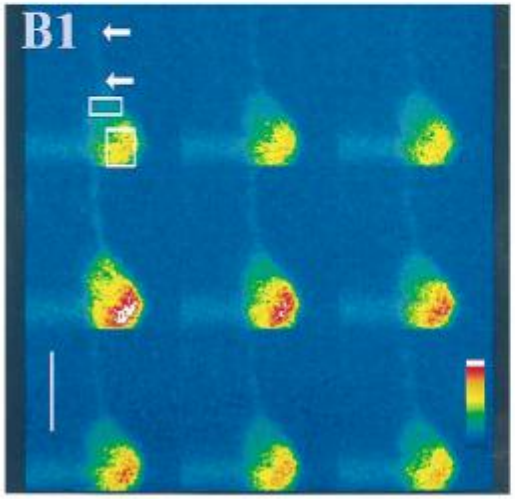


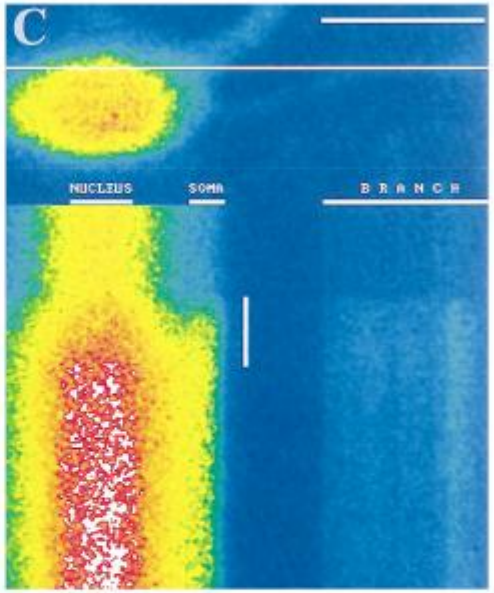
- ✓ ***In vitro* and *in vivo***
- ✓ ***Functional significance***
- ✓ ***Disease relevance***
- ✓ ***Biological mechanisms***

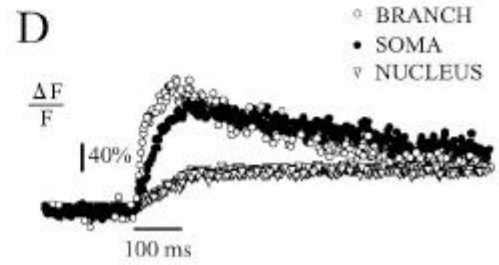
Zhou Q et al., *Proc. Natl. Acad. USA*. 98: 1261-1266, 2001.

Combining electrophysiological recording with fluorescence imaging









Combined with

- **Ca2+ imaging**
- **Voltage-sensing**
- **Imaging structural changes**

In vivo* and *in vitro

to study

- **Basic biology**
- **Disease mechanisms**

Zhou Q et al., *J. Neurophysiol.* 77: 2816-2825, 1997.

Neurological Disorders Related Journals

- Journal of Neurology & Neurophysiology
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