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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


- 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
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


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.

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


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


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

See also
Basic mechanisms of synaptic transmission and its role in neuronal diseases


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

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

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