

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Keming Gao, MD, PhD		POSITION TITLE Assistant Professor, Dept. of Psychiatry NIMH Center for Bipolar Disorder/Mood Disorders Case Western Reserve University School of Med.	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Weifang Medical College	MD	1984	Medicine
Shanghai Medical University	PhD	1994	Physiology

A. Positions and Honors**Positions**

- 08/06 – Current Assistant Professor, Dept. of Psychiatry, University Hospitals Case Medical Center,
Case Western Reserve University School of Medicine
- 07/04 – 07/06 Bipolar Research Fellow
NIMH Bipolar Research Center
Mood Disorders Program, Director, Joseph Calabrese, M.D.
Department of Psychiatry
University Hospitals of Cleveland
Case Western Reserve University School of Medicine
Cleveland, Ohio
- 07/03 - 06/04 Chief Resident
Department of Psychiatry
MetroHealth Medical Center
Affiliated with Case Western Reserve University
Cleveland, Ohio
- 07/00 - 06/04 Resident in Psychiatry
Department of Psychiatry
MetroHealth Medical Center
Affiliated with Case Western Reserve University
Cleveland, Ohio
- 06/04 - present Visiting Professor
Weifang Medical University
Weifang City, Shandong Province, P. R. China

Honors

- 2006 Recipient of the NARSAD Young Investigators Award
- 2007
- 2005 Recipient of the NCDEU New Investigator Award, June 6-9, 2005, Boca Raton, Florida

- 2005 Recipient of American Psychiatric Association Research Colloquium for Junior Investigators, May 22, 2005, Atlanta, Georgia
- 2005 Recipient of Fellowship Travel Award of the 4th Annual Workshop on Clinical Trials in Psychopharmacology, The American Society of Clinical Psychopharmacology, NIMH, and the Zucker Hillside Hospital, April 12-14, 2005, New York City, NY

B. Peer-reviewed publications

1. Guo X., **Gao K.** and Zhu D., Effect of microinjection of 5-HT into the rostral ventrolateral medulla on ventricular extrasystoles induced by hypothalamic stimulation in the rabbit, Chinese Journal of Physiological Sciences, 6 (1990) 129- 137.
2. **Gao K.**, Lin Y. and Guo X., Changes of 5-hydroxyindoleacetic acid in the nucleus paragigantocellularis lateralis detected with *in vivo* voltammetry, Chinese Journal of Physiological Sciences, 7 (1991) 27-33.
3. **Gao K.** and Guo X., Serotonergic mechanism in the rostral ventrolateral medulla plays a role in the inhibitory effect of somatic inputs on the experimental ventricular extrasystoles, Chinese Journal of Physiological Science, 7 (1991) 300-308.
4. **Gao K.** and Li P., Post-synaptic activity evoked in the rostral ventrolateral medullary neurons by stimulation of the defense areas of hypothalamus and midbrain in the rat, Neuroscience Letters 161 (1993) 153-156.
5. **Gao K.** and Li P., Convergent inputs to the rostral ventrolateral medullary neurons of the rat, Chinese Journal of Physiological Sciences, 9 (1993) 372-376.
6. **Gao K.** and Li P., Effects of baroreceptor inputs on the activity of rostral ventrolateral medullary neurons evoked by stimulation of defense areas and somatic nerves, Chinese Journal of Physiological Sciences, 10 (1994) 283-288.
7. **Gao K.** and Li P., Responses of neurons in the nucleus paragigantocellularis lateralis to somatic nerve stimulation, Neuroscience Letters, 178 (1994) 15-18.
8. **Gao K.** and Li P., Integrated responses of the rostral ventrolateral medullary neurons to the stimulation of the defense area of hypothalamus or midbrain and somatic nerves, Acta Academiae Medicinae Shanghai Suppl. 21 (1994) 20-25.
9. **Gao K.**, Kim Y. H. and Mason P., Serotonergic pontomedullary neurons are not activated by antinociceptive stimulation in the periaqueductal gray, The Journal of Neuroscience 17 (1997) 3285-3292.
10. **Gao K.** and Mason P., Somatodendritic and axonal anatomy of intracellularly labeled serotonergic neurons in the rat medulla, The Journal of Comparative Neurology, 389 (1997) 309-328.
10. **Gao K.**, Chen D. O., Genzen J. R. and Mason P., Activation of serotonergic neurons in the raphe magnus is not necessary for morphine analgesia, The Journal of Neuroscience, 18 (1998) 1860-1864.
11. Mason P. and **Gao K.**, Raphe magnus serotonergic neurons tonically modulate nociceptive transmission, Pain Forum 7 (1998) 143-150.
12. **Gao K.** and Mason P. Serotonergic raphe magnus cells that respond to noxious tail heat are not ON or OFF cells, Journal of Neurophysiology, 84 (2000) 1719 - 1725.

Principal Investigator/Program Director (Last, First, Middle): Calabrese, Joseph R

13. **Gao K.** and Mason P. The discharge of a subset of serotonergic raphe magnu cells is influenced by baroreceptor input, *Brain Research*, 900 (2001) 306 - 313.
14. **Gao K.** and Mason P., Physiological and anatomical evidence for functional subclasses of serotonergic raphe magnus cells, *Journal of Comparative Neurology*, 439 (2001) 426 - 439.
15. Gajwani P, Forsthoff A, Muzina D, Amann B, **Gao K**, Elhaj O, Shelton MD, Calabrese JR, and Grunze H. Antiepileptic drugs in mood disordered patients. *Epilepsia*. 46 Suppl 4 (2005):38-44.
16. Muzina DJ, Elhaj O, Gajwani P, **Gao K**, Calabrese JR. Lamotrigine and antiepileptic drugs as mood stabilizers in bipolar disorder. *Acta Psychiatr Scand* 2005; 111 (426): 21-28.
17. **Gao K**, Calabrese JR: Newer treatment studies for bipolar depression. *Bipolar Disorders* 2005 Dec; 7 Suppl 5:13-23.
18. **Gao K**, Gajwani P, Elhaj O, Calabrese JR: Typical and atypical antipsychotics in bipolar depression. *J Clin Psychiatry*. 2005;66(11):1376-1385.

C. Research Support

Ongoing Research Support

MH-066054 (PI Calabrese)

NIMH

9/03-6/08

Bipolar Disorder Across the Life Span

The primary objective of this Developing Center for Interventions and Services Research is to improve clinical outcomes in underserved populations of bipolar disorder through the conduct of research focusing on those receiving care in community mental health centers, children and adolescents, and those who are also abusing alcohol and/or drugs.