Meeting Abstracts

 \* Kiritoshi, T., Yakhnitsa, V.A., **Neugebauer, V.**Correlation between pain-related behaviors and synaptic transmission in amygdala CRF neurons in a neuropathic pain model. Soc. Neurosci. Abstr. 49:422.21, 2019.

**\* Neugebauer, V**., Mazzitelli, M., Yakhnitsa, V. Optogenetic stimulation of amygdala CRF neurons modulates pain-related behaviors in a rodent model of neuropathic pain. Soc. Neurosci. Abstr. 49:482.22, 2019

     \* Hein, M.A., Ji, G., Navratilova, E., Porreca, F., **Neugebauer, V.** Kappa opioid receptor blockade restores inhibition of amygdala CRF neurons in a functional pain model. Soc. Neurosci. Abstr. 49:482.23, 2019.

       \* Ji, G., Navratilova, E., Porreca, F., **Neugebauer, V.**Kappa opioid receptors mediate hyperactivity of central amygdala neurons in a functional pain model. Soc. Neurosci. Abstr. 49:482.24, 2019.

\* Mazzitelli, M., **Neugebauer, V.** Group II metabotropic glutamate receptors modulate synaptic transmission in CRF-CeA neurons in an arthritic pain model. Soc. Neurosci. Abstr. 49:482.25, 2019.

       \* Yakhnitsa, V.A., Kiritoshi, T., **Neugebauer, V**. Phenotypic differences in potassium (SK) channel dysfunction in the amygdala in a rat model of neuropathic pain. Soc. Neurosci. Abstr. 49:482.26, 2019.

       \* Hossain, M.A., Ji, G., Abbruscato, T.J., **Neugebauer, V**., German, N.A. Development of selective kappa opioid receptor antagonist for the treatment of chronic neuropathic pain. Soc. Neurosci. Abstr. 49: 661.07, 2019.

       \* Arandia, G., Boles, A., Lopes, V., **Neugebauer, V**. Diabetes as a Risk Factor for Mild Cognitive Impairment in Older Residents of Rural West Texas. 71st Annual Scientific Meeting of The Gerontological Society of America (GSA). Innovation in Aging 3, S1: 860, 2019.

      \* Shen, C.L., Wang, R., Ji, G., Vellers, H., Sang, S., **Neugebauer, V**. Dietary supplementation of gingerols- and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. Nutrition 2020. Abstract ID 841370. Curr. Dev. Nutr., 2020.

      \* Elmassry, M., Wang, R., Hamood, A., **Neugebauer, V**., Shen, C.L. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. Nutrition 2020. Abstract ID 841512.Curr. Dev. Nutr., 2020.

      \* Zabet-Moghaddam, M., Gong, X., Mirzaei, P. Wang, R., **Neugebauer, V**., Shen, C.L. Differential impacts of gingerols- and shogaols-enriched ginger root extracts on fecal metabolites in rats with neuropathic pain. Nutrition 2020. Abstract ID 841603, Curr. Dev. Nutr., 2020.

 \* Phelps, C.E., Navratilova, E., **Neugebauer, V.,** Porreca, F. Kappa Opioid Receptor Activation in the Right Central Nucleus of the Amygdala is Sufficient to Induce Conditioned Place Aversion and Periorbital Allodynia in the Absence of Injury. 18th World Congr. Pain, IASP, 2020.

Invited Lectures

04-29-2020   “Role of amygdala CRF neurons in pain". Neuroscience Research Center, Medical College of Wisconsin**, Milwaukee, WI**.

04-21-2020   “Role of the amygdala in pain and opioid functions”. Louisiana Addiction Research Center Symposium, LSU, **Shreveport, LA**

04-09-2020   "Amygdala pain mechanisms – Role of the CRF system". NIH PAIN Special Interest Group (SIG) Seminar Series. **Bethesda, MD**.

01-08-2020   "Role of amygdala CRF neurons in pain". National Institute of Physiological Sciences International Workshop on Frontiers in Defensive Survival Circuit Research - Pain and Survival Strategy, **Okazaki Japan**

06-07-2019   "Behavioral assessment in preclinical pain models". Neuroscience School of Advanced Studies, **Venice, Italy**.

06-07-2019   "Brain activity measurements in preclinical pain models". Neuroscience School of Advanced Studies,**Venice, Italy**.

05-09-2019   "Phenotypic differences in neuropathic pain - role of the amygdala". Topical workshop proposal (566495: Active roles of amygdala plasticity in neuropathic pain in diabetes and nerve injury models), 7thInternational Congress for Neuropathic Pain, **London, UK**.

04-23-2919   "Amygdala plasticity and pain". Center for Biomedical Research Excellence for the Study of Pain and Sensory Function, University of New England, **Biddeford, ME**.

04-11-2019   "Novel opioid actions in the amygdala". Center of Excellence for Translational Neuroscience and Therapeutics, Collaboration across Pain Science and Practice, TTUHSC, **Lubbock, TX**

03-29-2019   “Amygdala plasticity and pain”. Department of Biological Sciences, Duquesne University, **Pittsburgh, PA.**

03-27-2019   “Amygdala plasticity and pain”. Pittsburgh Center for Pain Research, University of Pittsburgh, **Pittsburgh, PA.**