



23 December 2021

MEMORANDUM NO. 714

Series of 2021

T O: Dr. Ma. Theresa P. Loreto, Director ARIC and Dean CAS
Dr. Santiago T. Peña, Dean CVM
Dr. Joel Rey Acob, Dean CoN
Dr. Elwin Jay V. Yu, USHER

R E: Consultation with Balik Scientist Dr. Bryan dela Peña

You are hereby invited to attend a consultation with Balik Scientist Dr. Bryan dela Peña on December 27, 2021 at 9:00 am at the Advanced Research and Innovation Room (ARIC) Conference Room. You may bring your faculty and staff interested in research to attend this consultation meeting. Attached is the CV of Dr. dela Peña for your reference.

For the information and attendance of everyone.

EDGARDO E. TULIN
President

Curriculum Vitae, June Bryan de la Peña, Ph.D.

Postdoctoral Research Scientist
School of Natural Sciences and Math
Department of Biological Sciences
The University of Texas at Dallas
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Richardson, TX 75080

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Professional experience

2017-present Postdoctoral Research Scientist with Dr. Zachary Campbell
Center for Advanced Pain Studies, Department of Biological Sciences, The University
of Texas at Dallas, Richardson, TX, USA
2016-2017 Research Professor, Sahmyook University, Seoul, South Korea
2011-2017 Researcher, Uimyung Research Institute for Neuroscience,
Sahmyook University, Seoul, South Korea

Education

2016 Ph.D. in Pharmacy, Major in Pharmacology, with Dr. Jae Hoon Cheong, Department
of Pharmacy, Sahmyook University, Seoul, South Korea
2013 Master of Science in Pharmacy, Major in Pharmacology,
Department of Pharmacy, Sahmyook University, Seoul, South Korea
2010 Bachelor of Science in Nursing
Western Leyte College, Ormoc City, Philippines

Professional Recognition

2016-2017 Fellowship Grant for Foreign Researchers,
National Research Foundation of Korea, South Korea.
Project title: *"Study on the long-lasting behavioral and neurobiological consequences
of adolescent-onset cigarette smoking."*
2015-2016 Woojung Scholarship Grant for excellent foreign students in Korea. Woojung
Education and Culture Foundation, Seoul, South Korea
2016 Award of Recognition for Academic Achievement
The Embassy of the Republic of the Philippines in Korea
2015 Oral Presentation Award, Title: *"A transgenic mouse showing sustained hyperactivity;
a possible animal model of ADHD."*, Pharmacological Society of Korea, Daegu, South
Korea
2013 Best Thesis Award, Title: *"The abuse potential of the NMDA receptor antagonist-
benzodiazepine combination, Zoletil"*. Sahmyook University, Seoul, South Korea

2010 Academic Excellence Award, Clinical Excellence Award, and Leadership Award
Western Leyte College, Ormoc City, Philippines

Professional Organizations

2020-present	The International Association for the Study of Pain (IASP)
2020-present	The Center for Advanced Pain Studies (CAPS)
2012-present	Society for Neuroscience (SFN)
2010-present	Philippine Nurses Association (PNA)
2016	Federation of European Neuroscience Societies (FENS)
2015	World Federation of ADHD
2014	International College of Neuropsychopharmacology (CINP)
2011-2017	The Pharmaceutical Society of Korea
2011-2017	Korean Society of Applied Pharmacology
2011-2017	Pinoy Iskolar sa Korea (Association of Filipino Scholars in Korea)

Peer-reviewed Publications (reverse chronological order)

H = 14, Citations = 581, Google Scholar July 5, 2021

Book Chapters

1. Loerch, S., **de la Peña, J. B.**, Song, J., Pancrazio, J. J., Price T. J., Campbell, Z. T. (2019). Translational Controls in Pain. The Oxford Handbook of Neuronal Protein Synthesis, Dr. Wayne S. Sossin (Ed.), Oxford University Press, DOI: 10.1093/oxfordhb/9780190686307.001.0001
2. **de la Peña, J. B.**, Botanas, C. J., Tampus, R., de la Peña, I. J., Kim, H. J., de la Peña, I., & Cheong, J. H. (2015). Updates on the Use of Natural Treatments for Attention-Deficit Hyperactivity Disorder (ADHD). ADHD - New Directions in Diagnosis and Treatment, Dr. Jill M. Norvilitis (Ed.), InTechOpen, DOI: 10.5772/60840.

Review articles

1. **de la Peña, J. B. I.**, Song, J. J., & Campbell, Z. T. (2019). RNA control in pain: Blame it on the messenger. Wiley Interdisciplinary Reviews: RNA, 10(6), e1546.
2. Botanas, C. J., **de la Peña, J. B.**, Kim, H. J., Lee, Y. S., & Cheong, J. H. (2019). Methoxetamine: A foe or friend? Neurochemistry international, 122, 1-7.
3. **de la Peña, J. B.**, & Campbell, Z. T. (2018). RNA-binding proteins as targets for pain therapeutics. Neurobiology of Pain, 4, 2-7.
4. Kim, M., **de La Pena, J. B.**, Cheong, J. H., & Kim, H. J. (2018). Neurobiological functions of the period circadian clock 2 gene, Per2. Biomolecules & therapeutics, 26(4), 358.
5. **de la Peña, J. B.**, dela Peña, I. J., Custodio, R. J., Botanas, C. J., Kim, H. J., & Cheong, J. H. (2018). Exploring the validity of proposed transgenic animal models of attention-deficit hyperactivity disorder (ADHD). Molecular Neurobiology, 55(5), 3739-3754.
6. **de la Peña, J. B.** & Cheong, J. H. (2016). The abuse liability of the NMDA receptor antagonist-benzodiazepine (tiletamine-zolazepam) combination: evidence from clinical case reports and pre-clinical studies. Drug Testing and Analysis, 8 (8), pp.760-767.

Research articles

1. Barragan-Iglesias, P., Kunder, N., Wanghzhou, A., Black, B., Ray, P. R., Lou, T. F., **de la Peña, J. B.**, ... & Campbell, Z. T. (2021). A peptide encoded within a 5'untranslated region promotes pain sensitization in mice. Pain.
2. Botanas, C. J., Custodio, R. J. P., Kim, H. J., **de la Peña, J. B.**, Sayson, L. V., Ortiz, D. M., ... & Cheong, J. H. (2021). R (-)-methoxetamine exerts rapid and sustained antidepressant effects and fewer behavioral side effects relative to S (+)-methoxetamine. Neuropharmacology, 108619.
3. Shukla, T., **de la Peña, J. B.**, Perish, J. M., Ploski, J. E., Stumpf, C. R., Webster, K. R., ... & Campbell, Z. T. (2020). A Highly Selective MNK Inhibitor Rescues Deficits Associated with Fragile X Syndrome in Mice. Neurotherapeutics, 1-16.
4. Atmaramani, R. R., Black, B. J., **de la Peña, J. B.**, Campbell, Z. T., & Pancrazio, J. J. (2020). Conserved Expression of Nav1. 7 and Nav1. 8 Contribute to the Spontaneous and Thermally Evoked Excitability in IL-6 and NGF-Sensitized Adult Dorsal Root Ganglion Neurons In Vitro. Bioengineering, 7(2), 44.
5. Kim, M., Custodio, R. J., Botanas, C. J., **de la Peña, J. B.**, Sayson, L. V., Abiero, A., ... & Kim, H. J. (2019). The circadian gene, Per2, influences methamphetamine sensitization and reward through the dopaminergic system in the striatum of mice. Addiction biology, 24(5), 946-957.
6. Abiero, A., Botanas, C. J., Sayson, L. V., Custodio, R. J., **de la Peña, J. B.**, Kim, M., ... & Yang, J. S. (2019). 5-Methoxy- α -methyltryptamine (5-MeO-AMT), a tryptamine derivative, induces head-twitch responses in mice through the activation of serotonin receptor 2a in the prefrontal cortex. Behavioural brain research, 359, 828-835.
7. Kim, M., Custodio, R. J., Botanas, C. J., **de la Peña, J. B.**, Sayson, L. V., Abiero, A., ... & Kim, H. J. (2019). The circadian gene, Per2, influences methamphetamine sensitization and reward through the dopaminergic system in the striatum of mice. Addiction biology, 24(5), 946-957.
8. Custodio, R.J.P., Botanas, C.J., **de la Peña, J.B.**, dela Peña, I.J., Kim, M., Sayson, L.V., Abiero, A., Ryoo, Z.Y., Kim, B.N., Kim, H.J. and Cheong, J.H., 2018. Overexpression of the Thyroid Hormone-Responsive (THRSP) Gene in the Striatum Leads to the Development of Inattentive-like Phenotype in Mice. Neuroscience, 390, pp.141-150.
9. Botanas, C. J., Yoon, S. S., **de la Peña, J. B.**, dela Peña, I. J., Kim, M., Custodio, R. J., ... & Yoon, Y. M. (2018). A new synthetic drug 5-(2-aminopropyl) indole (5-IT) induces rewarding effects and increases dopamine D1 receptor and dopamine transporter mRNA levels. Behavioural brain research, 341, 122-128.
10. Custodio, R. J. P., Botanas, C. J., Yoon, S. S., **de la Peña, J. B.**, dela Peña, I. J., Kim, M., ... & Kim, N. Y. (2017). Evaluation of the abuse potential of novel amphetamine derivatives with modifications on the amine (NBNA) and phenyl (EDA, PMEA, 2-APN) sites. Biomolecules & therapeutics, 25(6), 578.
11. Botanas, C. J., **de la Peña, J. B.**, Custodio, R. J., dela Peña, I. J., Kim, M., Woo, T., ... & Cheong, J. H. (2017). Methoxetamine produces rapid and sustained antidepressant effects probably via glutamatergic and serotonergic mechanisms. Neuropharmacology, 126, 121-127.
12. dela Peña, I., dela Peña, I. J., **de la Peña, J. B.**, Kim, H. J., Shin, C. Y., Han, D. H., ... & Cheong, J. H. (2017). Methylphenidate and atomoxetine-responsive prefrontal cortical genetic overlaps in "impulsive" SHR/NCrl and Wistar rats. Behavior genetics, 47(5), 564-580.
13. Dela Pena, I. J. I., Dela Pena, I., **de la Peña, J. B.**, Kim, H. J., Sohn, A., Shin, C. Y., ... & Cheong, J. H. (2017). Transcriptional profiling of SHR/NCrl prefrontal cortex shows

- hyperactivity-associated genes responsive to amphetamine challenge. Genes, Brain and Behavior, 16(7), 664-674.
14. Botanas, C. J., Yoon, S. S., **de la Peña, J. B.**, dela Peña, I. J., Kim, M., Woo, T., ... & Lee, Y. S. (2017). The abuse potential of α -piperidinopropiophenone (PIPP) and α -piperidinopentiothiophenone (PIVT), two new synthetic cathinones with piperidine ring substituent. Biomolecules & therapeutics, 25(2), 122.
 15. Botanas, C. J., Yoon, S. S., **de la Peña, J. B.**, dela Peña, I. J., Kim, M., Woo, T., ... & Lee, Y. S. (2017). The abuse potential of two novel synthetic cathinones with modification on the alpha-carbon position, 2-cyclohexyl-2-(methylamino)-1-phenylethanone (MACHP) and 2-(methylamino)-1-phenyloctan-1-one (MAOP), and their effects on dopaminergic activity. Pharmacology Biochemistry and Behavior, 153, 160-167.
 16. Kim, M., Kim, H. J., Kim, S. M., **de la Peña, J. B.**, Botanas, C. J., Woo, T., ... & Cheong, J. H. (2017). Protection against electroshock-and pentylenetetrazol-induced seizures by the water extract of rehmannia glutinosa can be mediated through GABA receptor-chloride channel complexes. Natural Product Sciences, 23(1), 40-45.
 17. Botanas, C. J., Yoon, S. S., **de la Peña, J. B.**, dela Peña, I. J., Kim, M., Woo, T., ... & Lee, Y. S. (2017). A novel synthetic cathinone, 2-(methylamino)-1-(naphthalen-2-yl) propan-1-one (BMAPN), produced rewarding effects and altered striatal dopamine-related gene expression in mice. Behavioural brain research, 317, 494-501.
 18. **de la Peña, J. B.**, Ahsan, H. M., Botanas, C. J., Dela Pena, I. J., Woo, T., Kim, H. J., & Cheong, J. H. (2016). Cigarette smoke exposure during adolescence but not adulthood induces anxiety-like behavior and locomotor stimulation in rats during withdrawal. International Journal of Developmental Neuroscience, 55, 49-55.
 19. dela Pena, I. J. I., Kim, H. J., **de la Peña, J. B.**, Kim, M., Botanas, C. J., You, K. Y., ... & Cheong, J. H. (2016). A tryptic hydrolysate from bovine milk α 1-casein enhances pentobarbital-induced sleep in mice via the GABAA receptor. Behavioural brain research, 313, 184-190.
 20. dela Peña, I. J. I., Kim, H. J., Botanas, C. J., **de la Peña, J. B.**, Van Le, T. H., Nguyen, M. D., ... & Cheong, J. H. (2017). The psychopharmacological activities of Vietnamese ginseng in mice: characterization of its psychomotor, sedative-hypnotic, antistress, anxiolytic, and cognitive effects. Journal of Ginseng Research, 41(2), 201-208.
 21. Botanas, C. J., Lee, H., **de la Peña, J. B.**, dela Peña, I. J., Woo, T., Kim, H. J., ... & Cheong, J. H. (2016). Rearing in an enriched environment attenuated hyperactivity and inattention in the spontaneously hypertensive rats, an animal model of attention-deficit hyperactivity disorder. Physiology & behavior, 155, 30-37.
 22. Tampus, R., Yoon, S. S., **de la Peña, J. B.**, Botanas, C. J., Kim, H. J., Seo, J. W., ... & Cheong, J. H. (2015). Assessment of the abuse liability of synthetic cannabinoid agonists JWH-030, JWH-175, and JWH-176. Biomolecules & therapeutics, 23(6), 590.
 23. Dela Pena, I. J. I., Hong, E., **de la Peña, J. B.**, Kim, H. J., Botanas, C. J., Hong, Y. S., ... & Cheong, J. H. (2015). Milk collected at night induces sedative and anxiolytic-like effects and augments pentobarbital-induced sleeping behavior in mice. Journal of medicinal food, 18(11), 1255-1261.
 24. Botanas, C. J., **de la Peña, J. B.**, dela Pena, I. J., Tampus, R., Kim, H. J., Yoon, S. S., ... & Cheong, J. H. (2015). Evaluation of the abuse potential of AM281, a new synthetic cannabinoid CB1 receptor antagonist. European Journal of Pharmacology, 766, 135-141.
 25. dela Peña, I. J. I., Hong, E., Kim, H. J., **de la Peña, J. B.**, Woo, T. S., Lee, Y. S., & Cheong, J. H. (2015). Artemisia capillaris Thunberg produces sedative-hypnotic effects in mice, which are probably mediated through potentiation of the GABAA receptor. The American journal of Chinese medicine, 43(04), 667-679.

26. **de la Peña, J. B.**, Ahsan, H. M., Tampus, R., Botanas, C. J., dela Peña, I. J., Kim, H. J., ... & Cheong, J. H. (2015). Cigarette smoke exposure during adolescence enhances sensitivity to the rewarding effects of nicotine in adulthood, even after a long period of abstinence. Neuropharmacology, 99, 9-14.
27. dela Peña, I., Bang, M., Lee, J., **de la Peña, J. B.**, Kim, B. N., Han, D. H., ... & Cheong, J. H. (2015). Common prefrontal cortical gene expression profiles between adolescent SHR/NCrl and WKY/NCrl rats which showed inattention behavior. Behavioural Brain Research, 291, 268-276.
28. Botanas, C. J., **de la Peña, J. B.**, Dela Pena, I. J., Tampus, R., Yoon, R., Kim, H. J., ... & Cheong, J. H. (2015). Methoxetamine, a ketamine derivative, produced conditioned place preference and was self-administered by rats: evidence of its abuse potential. Pharmacology Biochemistry and Behavior, 133, 31-36.
29. Ahsan, H. M., **de la Peña, J. B. I.**, Botanas, C. J., Kim, H. J., Yu, G. Y., & Cheong, J. H. (2014). Conditioned place preference and self-administration induced by nicotine in adolescent and adult rats. Biomolecules & therapeutics, 22(5), 460.
30. dela Peña, I., **de la Peña, J. B.**, Kim, B. N., Han, D. H., Noh, M., & Cheong, J. H. (2015). Gene expression profiling in the striatum of amphetamine-treated spontaneously hypertensive rats which showed amphetamine conditioned place preference and self-administration. Archives of Pharmacal Research, 38(5), 865-875.
31. dela Peña, I., Gonzales, E. L., **de la Peña, J. B.**, Kim, B. N., Han, D. H., Shin, C. Y., & Cheong, J. H. (2015). Individual differences in novelty-seeking behavior in spontaneously hypertensive rats: Enhanced sensitivity to the reinforcing effect of methylphenidate in the high novelty-preferring subpopulation. Journal of neuroscience methods, 252, 48-54.
32. **de la Peña, J. B.**, Ahsan, H. M., Botanas, C. J., Sohn, A., Yu, G. Y., & Cheong, J. H. (2014). Adolescent nicotine or cigarette smoke exposure changes subsequent response to nicotine conditioned place preference and self-administration. Behavioural brain research, 272, 156-164.
33. **de la Peña, J. B.**, Ahsan, H. M., dela Peña, I. J., Park, H. B., Kim, H. J., Sohn, A., ... & Cheong, J. H. (2014). Propofol pretreatment induced place preference and self-administration of the tiletamine-zolazepam combination: implication on drug of abuse substitution. The American Journal of Drug and Alcohol Abuse, 40(4), 321-326.
34. Dela Peña, I. J. I., **de la Peña, J. B.**, Yoon, S. Y., Kim, H. J., Lee, J. H., Paek, S. H., ... & Cheong, J. H. (2014). Supplementation of *Laurus nobilis* attenuate ethanol-induced psychomotor alterations in rats. Natural Product Sci, 20, 44.
35. dela Peña, I. J. I., Yoon, S. Y., **de la Peña, J. B.**, Park, S., Yoon, B., Kim, H. J., ... & Cheong, J. H. (2014). The ameliorating effect of *Rosa roxburghii* against ethanol-induced psychomotor alterations in rats. The American Journal of Drug and Alcohol Abuse, 40(1), 75-81.
36. **de la Peña, J. B. I.**, Kim, C. A., Lee, H. L., Yoon, S. Y., Kim, H. J., Hong, E. Y., ... & Cheong, J. H. (2014). Luteolin mediates the antidepressant-like effects of *Cirsium japonicum* in mice, possibly through modulation of the GABA A receptor. Archives of pharmacal research, 37(2), 263-269.
37. **de la Peña, J. B. I.**, dela Peña, I. J. I., Lee, H. L., dela Peña, I., Shin, C. Y., Sohn, A. R., & Cheong, J. H. (2013). Pre-exposure to ethanol, but not to caffeine and nicotine, induced place preference and self-administration of the NMDA receptor antagonist-benzodiazepine combination, Zoletil®. Pharmacology Biochemistry and Behavior, 110, 231-237.
38. Liu, X., Hong, S. I., Park, S. J., **dela Peña, J. B.**, Che, H., Yoon, S. Y., ... & Geyer, M. A. (2013). The ameliorating effects of 5, 7-dihydroxy-6-methoxy-2 (4-phenoxyphenyl)-4H-chromene-4-one, an oroxylin A derivative, against memory impairment and sensorimotor gating deficit in mice. Archives of pharmacal research, 36(7), 854-863.

39. **de la Pena, J. B. I.**, Lee, H. L., Yoon, S. Y., Kim, G. H., Lee, Y. S., & Cheong, J. H. (2013). The involvement of magnoflorine in the sedative and anxiolytic effects of *Sinomeni Caulis et Rhizoma* in mice. Journal of natural medicines, 67(4), 814-821.
40. dela Peña, I. J. I., Lee, H. L., Yoon, S. Y., **de la Peña, J. B. I.**, Kim, K. H., Hong, E. Y., & Cheong, J. H. (2013). The ethanol extract of *Cirsium japonicum* increased chloride ion influx through stimulating GABAA receptor in human neuroblastoma cells and exhibited anxiolytic-like effects in mice. Drug Discoveries & Therapeutics, 7(1), 18-23.
41. **de la Pena, J. B. I.**, Yoon, S. Y., Ike, C., Lee, H. L., de la Pena, I. J. I., & Cheong, J. H. (2013). Pre-exposure to related substances induced place preference and self-administration of the NMDA receptor antagonist–benzodiazepine combination, zoletil. Behavioural pharmacology, 24(1), 20-28.
42. **de la Peña, J. B. I.**, Lee, H. C., Ike, C., Woo, T. S., Yoon, S. Y., Lee, H. L., ... & Cheong, J. H. (2012). Rewarding and reinforcing effects of the NMDA receptor antagonist–benzodiazepine combination, zoletil®: Difference between acute and repeated exposure. Behavioural Brain Research, 233(2), 434-442.
43. dela Peña, I., Yoon, S. Y., Lee, J. C., **de la Peña, J. B.**, Sohn, A. R., Ryu, J. H., ... & Cheong, J. H. (2012). Methylphenidate treatment in the spontaneously hypertensive rat: influence on methylphenidate self-administration and reinstatement in comparison with Wistar rats. Psychopharmacology, 221(2), 217-226.

Research articles under review

1. Barragan-Iglesias, P.*, **de la Peña, J. B.***, Lou, T.F.*, Loerch, S., Kunder, N., Shukla, T., Basavarajappa, L., Song, J., Megat, S., Moy, J. and Wangzhou, A., 2020. Intercellular Arc signaling regulates vasodilation. Journal of Neuroscience
2. **de la Peña, J. B.**, Kunder, N., Lou, T.F., Chase R.L., Stanowick A., Barragan-Iglesias, P.... Campbell Z.T., 2020. A Role for Translational Regulation by S6 Kinase and a Downstream Target in Inflammatory Pain. British Journal of Pharmacology

*co-first author

Seminars and Presentations

Oral presentations

- | | |
|------|---|
| 2021 | Texas Pain Research Highlights 2021. <i>The impact of inflammatory mediators on the landscape of nascent translation in the dorsal root ganglion</i> . Online conference |
| 2020 | US Association for the Study of Pain (USASP) Meeting. <i>The impact of inflammatory mediators on the landscape of nascent translation in the dorsal root ganglion</i> . Online conference |
| 2018 | Konkuk University, School of Medicine. <i>Rapid changes in translation shape acute pain behavioral responses</i> . Seoul, South Korea |
| 2018 | Kyunghee University, College of Pharmacy. <i>Rapid changes in translation shape acute pain behavioral responses</i> . Seoul, South Korea |
| 2018 | Sahmyook University, College of Pharmacy. <i>Rapid changes in translation shape acute pain behavioral responses</i> . Seoul, South Korea |
| 2015 | The Japanese Society for the Study of Xenobiotics, Annual Meeting. <i>A new transgenic mouse model of the hyperactive endophenotype of ADHD</i> . Tokyo, Japan |

- 2015 Filipino Scholars in Korea (PIKO) 2nd Biomedical Colloquium. *A transgenic mouse showing sustained hyperactivity: a possible animal model of ADHD*. Seoul, South Korea

Poster presentations

- 2019 Society for Neuroscience (SFN) Annual Meeting. *Riboregulation of the essential translation initiation scaffold eIF4G as a strategy to attenuate mechanical hyperalgesia*. Chicago, IL
- 2018 Translational Control Meeting. *Mechanistic insights into translational controls that drive chemotherapy-induced peripheral neuropathy*. Cold Spring Harbor Laboratory, NY
- 2016 Federation of European Neuroscience Societies (FENS). *The rewarding and reinforcing effects of methoxetamine, a ketamine derivative*. Copenhagen, Denmark
- 2015 World Federation of ADHD, International Congress. *Shared prefrontal cortical gene expression profiles in "impulsive" SHR and Wistar rats: Effects of atomoxetine*. Glasgow, Scotland
- 2014 The International College of Neuropsychopharmacology (CINP), World Congress. *The addictive potential of nicotine in tobacco smoke-naïve or pre-exposed adolescent and adult rats*. Vancouver, Canada
- 2013 Society for Neuroscience (SFN), Annual Meeting. *Rewarding and reinforcing effects of nicotine in adolescent and adult rats: Difference in response to prior nicotine exposure.* San Diego, California
- 2012 Society for Neuroscience (SFN), Annual Meeting. *Rewarding and reinforcing effects of the NMDA receptor antagonist- benzodiazepine combination, Zoletil®*. New Orleans, Louisiana
- 2011-2017 The Pharmaceutical Society of Korea (PSK), International Conventions. Has regularly presented a poster in the Spring and Fall conventions of PSK in various locations in South Korea.
- 2011-2017 Korean Society of Applied Pharmacology (KSAP) Workshops and Conference. Has regularly presented a poster in the Spring and Fall conventions of KSAP in various locations in South Korea

Teaching and mentoring experience

The University of Texas at Dallas

- 2017-present Research mentor for numerous graduate and undergraduate students
- 2019 (Fall) Guest lecturer – Molecular Biology – core course for graduate students in the Department of Biological Sciences
- 2018 (Fall) Guest lecturer – Molecular Biology – core course for graduate students in the Department of Biological Sciences

Sahmyook University

- 2017 (Spring) Lecturer – 2000873 - Neuropharmacology II – core course for graduate students in the Department of Pharmacology
- 2016 (Fall) Lecturer and course coordinator – 2000865 - Methods for Neuroscience Research – core course for graduate students in the Department of Pharmacology

Service

2017- present *Ad Hoc* journal reviewer
Neurobiology of Pain, PAIN, Molecular Biology of Pain, Neuropharmacology,
Scientific Reports, Psychopharmacology

References

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The CV submitted is current and correct as of the date of this signature.

Signature:



Date: July 5, 2021