

# WORLD NEUROSCIENCE SUMMIT

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## Rodent Anesthesia – Art or Science?

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Anesthesia is a significant component to rodent neuroscience research, with analgesia being the most common adjunct providing balanced anesthesia and postoperative analgesia. Anesthesia is a consideration for noninvasive (i.e., imaging, injection, etc) and invasive (i.e., cranial implantation, laparotomy, thoracotomy etc) procedures. There is always an art and science involving rodent anesthesia. Anesthetists should plan anesthesia from the beginning to the end, including the postprocedural phase. While a frequently used anesthetic protocol may work well, occasionally unexpected complications arise necessitating quick adjustments to anesthetic depth and patient support are required. The purpose of this seminar is to deliberate the science of mouse anesthesia together with the art of applying these anesthetic and patient adjustment techniques to provide audiences with the knowledge needed for successful anesthetic procedures from start to finish.

### **Biography**

Dr. Pacharinsak is an Assistant Professor and Director of Veterinary Anesthesia, Analgesia, and Surgery at Stanford University's Department of Comparative Medicine at Stanford University; he is a Diplomate of the American College of Veterinary Anesthesia and Analgesia (DACVAA). He received his DVM from Chulalongkorn University, Thailand and trained in an Anesthesiology and Pain Management residency program and received his Master's degree at Washington State University. He completed his PhD in Pain Neuroscience from the University of Minnesota. Prior to arriving at Stanford, Dr. Pacharinsak was a faculty member in Anesthesiology and Pain Management at Michigan State University and Purdue University; and served as a Clinical Specialist at UCLA.