

Nicholas Gregory

Instructor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Pain Management**

300 Pasteur Dr Rm A408

MC 5340

Stanford, CA 94305

Tel (650) 498-6787 **Fax** (650) 721-3417

Bio

CLINICAL FOCUS

- Anesthesia

ACADEMIC APPOINTMENTS

- Instructor, Anesthesiology, Perioperative and Pain Medicine

PROFESSIONAL EDUCATION

- Board Certification: Pain Medicine, American Board of Anesthesiology (2024)
- Board Certification: Anesthesia, American Board of Anesthesiology (2024)
- Residency: Washington University Barnes Jewish Anesthesiology Residency (2019) MO
- Fellowship: Stanford University Pain Management Fellowship (2020) CA
- Medical Education: University of Iowa Carver College of Medicine (2015) IA

Publications

PUBLICATIONS

- **No evidence of immediate or persistent analgesic effect from a single dose of psilocybin in three mouse models of pain.** *Nature communications*
Gregory, N. S., Girard, T. E., Ram, A., Casey, A. B., Malenka, R. C., Tawfik, V. L., Heifets, B. D.
2026
- **Psilocybin has no immediate or persistent analgesic effect in acute and chronic mouse pain models.** *bioRxiv : the preprint server for biology*
Gregory, N. S., Girard, T. E., Ram, A., Casey, A. B., Malenka, R. C., Tawfik, V. L., Heifets, B. D.
2025
- **Ketamine evokes acute behavioral effects via μ -opioid receptor expressing neurons of the central amygdala.** *Biological psychiatry*
Pomrenze, M. B., Vaillancourt, S., Llorach, P., Rijsketic, D. R., Casey, A. B., Gregory, N., Zhao, W., Girard, T. E., Mattox, K. T., Salgado, J. S., Malenka, R. C., Heifets, B. D.
2025
- **Psilocybin Has No Analgesic Properties in Multiple Mouse Models of Acute and Chronic Pain**
Gregory, N., Girard, T., Ram, A., Casey, A., Tawfik, V., Malenka, R., Heifets, B.
LIPPINCOTT WILLIAMS & WILKINS.2025: 652

- **Psilocybin Has No Analgesic Properties in Multiple Mouse Models of Acute and Chronic Pain**
Gregory, N. S., Girard, T. E., Ram, A., Casey, A. B., Malenka, R. C., Tawfik, V. L., Heifets, B. D.
CHURCHILL LIVINGSTONE.2025
- **Widespread Muscle Pain, But Not Paw Inflammation, Reduces Motivation and Active Coping Strategies in Mice**
Gregory, N., Heifets, B.
LIPPINCOTT WILLIAMS & WILKINS.2024: 515-517
- **Opioid receptor expressing neurons of the central amygdala gate behavioral effects of ketamine in mice.** *bioRxiv : the preprint server for biology*
Pomrenze, M. B., Vaillancourt, S., Llorach, P., Rijsketic, D. R., Casey, A. B., Gregory, N., Salgado, J. S., Malenka, R. C., Heifets, B. D.
2024
- **Peripheral Nerve Stimulation for Pudendal Neuralgia: A Technical Note.** *Pain medicine (Malden, Mass.)*
Gregory, N. S., Terkawi, A. S., Prabhakar, N. K., Tran, J. V., Salmasi, V., Hah, J. M.
2020; 21 (Supplement_1): S51–S55
- **P2X4 Receptors on Muscle Macrophages Are Required for Development of Hyperalgesia in an Animal Model of Activity-Induced Muscle Pain** *MOLECULAR NEUROBIOLOGY*
Oliveira-Fusaro, M., Gregory, N. S., Kolker, S. J., Rasmussen, L., Allen, L. H., Sluka, K. A.
2020; 57 (4): 1917-1929
- **Acid Sensing Ion Channel 1a (ASIC1a) Mediates Activity-induced Pain by Modulation of Heteromeric ASIC Channel Kinetics** *NEUROSCIENCE*
Gregory, N. S., Gautam, M., Benson, C. J., Sluka, K. A.
2018; 386: 166-174
- **ASIC3 Is Required for Development of Fatigue-Induced Hyperalgesia** *MOLECULAR NEUROBIOLOGY*
Gregory, N. S., Brito, R. G., Oliveira Fusaro, M. G., Sluka, K. A.
2016; 53 (2): 1020-1030
- **Regular physical activity prevents chronic pain by altering resident muscle macrophage phenotype and increasing interleukin-10 in mice** *PAIN*
Leung, A., Gregory, N. S., Allen, L. H., Sluka, K. A.
2016; 157 (1): 70-79
- **Effect of Intramuscular Protons, Lactate, and ATP on Muscle Hyperalgesia in Rats** *PLOS ONE*
Gregory, N. S., Whitley, P. E., Sluka, K. A.
2015; 10 (9): e0138576
- **The dichotomized role for acid sensing ion channels in musculoskeletal pain and inflammation** *NEUROPHARMACOLOGY*
Sluka, K. A., Gregory, N. S.
2015; 94: 58-63
- **Anatomical and physiological factors contributing to chronic muscle pain.** *Current topics in behavioral neurosciences*
Gregory, N. S., Sluka, K. A.
2014; 20: 327-48
- **Fatigue-enhanced hyperalgesia in response to muscle insult: Induction and development occur in a sex-dependent manner** *PAIN*
Gregory, N. S., Gibson-Corley, K., Frey-Law, L., Sluka, K. A.
2013; 154 (12): 2668-2676
- **An Overview of Animal Models of Pain: Disease Models and Outcome Measures** *JOURNAL OF PAIN*
Gregory, N. S., Harris, A. L., Robinson, C. R., Dougherty, P. M., Fuchs, P. N., Sluka, K. A.
2013; 14 (11): 1255-1269