


## Sean Mackey, M.D., Ph.D.

Redlich Professor, Professor of Anesthesiology, Perioperative, and Pain Medicine (Adult Pain) and, by courtesy, of Neurology and Neurological Sciences

Anesthesiology, Perioperative and Pain Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Stanford Pain Management Center**

450 Broadway St

Pavilion A 1st Fl MC 5340

Redwood City, CA 94063

**Tel** (650) 723-6238     **Fax** (650) 721-3417

### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Wendy M. Schadle - Executive Assistant

**Email** [wendy3@stanford.edu](mailto:wendy3@stanford.edu)

## Bio

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### BIO

I am the Redlich Professor and Chief of the Division of Stanford Pain Medicine. I am a physician-scientist trained and experienced in neuroimaging, psychophysics, public health, health policy, patient outcomes, and medical education. I am guided by our group's mission—"To Predict, Prevent and Alleviate Pain"—which encompasses my three primary goals:

1. Define the factors that cause pain to become chronic after injury or surgery.
2. Discover and implement novel methods to prevent the persistence or chronification of pain.
3. Discover and test novel therapies to alleviate chronic pain.

This vision informs the multidisciplinary group I have assembled and the tools my team and I use: advanced neuroimaging, psychophysical and neurobehavioral assessments, genomics, patient- and clinician-reported outcomes, and assessment of pro-inflammatory cytokines.

I have served as principal investigator on multiple NIH awards (P01, multiple R01s, U01, K24, T32). Additionally, I hold two endowments that provide flexible research funds to pursue innovative projects and support our junior investigators. I am the author of more than 200 journal articles and book chapters and have delivered numerous national and international lectures. Broadly, my current research falls into two categories:

1. Characterizing CNS mechanisms of the human pain experience and its modulation, and using this information to develop biomarkers.
2. Developing and utilizing an open-source learning healthcare system (CHOIR; <http://choir.stanford.edu>) to transform pain care and serve as a platform for innovative research in real-world clinical settings.

Additionally, we are investigating novel therapies for pain, including transcranial magnetic stimulation, virtual reality, and psychological and pharmacological therapies.

**Clinical:** Under my leadership, the Stanford Pain Management Center has been twice designated a Center of Excellence by the American Pain Society for our innovative, comprehensive, interdisciplinary, outcomes-based care. We have one of the largest academic pain centers in the country—Stanford Pain Management Center (<https://med.stanford.edu/pain.html>)—with multiple physicians from different disciplines, psychologists, physical therapists, nurses, nutritionists, and other professionals working together to understand and treat people in pain.

**Mentorship:** I am the program director for our NIH T32 postdoctoral training program, “Interdisciplinary Training in Pain and/or Substance Use Disorders.” I also hold an NIH K24 award that supports mentoring and the development of junior investigators. I have a long track record of mentoring researchers and clinicians as they build successful careers.

**Leadership:** I am a past president of the American Academy of Pain Medicine. I co-authored the Institute of Medicine’s report *Relieving Pain in America* and served as co-chair of the Oversight Committee for the HHS/NIH National Pain Strategy—an effort to establish a national health strategy for pain care, education, and research. I have received multiple awards for leadership, teaching, research, and clinical care.

## **CLINICAL FOCUS**

- Chronic Pain
- Pain Management
- Pain Medicine
- Neuropathic Pain
- Complex Regional Pain Syndrome
- Back Pain
- Acute Pain
- reflex sympathetic dystrophy
- Facial Pain
- Headache

## **ACADEMIC APPOINTMENTS**

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine
- Professor - University Medical Line (By courtesy), Neurology and Neurological Sciences
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

## **ADMINISTRATIVE APPOINTMENTS**

- Associate Vice Chair for Clinical Science, Anesthesia & Pain Management, Neurosciences and (by courtesy) Neurology, Stanford University, (2022-present)
- Redlich Professor, Anesthesia & Pain Management, Neurosciences and (by courtesy) Neurology, Stanford University, (2012- present)
- Chief, Division of Pain Medicine, Stanford University, (2007- present)
- Fellowship Program Director, Pain Medicine, Stanford University, (2007- present)
- Associate Professor, Anesthesia & Pain Management, Neurosciences and (by courtesy) Neurology, Stanford University, (2007-2012)

- Co-Director, Pain Working Group, Neuroscience Institute, Stanford University, (2005- present)
- Co-Director, Stanford Pain Research and Clinical Center (SPARCC), (2004- present)
- Associate Director, Pain Management Division, Stanford University, (2004-2007)
- Director, Stanford Systems Neuroscience and Pain Lab (SNAPL), (2002- present)
- Director (and Co-Founder), Regional Anesthesia Services, (2000-2006)
- Assistant Professor, Anesthesia & Pain Management, Neurosciences, Stanford University, (1999-2007)

## HONORS AND AWARDS

- Inaugural Inductee as USASP Fellow, United States Association for the Study of Pain (USASP) (2025)
- Helrich Lecture Award, Foundation for Anesthesia Education & Research (FAER) (2024)
- James E. Carter Memorial Award, International Pelvic Pain Society (IPPS) (2024)
- Founders Award, American Academy of Pain Medicine (2022)
- Robert G. Addison, MD Award, American Academy of Pain Medicine (2020)
- Pain Medicine Fellowship Excellence Award, American Academy of Pain Medicine (2019)
- Presidential Commendation, American Academy of Pain Medicine (2019)
- Distinguished Service Award, American Academy of Pain Medicine (2017)
- Pain Medicine Fellowship Award, American Academy of Pain Medicine (2017)
- Wilbert E. Fordyce Clinical Investigator Award, American Pain Society (2016)
- NIH Directors Award, National Institutes of Health (2015)
- Clinical Center of Excellence, American Pain Society (2012)
- Presidential Commendation, American Academy of Pain Medicine (2012)
- U.S. News and World Report Top 1% of Pain Management Specialists, U.S. News and World Report (2012)
- Stanford CAM Center for Chronic Back Pain, NIH P01 AT006651 (2011-2016)
- Stanford CAM Center for Chronic Back Pain Supplement, NIH P01 AT006651S1 (2011-2012)
- Neuroimaging and Mentoring in Translational Pain Research, NIH K24 DA029262 (2010-2015)
- Ellis Cohen Achievement Award, Department of Anesthesia, Stanford University (2010)
- Chris Redlich Endowment in Pain Research, Chris Redlich Endowment Fund (2009-forever)
- Learned Control of Frontal and Limbic Systems via Real-Time fMRI, NIH R21 DA026092 (2009-2011)
- Development and Applications of Real Time fMRI Technology, Stanford Bio-X (2009-2010)
- Central Mechanisms of Urologic Pelvic Pain: Functional and Structural Analysis by MRI, NIH U01 DK082316 (2008-2013)
- Prescription Opioid Use, Misuse, and Pain in Post-Surgical Patients, NIH K23 DA25152 (2008-2013)
- Low-Dose Naltrexone in the Treatment of Fibromyalgia, American Fibromyalgia Syndrome Association (2008-2009)
- Mechanisms of Opioid-Induced Hyperalgesia in Pain Patients: Examination via fMRI, NIH K99/R00 DA023609 (2007-2011)
- Mechanisms of Analgesic Response During IV Lidocaine Infusion in Neuropathic Pain Patients, Foundation for Anesthesia Education and Research (2007-2008)
- fMRI of Pain in the Human Spinal Cord, NIH R01 NS053961 (2006-2010)
- Duloxetine: Functional MRI Neural Correlates of Efficacy in Patients with Chronic Low Back Pain, Eli Lilly (2006-2009)
- Fellowship Grant, Arthritis Foundation (2006-2007)
- Applications of Real Time fMRI-Phase II, NIH R44 NS050642 (2004-2007)
- Imaging Neural Systems in Complex Regional Pain Syndrome, Foundation for Anesthesia Education & Research (2004-2006)

- Teacher of the Month, Stanford Department of Anesthesia (2003)
- Applications of Real Time fMRI, NIH R43MH067290 (2002-2004)
- Top Doctors in America, Published in "Guide to Top Doctors" (2002, 2004-2006, 2008, 2010, 2012-2015)
- Processing of Pain in the Human Central Nervous System: Analysis through fMRI, Stanford Office of Technology Licensing Grant (2001-2004)
- Use of NMDA-Antagonists and Opiates in the Treatment of Fibromyalgia, Oxnard Foundation (2001-2004)
- Dodie and John Rosekrans Pain Research Endowment Fund, Dodie and John Rosekrans Pain Research Endowment Fund (2001 - forever)
- Cognitive Neurosciences Grant, Clark Center for Bioengineering, Biomedicine & Bioscience (2000)
- Development of a Human Neuropathic Pain Model, Stanford University (1999-2007)
- Interventional Magnetic Resonance Imaging Applied to Regional Anesthesia and Pain Medicine, Stanford University (1999-2003)
- Electrical and Thermal Characterization of Radiofrequency Catheter Ablation, American College of Cardiology Research Grant (1994)
- TV Catheter Delivery of Elec Energy to Ablate Arrhythmogenic Tissue..., Alpha Omega Alpha Honor Society Research Fellowship (1991-1992)
- Characterization & Optimization of RF Catheter Ablation for the Treatment of Cardiac Arrhythmias, American Heart Association Fellowship (1990-1991)
- Optimal Control of Transvenous Catheter Ablation in the Treatment of Tachyarrhythmias, NIH Short Term Research Fellowship (1989-1994)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Nominating Committee, American Academy of Pain Medicine (2020 - present)
- Advisory Board Member HSRD Naloxone Distribution IIR, Veterans Affairs (VA) (2020 - 2020)
- Invited Member, FDA & Center for Devices & Radiological Health (CDRH) (2020 - 2020)
- Steering Group, Pain Registries SIG, International Association for the Study of Pain (IASP) (2020 - 2020)
- Technical Expert Panel Member PCOR TEP Pain/LOUD, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (2020 - 2020)
- Council Member, Council on Science & Public Health, (CMA) (2019 - present)
- Vice-Chair - Committee on Temporomandibular Disorders (TMD), National Academies of Sciences, National Institutes of Health, (NAS)/(NIH) (2019 - 2020)
- Delegate, California Medical Association, (CMA) (2018 - present)
- Advisory Committee Member, Drug Safety & Risk Mngt, Anesthetic & Analgesic Drug Products Advisory Comm (DSaRM/AADPAC)/(FDA) (2018 - 2019)
- Committee Member, Committee on Electronic Media & Informatics Technology (EMIT), ASA (2018 - 2018)
- Committee Member Innovations in Medical Devices to Prevent Opioid Use Disorder (LOUD), Analgesic, Anesthetic, & Addiction Clinical Trial Translations, Innovations, Opportunities, & Networks (ACTTION) (2018 - 2018)
- Reviewer, American Society of Anesthesiologists Committee on Research (ASA) (2017 - present)
- Committee Member - Marshaling Physician Leadership to Counter Opioid Epidemic, National Academy of Medicine (2017 - 2017)
- Oversight Committee, Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovations, Opportunities, and Networks (2017 - 2017)
- Panelist, National Academies of Sciences, Engineering, and Medicine (2017 - 2017)
- Working Group Member to add Pain and Opioid questions to National Health Interview Survey, Centers for Disease Control and Prevention (CDC) (2016 - 2017)
- Board Member, The Association of Pain Program Directors (2015 - present)
- Immediate Past-President, American Academy of Pain Medicine (2015 - 2016)
- Panelist - Healthy People 2020 Chronic Pain Workgroup, National Institute of Health (NIH) (2014 - 2016)
- President, American Academy of Pain Medicine (2014 - 2015)
- Committee Member, National Comprehensive Cancer Network, Adult Cancer Pain Committee (2013 - present)
- Co-Chair - Prevention and Care Working Group, National Pain Strategy Task Force (NPSTF) (2013 - 2016)

- Member - Pain Consortium Chronic Low Back Pain Research Task Force, National Institute of Health (NIH) (2013 - 2014)
- Chair, Department of Anesthesia; Stanford School of Medicine, Faculty & Development and Mentoring Committee (2013 - 2013)
- Committee Member, Department of Anesthesia; Stanford School of Medicine, Finance Committee (2012 - present)
- Co-Chair, National Pain Strategy Task Force (NPSTF) (2012 - 2016)
- Member - Inter agency Pain Research Coordinating Committee, National Institute of Health (NIH) (2012 - 2013)
- Co-Chair Annual Meeting, American Academy of Pain Medicine (2012 - 2012)
- Vice President Scientific Affairs, American Academy of Pain Medicine (2011 - 2013)
- Committee Member & Author, Institute of Medicine (IOM) (2010 - 2011)
- Member, American Academy of Pain Research Committee (2009 - present)
- Member - CME Oversight Committee, American Academy of Pain Medicine (2009 - present)
- Member, American Academy of Pain Medicine Executive Committee (2009 - 2015)
- Member, American Pain Society Nominating Committee (2009 - 2011)
- Member - Appointments & Promotions Committee, Department of Anesthesia; Stanford School of Medicine (2008 - present)
- Director at Large, American Academy of Pain Medicine (2008 - 2015)
- Committee Member, California Department of Workers Compensation (2007 - present)
- Member - Research Committee, Department of Anesthesia; Stanford School of Medicine (2005 - present)
- Member - Neuroscience Committee, Stanford University, Neuroscience (2004 - present)
- Member - Governance Committee, Department of Anesthesia; Stanford School of Medicine (2003 - present)
- Member - Residency Selection Committee, Department of Anesthesia; Stanford School of Medicine (1999 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (1999)
- Fellowship: Stanford University Pain Management Fellowship (1999) CA
- Residency: Stanford University Anesthesiology Residency (1998) CA
- Medical Education: University of Arizona College of Medicine Office of the Registrar (1994) AZ
- Internship: Tucson Medical Center Medical Education Program (1995) AZ
- Board Certification: Pain Management, American Board of Anesthesiology (2000)
- M.D., University of Arizona , Medicine (1994)
- Ph.D., University of Arizona , Electrical Engineering (1994)
- M.S.E, University of Pennsylvania , Bioengineering (1986)
- B.S.E., University of Pennsylvania , Bioengineering (1986)

## PATENTS

- Sean Mackey, Ian Carroll, David Clark. "United States Patent 2005072433 Toxin Induced Sympathectomy", Jan 26, 2004
- Sean Mackey. "United States Patent 5837001 Radio Frequency Energy Delivery System for Multipolar Electrode Catheters", Nov 17, 1998

## LINKS

- X/Twitter: <https://x.com/DrSeanMackey>
- Lab Website: <http://med.stanford.edu/pain/snapl.html>
- Personal Site: <https://drseanmackey.com>
- ResearchGate: [https://www.researchgate.net/profile/Sean\\_Mackey](https://www.researchgate.net/profile/Sean_Mackey)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I have several NIH funded projects ongoing and a large number of additional studies funded by philanthropy. Some, but not all of these include the following:

Characterization of central pain mechanisms using simultaneous spinal cord-brain functional imaging. NIH R01 (Mackey- PI) funded effort to use simultaneous fMRI of the spinal cord, brainstem and brain to understand the CNS mechanisms of pain and develop objective biomarkers.

Comparative Effectiveness of Pain Cognitive Behavioral Therapy and Chronic Pain Self-Management within the Context of Opioid Reduction - PCORI (PI-Darnall; Co-I Mackey) The EMPOWER study is a multisite pragmatic clinical trial conducted in 4 Western states in primary care and pain clinics. The goal is to help physicians and patients with chronic pain safely and effectively reduce opioid use. We will compare two evidence based group behavioral treatment classes (cognitive behavioral therapy and chronic pain self management) to facilitate opioid and pain reduction within the context of a patient-centered opioid tapering program. Total N = 1300 patients.

Single Session Pain Catastrophizing Treatment: Comparative Efficacy & Mechanisms

NIH R01 (Multi-PI: Darnall & Mackey): This project seeks to understand mechanisms of pain catastrophizing and optimize rapid delivery of targeted treatment. This comparative effectiveness trial studies a single-session 2-hour class developed to treat pain catastrophizing

Development and Implementation of an Open-Source Learning Healthcare System. I have developed and implemented CHOIR ([http://choir/stanford.edu](http://choir.stanford.edu)) to optimize pain care and serve as a platform for innovative research in real-world patients. We have published over 25 manuscripts using CHOIR with novel discoveries we have translated into improved patient care. Furthermore, we have disseminated CHOIR to multiple US and international sites with a collaborative network.

Stanford Center for Low Back Pain (PI: Mackey). This is an NIH P01 center grant funded effort to characterize the central mechanisms and predictors of treatment for several treatments for chronic back pain including cognitive behavioral therapy, mindfulness based stress reduction and acupuncture. We have deeply characterized several hundred patients pre-post treatment with data currently under analysis.

We have multiple additional projects including those involving transcranial magnetic stimulation, virtual reality, novel pharmacologic and psychological therapies, health policy research, patient- and clinician-reported outcomes and many others.

Please disregard the Clinical Trials section below. It is incorrectly pulling outdated information from sources unknown. In fact, several of the trials below incorrectly list my involvement or are closed. We have approximately 20 clinical trials ongoing in the Stanford Systems Neuroscience and Pain Lab. Please reach out to us for further details.

### CLINICAL TRIALS

- Biomarker , Recruiting
- Low-Dose Naltrexone for the Treatment of Complex Regional Pain Syndrome, Recruiting
- TMS for Complex Regional Pain Syndrome, Recruiting
- Acupuncture and Pain Processing, Not Recruiting

- Applications of Realtime Functional Magnetic Resonance Imaging (fMRI ), Not Recruiting
- Imaging Study of Chronic Low Back Pain in Patients Taking Pain Medication, Not Recruiting
- Single Session Pain Psychology Treatment: Comparative Efficacy & Mechanisms, Not Recruiting
- Stanford Center for Back Pain, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Troy Dildine, Mahbaneh Eshaghzadeh Torbati, Yasha Iravantchi, Merve Kaptan, Samsuk Kim, Dario Pfyffer, Yiyu Wang, Chisondi Warioba

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)
- Bioengineering (Phd Program)
- Neurosciences (Phd Program)

## Publications

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### PUBLICATIONS

- **Evaluation of PROMIS Sleep Disturbance Item Bank for Postpartum Insomnia Disorder Screening**  
Hidajat, N., Takenoshita, M., Michel, G., Jalali-Sohi, A., Manber, R., Lyell, D., Mhyre, J., Cella, D., Shaunfield, S., Mackey, S., Tian, L., Carmichael, S., Tang, et al  
OXFORD UNIV PRESS INC.2026: A184
- **Single-session, virtual, pain relief skills class for adults with chronic pain on long-term opioids: A randomized controlled trial.** *The journal of pain*  
Ziadni, M. S., Herrick, A., Sturgeon, J. A., Salmasi, V., Darnall, B. D., Mackey, S.  
2026: 106286
- **Ecological Momentary Assessments of daily pain experiences in bothersome and high-impact chronic pain.** *medRxiv : the preprint server for health sciences*  
Walentynowicz, M., Junghaenel, D. U., Mackey, S. C., Von Korff, M., Stone, A. A.  
2026
- **Spatial distribution of spinal cord fMRI activity with electrocutaneous stimulation.** *medRxiv : the preprint server for health sciences*  
Bédard, S., Kaptan, M., Indriolo, T., Law, C. S., Pfyffer, D., Lee, L., Ratliff, J., Hu, S., Tharin, S., Smith, Z. A., Glover, G. H., Mackey, S., Cohen-Adad, et al  
2026
- **Differential Encoding of Noxious Heat and Self-Reported Pain Along Corticospinal Networks: A Simultaneous Brain-Spinal Cord Functional Magnetic Resonance Imaging Study**  
Pfyffer, D., Wang, Y., Kaptan, M., Fundaun, J., Dildine, T., Oliva, V., Indriolo, T., Li, K., Glover, G., Law, C., Mackey, S.  
CHURCHILL LIVINGSTONE.2026
- **Randomized Comparative Effectiveness Study of 1-Session vs. 8-Session Online Behavioral Treatment for Chronic Pain: Protocol for the national PROGRESS study.** *Pain medicine (Malden, Mass.)*  
Adair Monson, E., Mardian, A., Saxena, K., Dorsonne, B., Hailu, A. Y., Heggan, E., Riazi, G., Slater, K., Poupore-King, H., Clifton, J., Perez, L., Tian, L., Porter, et al  
2026
- **Yes, anger and injustice are important for the study and treatment of chronic pain - A response to Umasugi.** *The journal of pain*  
Gilam, G., Granjon, M., Mackey, S. C., Vest, N.  
2026: 106210

- **Beyond Headache: Non-cephalic Pain, Fatigue, and Post-Traumatic Stress Symptoms as Longitudinal Predictors of Chronic Migraine Outcomes.** *Pain medicine (Malden, Mass.)*  
Sturgeon, J. A., Vest, N., Barad, M., Darnall, B., Mackey, S.  
2025
- **Distinct multidimensional anger profiles predict current and long-term chronic pain outcomes.** *The journal of pain*  
Granjon, M., Vest, N., Mackey, S. C., Gilam, G.  
2025: 105611
- **Bridging the medical-dental divide: a public health imperative for temporomandibular disorders.** *BMC global and public health*  
Prodoehl, J., Cowley, A., Durham, J., Lodes, M., Rindal, B., Mackey, S.  
2025; 3 (1): 97
- **Digital twin learning health systems and multimodal biomarkers transform pain care.** *Pain*  
Mackey, S., Darnall, B., Kao, M. C.  
2025; 166 (11S): S106-S110
- **Differential encoding of noxious heat and self-reported pain along corticospinal networks: a simultaneous spinal cord-brain fMRI study.** *bioRxiv : the preprint server for biology*  
Pfyffer, D., Wang, Y., Kaptan, M., Fundaun, J., Dildine, T. C., Oliva, V., Indriolo, T., Skare, S., Sprenger, T., Lee, P. K., Truong, M., Weber, K. A., Glover, et al  
2025
- **Automated Segmentation of Forearm Muscles: Clinical Associations With Hand Function, Muscle Volume and Intramuscular Fat.** *JCSM communications*  
Fundaun, J., Oliva, V., Bédard, S., Wesselink, E. O., Lynn, B. P., Pai S, A., Pfyffer, D., Kaptan, M., Berhe, N., Ratliff, J., Hu, S. S., Smith, Z. A., Hastie, et al  
2025; 8 (2): e70015
- **Mapping hand function with simultaneous brain-spinal cord functional MRI.** *Imaging neuroscience (Cambridge, Mass.)*  
Oliva, V., Bédard, S., Kaptan, M., Pfyffer, D., Chy, B., Aufrechtig, S., Berhe, N., Chaudhari, A. S., Tharin, S., Hu, S. S., Ratliff, J., Smith, Z. A., Smith, et al  
2025; 3
- **EPISeg: Automated segmentation of the spinal cord on echo planar images using open-access multi-center data.** *Imaging neuroscience (Cambridge, Mass.)*  
Banerjee, R., Kaptan, M., Tinnermann, A., Khatibi, A., Dabbagh, A., Büchel, C., Kündig, C. W., Law, C. S., Pfyffer, D., Lythgoe, D. J., Tsivaka, D., Van De Ville, D., Eippert, et al  
2025; 3
- **Real-world data and evidence in pain research: an IMPACT comprehensive review and best practice recommendations.** *Pain*  
Vollert, J., Spivack, J., Adamson, B., Baron, R., Farrar, J. T., Gilron, I., Hohenschurz-Schmidt, D., Kerns, R. D., Mackey, S., Markman, J. D., McDermott, M. P., Parides, M., Rice, et al  
2025
- **Defining chronic pain impact levels: a patient-clinician approach using PROMIS pain interference scores.** *Journal of patient-reported outcomes*  
Cook, K. F., You, D. S., Korff, M. V., Mackey, S. C.  
2025; 9 (1): 103
- **Baseline characteristics of participants in the Biomarkers for Evaluating Spine Treatments clinical trial: a sequential multiple assignment randomized trial for chronic low back pain†.** *Pain medicine (Malden, Mass.)*  
Rowland, B., Barth, K. S., Bell, K. M., Brooks, A. K., Chadwick, A. L., Cleven, A., Hurley, R. W., Mackey, S., Patel, K. V., Piva, S. R., Schneider, M. J., Al-Kadhi, F., Asante-Nketiah, et al  
2025
- **Adult Cancer Pain, Version 2.2025** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*  
Swarm, R. A., Youngwerth, J. M., Agne, J. L., Anitescu, M., Are, M., Buga, S., Butler, T., Chwistek, M., Cleary, J., Copenhaver, D., Coyne, C., Craig, D., Finnes, et al  
2025; 23 (7)

- **Association Between Opioid Use Disorder and Healthcare Spending and Utilization in Emergency Surgical Patients: A Retrospective Analysis Using Commercial Claims.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*  
Dixit, A. A., Lagisetty, P. A., Odden, M. C., Bicket, M. C., Humphreys, K. R., Mackey, S. C., Sun, E. C.  
2025; 6 (2): e568
- **Revealing sleep and pain reciprocity with wearables and machine learning.** *Communications medicine*  
Kim, S., Zeitzer, J. M., Mackey, S., Darnall, B. D.  
2025; 5 (1): 160
- **Body size and intracranial volume interact with the structure of the central nervous system: A multi-center in vivo neuroimaging study.** *Imaging neuroscience (Cambridge, Mass.)*  
Labounek, R., Bondy, M. T., Paulson, A. L., Bédard, S., Abramovic, M., Alonso-Ortiz, E., Atcheson, N. T., Barlow, L. R., Barry, R. L., Barth, M., Battiston, M., Büchel, C., Budde, et al  
2025; 3
- **Body size and intracranial volume interact with the structure of the central nervous system: A multi-center in vivo neuroimaging study** *IMAGING NEUROSCIENCE*  
Labounek, R., Bondy, M. T., Paulson, A. L., Bedard, S., Abramovic, M., Alonso-Ortiz, E., Atcheson, N. T., Barlow, L. R., Barry, R. L., Barth, M., Battiston, M., Buechel, C., Budde, et al  
2025; 3
- **Impact of Pain Self-Efficacy on Health Outcomes in High-Impact Chronic Pain: A Longitudinal Study.** *The Clinical journal of pain*  
You, D. S., Lannon, E., Kim, S., Dildine, T. C., Weber, K. A., Raney, E., Mackey, S. C.  
2025
- **Beyond pain intensity: Validating single-item pain bothersomeness measures.** *The journal of pain*  
Edwards, K. A., You, D. S., Lannon, E. W., Dildine, T. C., Darnall, B. D., Mackey, S. C.  
2025; 31: 105395
- **The Design and Rationale of the Biomarkers for Evaluating Spine Treatments (BEST) Trial: A Sequential Multiple Assignment Randomized Trial.** *Pain medicine (Malden, Mass.)*  
Mauck, M. C., Barth, K. S., Bell, K. M., Brooks, A. K., Chadwick, A. L., Gunn, C. A., Hurley, R. W., Ivanova, A., Piva, S. R., Schneider, M. J., Bailey, J. F., Bagaason, S., Batorsky, et al  
2025
- **Assessing Pain Distributions in Spinal Conditions using the CHOIR Body Map**  
Berhe, N., You, D., Jung, C., Weber, K., Mackey, S., Carmichael, J.  
CHURCHILL LIVINGSTONE.2025
- **Opioid Use May Enhance the Analgesic and Antidepressant Response to Ketamine: Preliminary Findings from a Small Observational Study**  
Lii, T., Salmasi, V., Heifets, B., Mackey, S.  
CHURCHILL LIVINGSTONE.2025: 54
- **Robust Peritraumatic Immune System Activation Improves Pain Recovery Following Traumatic Stress Exposure**  
Lii, T., Salmasi, V., Heifets, B., Mackey, S.  
CHURCHILL LIVINGSTONE.2025
- **Zoom-Delivered Empowered Relief for Chronic Pain: Observational Longitudinal Pilot Study Exploring Feasibility and Pain-Related Outcomes in Patients on Long-Term Opioids.** *JMIR formative research*  
Edwards, K. A., Dildine, T. C., You, D. S., Herrick, A. M., Darnall, B. D., Mackey, S. C., Ziadni, M. S.  
2025; 9: e68292
- **Innovations in acute and chronic pain biomarkers: enhancing diagnosis and personalized therapy.** *Regional anesthesia and pain medicine*  
Mackey, S., Aghaeepour, N., Gaudilliere, B., Kao, M. C., Kaptan, M., Lannon, E., Pfyffer, D., Weber, K.  
2025; 50 (2): 110-120
- **Clinician and researcher responses to the term pain catastrophizing and whether new terminology is needed: Content analysis of international, cross-sectional, qualitative survey data.** *The journal of pain*  
Boyd, H., You, D. S., Nguyen, A., Conroy, L., Ahuja, D., Chambers, C., Cowan, P., Cox, R., Crombez, G., Feinstein, A. B., Fuqua, A., Gilam, G., Mackey, et al

2025; 29: 105330

- **Leg Muscle Volume, Intramuscular Fat and Force Generation: Insights From a Computer-Vision Model and Fat-Water MRI.** *Journal of cachexia, sarcopenia and muscle*  
Smith, A. C., Laguna, J. M., Wesselink, E. O., Scott, Z. E., Jenkins, H., Thornton, W. A., Wasielewski, M., Connor, J., Delp, S., Chaudhari, A. S., Parrish, T. B., Mackey, S., Elliott, et al  
2025; 16 (1): e13735
- **Development and preliminary testing of a comprehensive Ecological Momentary Assessment of people with chronic pain.** *The journal of pain*  
Junghaenel, D. U., Fillingim, R. B., Pratscher, S. D., Goldstein, S., Mackey, S., Stone, A. A.  
2025: 105328
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## PRESENTATIONS

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- Opiates: The Bad and the Ugly - Irish Association for the Study of Pain (September 2010)
- How Functional Neuroimaging Will Transform the Diagnosis and Treatment of Central Neuropathic Pain Conditions - American Academy of Neurology (April 2010)
- Prefrontal Cortical Systems in Chronic Low Back Pain Versus Generalized Anxiety Disorders (April 2008)
- Functional Neuroimaging of Pain (4/2007)
- Neuropathic Pain (April 2007)
- What's New in Regional Anesthesia? (April 2007)
- Current Concepts of Perioperative Pain (April 2007)
- Pain and the Brain: What has Neuroimaging Taught Us? - European Federation of Neurological Societies (10/2006)
- Changing Pain in the Brain - International Conference on the Mechanisms and Treatment of Neuropathic Pain