



Sean Mackey, MD, PhD

REDLICH PROFESSOR, PROFESSOR OF ANESTHESIOLOGY, PERIOPERATIVE, AND PAIN MEDICINE AND, BY COURTESY, OF NEUROLOGY AT THE STANFORD UNIVERSITY MEDICAL CENTER

Anesthesiology, Perioperative and Pain Medicine

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Bio

Sean Mackey, M.D., Ph.D, is Chief of the Division of Pain Medicine and Redlich Professor of Anesthesiology, Perioperative and Pain Medicine, Neurosciences and Neurology at Stanford University. He is the Immediate Past President of the American Academy of Pain Medicine. Dr. Mackey received his BSE and MSE in Bioengineering from University of Pennsylvania and his PhD in Electrical and Computer Engineering as well as MD from University of Arizona. Dr. Mackey is author of over 200 journal articles, book chapters, abstracts, and popular press pieces in addition to numerous national and international lectures.

Under Dr. Mackey's leadership, the Stanford Pain Management Center has been designated a Center of Excellence by the American Pain Society, one of only two centers to receive this honor twice. In 2011 he was a member of the Institutes of Medicine committee that issued the report on Relieving Pain in America. He is currently Co-Chair of the Oversight Committee for the NIH/Health and Human Services National Pain Strategy, an effort to establish a national health strategy for pain care, education and research.

Under Dr. Sean Mackey's leadership, researchers at the Stanford Pain Management Center and the Stanford Systems Neuroscience and Pain Laboratory (SNAPL) have made major advances in the understanding of chronic pain as a disease in its own right, one that fundamentally alters the nervous system. Dr. Mackey has overseen efforts to map the specific brain and spinal cord regions that perceive and process pain, which has led to the development of a multidisciplinary treatment model that translates basic science research into innovative therapies to provide more effective, personalized treatments for patients with chronic pain.

Clinical Focus

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

Academic Appointments

Professor - Med Center Line, Anesthesiology, Perioperative and Pain Medicine
Professor - Med Center Line (By courtesy), [Neurology & Neurological Sciences](#)
Member, [Bio-X](#)
Member, [Cardiovascular Institute](#)
Member, [Stanford Cancer Institute](#)
Member, [Wu Tsai Neurosciences Institute](#)

Administrative Appointments

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 & Awards

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

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

Internship:Tucson Medical Center Medical Education Program (1995) AZ

Medical Education:University of Arizona (1994) AZ

Residency:Stanford University School of Medicine (1998) CA

Fellowship:Stanford University School of Medicine (1999) CA

Board Certification: Pain Management, American Board of Anesthesiology (2000)

Board Certification: Anesthesia, American Board of Anesthesiology (1999)

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

Contact

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