

Daniel Sipple D.O.
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Saint Paul, MN 55105
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612 470 3128

BACKGROUND: Seasoned Pain Psychiatrist, Inventor, Policy Advocate, Researcher
Founder Acies Medical, Inventor Smart Needle for Never Event Prevention
Past Board of Directors, Society for Brain Mapping and Therapeutics (SBMT),
Global Neuroscience Think Tank, US Delegation at N20
Biden/Harris & U.S. Department of Commerce NeuroTech Hub Program Launched via SBMT
Lobbying \$500 Million

EXPERIENCE: Sipple Medical Innovations, June 2023-Present
2233 Hamline Avenue, Suite 611, Roseville, MN 55113

Hypercharge Integrative Health, Chief Medical Officer, June 2024-October 2024.
7300 France Avenue South, Suite 301, Edina, MN

Hypercharge Wellness, Co-Founder CMO, June 2023-October 2024
7270 Forestville Lane North, Suite 175, Maple Grove, MN 55369

Minnesota Institute for Pain Medicine, September 2022-June 2023
2780 Snelling Avenue North, Suite 304, Roseville, MN 55113 September 2022-
June 2023

Founder, Acies Medical LLC, January 2020-present
2012 Princeton Avenue, St Paul, MN 55105

Midwest Brain and Spine, Interventional Psychiatrist, Jan1, 2016-October 2022
1950 Curve Crest Boulevard West, Suite 100. Stillwater, MN, 55082.

Independent Contractor, Injury Physicians of MN, October 2015- June 2016.
7648 Zane Avenue North, Brooklyn Park, MN, 55443

Medical Director HealthEast Spine Center, February 2013-August 2015
Service Line Medical Director: Brain, Pain & Spine,
1747 Beam Avenue, Suite 100, Maplewood, MN 55105

Pain Clinic of Northwestern Wisconsin/Mayo Clinic, January 2011- December
2012. 1221 Whipple Street, PO Box 1185, Eau Claire, WI 54702

Advanced Orthopedics and Sports Medicine Specialists, Jan 2009- Nov 2010
8101 East Lowry Blvd, Denver, CO 80230

EDUCATION: Sinai Hospital of Baltimore/ Orthopedic & Spine Specialists of York, PA.
ACGME Accredited Interventional Pain Fellowship, Jan 2008-Dec 2008.
1855 Powder Mill Road, York, PA 17402.

Northwestern University Medical School Faculty, Instructor
Rehabilitation Institute of Chicago, Staff Psychiatrist, July 2007-December 2007
RIC Chronic Pain Center, 980 N. Michigan Avenue, Suite 800, Chicago, IL
Outpatient Multidisciplinary Pain Service & Inpatient Orthopedic Service

Rehabilitation Institute of Chicago, Northwestern University Medical School

Physical Medicine & Rehabilitation Residency, July 2004-June 2007

University of Massachusetts Medical School
Internal Medicine Preliminary Year, July 2003–June 2004

Des Moines University-Osteopathic Medical Center
Doctor of Osteopathic Medicine, August 1999-May 2003

University of Minnesota Medical School,
Division of Neonatology, Lab of Dr. Guiang
Senior Lab Technician, July 1997-July 1999

University of Minnesota, Twin Cities Campus
Bachelor of Arts in English, History Minor
Minneapolis MN, September 1992-June 1997

HONORS:

Google Cloud Start Up Selectee, July, 2024
UAE Mastermind Award, Honorary Advisor, June 22, 2024
UAE Mastermind Award, Outstanding Med Tech Innovation, February 21, 2024
Matter Health, Global Health Tech Incubator, Accepted from Global Applicant Pool
Top Doctor , Minnesota Monthly 2016, 2017,2022, MSP Mag 2022
Rising Star, Minneapolis St. Paul Magazine 2015 (October)
Patient's Choice Award 2008-2011, Scholl Research Award, June 2007
American College of Osteopathic Family Practitioners (ACOFP), Beta Chapter
President's Scholarship, May 2003.
National ACOFP President's Award for Outstanding Achievement, March 2001
Phi Beta Kappa, University of Minnesota 1997

PATENTS:

Biomarker detection and identification system and apparatus PCT/US2020/063181

A biomarker detector used to detect and notify a user of a biological substance. More specifically, a biomarker detector coating layered on a surgical instrument that enables a user of the surgical instrument to know when a critical bodily fluid, such as cerebrospinal fluid, or critical tissue, such as nerve tissue, has been reached by the surgical instrument, thereby allowing the user to react accordingly and avoid iatrogenic injury.

Real Time Fluorescent Detection System for Medical Devices, WO2021133533A1
Daniel Sipple, Brian Norling July, 2021

A probe for real-time sensing of a target biomarker the includes a needle, a luminescent probe within the opening of the needle, a coating comprising a biomarker luminescent material in contact with biological tissue, and an ion-consuming coating within the needle and adjacent to the coating. The disclosed probe is useful for real-time sensing of blood during medical procedures. Additionally, a biomarker detection system is disclosed that includes a biomarker luminescent material at the tip of or inside of the tip of a needle and an optical coupler.

US Non Provisional Patent PCT/US15/36830
PCT International Patent Application No.: 15/319,770
Taylor, W., Sipple D., Segermark, J. Hydrogel Based Biological Delivery Vehicle
December 17, 2016

A hydrogel-based biological delivery vehicle used to effectively deliver drug and biological material to tissue or organ sites. More specifically, a hydrogel binding matrix having a biopolymer backbone containing carboxyl groups. Tyramine may

be substituted for at least a portion of the carboxyl groups, so that, when hydrogen peroxide is added, it causes creation of covalent bonds between tyramine molecules and cross-links the hydrogel binding matrix, thereby enabling the hydrogel binding matrix to transition from liquid to gel state. The hydrogel binding matrix, in its liquid form, is capable of encapsulating drug reservoirs to create a homogenous liquid with evenly distributed particles containing drugs or target molecules. As the hydrogel binding matrix solidifies into a gel state, the newly created cross-links do not disrupt or react with the drugs or target molecules contained within the drug reservoirs. This hydrogel-based biological delivery vehicle can be used in several medical applications.

SERVICE:

Board of Directors, Society for Brain Mapping and Therapeutics 2018-2022,
Board of Directors, Kinuu, Gamified Occupational Therapy, 2022-Present

PUBLICATIONS:

Blum K, et al Dopaminergic Dysfunction: Role for genetic and epigenetic testing in the new psychiatry. *J Neurological Science*, Oct 2023;15:453:120809

Nami, M et al A proposed Brain-, Spine-, and Mental – Health Screening Methodology (NEUROSCREEN) for Healthcare Systems: Position of the Society for Brain Mapping and Therapeutics. *J Alzheimers Dis* 2022;86(1):21-42.

Morris, K, et al Neuroscience 20 (Brain20, Spine20 and Mental20) Health Initiative: A Global Consortium Addressing the Human and Economic Burden of Brain, Spine, and Mental Disorders Through Neurotech Innovations and Policies *J Alzheimers Dis*. 2021;83(4):1563-1601.

Ashford, W et al. MMR Vaccination: A Potential Strategy to Reduce Severity and Mortality of Covid 19 Illness. *Am J Med*. 2021 Feb;134(2):153-155

Taylor, W., Sipple, D., Sinicropi, S. AnestaGel-P Provides Greater Analgesia in a rat Model of Post Operative Incisional Pain with Mechanical Allodynia than Exparel at 24 and 48 Hours. White Paper, Present at Partnership on Drug Delivery Conference, September, 2016, Boston, MA.

Sipple D, Hudgins T. “Foot and Ankle Bursitis” in Silver, Frontera. Essentials of Physical Medicine and Rehabilitation, 2nd Edition, May 2008

Plastaras C, Marciniak CM, Sipple D. *The effect of Interelectrode Distance on Sural Nerve Action Potential Parameters*. *Am J Phys Med Rehabil*. 2008 Mar; 87(3):183-188

Sipple D, Philip P. *Bitemporal hemianopsia: A rare complication of severe traumatic brain injury- A case report and review of mechanism of injury* *Archives Physical Medicine & Rehabilitation*, Volume 87, Issue 11, Pg e7. Presented at the Annual Assembly of the AAPM&R, Honolulu, Hawaii, November 2006.

Sipple, D. *Lou Gehrig’s Disease: A Case Report and Review of the Literature* *J POMA*, 46 (3): 18-21, 2002.

Guiang S, Sipple D, Georgieff MK. *Chronic Neonatal Hypoxemia Increases Cardiac Myoglobin and is Associated with Preservation of In Vitro Myocardial Contractility in*

PRESENTATIONS:

Sipple, D, Stanos, S. *Suspected chemotherapy induced Complex Regional Pain Syndrome (CRPS): A case report and review of CRPS diagnostic criteria*. Presented at The Annual Assembly of the AAPM&R, Honolulu, Hawaii, November 2006

Using Innovation to Solve the Opiate Crisis.
United States House of Representatives, Neuroscience Caucus
March 21, 2018

California Legislature, Opiates Treat the Underlying Disorder, August 7th, 2018

Root Cause Solutions: Opiate Addiction
Neuroscience 20 pre-G20 Summit, U.S. Delegation- Brain Mapping
Buenos Ares, Argentina November 26-27, 2018

United States House of Representatives, Neuroscience Caucus, Opiate Policy Innovation
February 2019

Opiate Crisis: Treat the Underlying Disorder
Neuroscience 20 pre-G20 Summit, U.S. Delegation- Brain Mapping
Osaka, Japan June 27th, 2019

White House, Office of Science and Technology Policy, May 2019, Brian Technology
and Innovation Park

White House, National Security Council, February 2020, Global N20/G20 Initiative

United States House of Representatives, Neuroscience Caucus, Opiate Policy Innovation,
March 2020

United States House of Representatives, Neuroscience Caucus, Opiate Policy Innovation,
March 2021

Society for Brain Mapping and Therapeutics, Psychiatry Section, Opiate Policy 2018,
2019, 2020, 2021,

World Business Angel Investment Forum, G20 Global Inclusion Partner, Acies Smart
Needle, October, 2022, Antalya, Turkey

Opiate Crisis: Innovations to Treatment
Neuroscience 20, pre-G20 Summit, US Delegation, New Delhi Secure Zone
September 2023

Opiate Crisis: Innovations to Treatment
United States House of Representatives, Neuroscience Caucus, Washington DC, October
2023

Oxygen Microbubble Therapy for Infant Eczema, A Case Report. Mayo Clinic Wound
Symposium, February 2025

Traumatic foot injury in a young adult from an All Terrain Vehicle resulting in chronic wounds and foot reconstruction; maximizing soft tissue management to improve outcomes. Mayo Clinic Wound Symposium, February 2025

Oxygen Microbubbles Case Studies, Emerging Wound Therapy, Poster Presentation. Mayo Clinic Wound Symposium, February 2025

PROFESSIONAL SOCIETIES AND CERTIFICATIONS The American Academy of Physical Medicine and Rehabilitation
Society for Brain Mapping and Therapeutics, Past Board of Directors
Holomedicine Association
Board Certified American Board of Physical Medicine and Rehabilitation
Subspecialty Board Certification in Pain Management
AAPMR STEPS Certification Concussion and Mild Traumatic Brain Injury
Minnesota Medical License
Wisconsin Medical License
Interstate Medical License Compact- Colorado, Georgia, Ohio, Texas,
All others in compact accessible
ACLS, BLS

REFERENCES: Available Upon Request