



Neurological Associates

Interventional Group

2811 Wilshire Blvd Suite 790, Santa Monica, California, 90403
Office 310-829-5968 Fax 310-453-3685

MEDICAL – LEGAL FEE SCHEDULE for SHELDON JORDAN, M.D.

<u>SERVICES</u>	<u>FEE</u>
Neurological Independent Medical Evaluation/Exam	\$1,307.00
Neurodiagnostic Testing(EEG, EMG, Electrodiagnostic,Scans)	Unit Price
Review of records/MRI Scans/CT Scans/X-Rays, etc.	\$958.00/hour
Medical Research	\$958.00/hour
Report Preparation	\$958.00/hour
Attorney/Consulting Conference	\$958.00/hour
Illustrator Consultant Conference	\$958.00/hour
Deposition (in our office) 1 hour payment due before the Depo	\$1,188.00/hour
Payment in full due at time of deposition.	
Time exceeding 1 hour charged to the nearest to the quarter hour	
Deposition (out of our office)	\$5,227/half day
Payment of \$2,613.50 due 1 week before deposition.	
Payment of \$2,613.50 due 2 days before deposition.	
Expert witness for trial or arbitration	\$5,227/half day
Payment of \$2,613.50 due 1 week before appearance.	
Payment of \$2,613.50 due 2 days before appearance.	
Independent Medical Evaluation (out of our office)	\$4,356/ half day
Payment of \$2,178.00 due 1 week before appearance.	
Payment of \$2,178.00 due 2 days before appearance.	

PLEASE NOTE:

1. A charge of ½ the fee due for the service scheduled will be made for a missed appointment or failure to cancel the service/appointment a full 48 hours in advance.
2. A fee of \$5,000.00 is required in advance of any review of records, testing or consultation.
3. We are not taking on any Worker's Compensation cases.
4. All payments for visits after the initial consult is due 48hrs after statement is received.

Sheldon E. Jordan, M.D., F.A.A.N.

Curriculum Vitae- February 2022

Address

Sheldon Jordan, M.D., Inc., dba The Regenes Project
Neurological Associates - The Interventional Group
2811 Wilshire Boulevard, Suite 790
Santa Monica California, 90403

Founder & CEO:

Synaptec Research, Synaptec Network & Synaptec Holdings
2811 Wilshire Boulevard, Suite 780
Santa Monica California, 90403

Education

1978-1981	UCLA; Residency & Fellowship-Department of Neurology Fields of study: Clinical Neurophysiology and Electromyography
1977-1978	UCLA; Internship- Department of Medicine
1972-1977	UCLA School of Medicine
1969	Harvard University, Premedical Study
1968-1972	Johns Hopkins University, Phi Beta Kappa
1967	University of Southampton, England, Experimental and Shakespearean Theater

Certifications

- American Board of Neurology and Psychiatry 1983 to present
- American Board of Clinical Neurophysiology 1982 to present
- Pain Medicine Board by American Board of Anesthesiology

- American Board of Neurology and Psychiatry
- American Board of Addiction Medicine
- American Board of Interventional Pain Medicine
- Regenerative Medicine, ABIPM
- Evidenced Based Medicine and Statistics, SIS
- American Society of Neuroimaging: Computed Tomography
- American Society of Neuroimaging: Magnetic Resonance Imaging
- American Society of Neuroimaging: Ultrasonography
- Certification as Operator and Supervisor in Fluoroscopy
- Transcranial Magnetic Stimulation Operator/Supervisor
- CITI Human Research Certification

Awards and Honors

- Best Doctors in America, elected multiple years
- American Society of Interventional Pain Medicine, Distinguished Service Award, 2019
- Super Doctors, Los Angeles Magazine
- Cambridge Who's Who, Global Edition
- Elected fellow, American Academy of Neurology, 1988
- The Augustus Rose Award, highest award for resident physician at UCLA, Department Of Neurology, 1981
- The Surgical Medal, highest award for department of surgery, UCLA, 1977

- The Upjohn Award, highest award for combined research and academics, UCLA School of Medicine, 1977
- National Medical Honor Society, 1977
- The Samuel Goldwin Scholar, 1972-1977
- Alpha Epsilon Delta, National Premedical Honor Society, 1972
- Psi Chi, National Psychology Honor Society, 1972
- Phi Beta Kappa, 1972

Appointments and Teaching Experience

- Clinical Associate Professor of Neurology, UCLA. Voluntary Faculty 1988- present
- Clinical Associate Professor of Neurology, The John Wayne Cancer Center
- Providence Saint John's Medical Center, Johns Medical Center, Santa Monica, California, 2019- present
- USC Department of Neurology, retired senior staff,
- Department of Neurology, Providence St John's Hospital
- Teacher, Preceptor ASIPP
- UCLA Santa Monica Medical Center, Chairman Department of Neurology, Retired

Collaborative Programs

- Consultant for USA Soccer, Major League Soccer, UCLA, Pepperdine Athletic Departments, California Boxing Commission, NBA Basketball and NFL
- Board member, Neurologist for US Soccer
- Course director of a weekly CME-accredited course and collaborative neuro-imaging review session conducted through Providence Health Systems

- Consultant for heart, lung, and liver transplant programs at UCLA
- Course Director American Society of Interventional Pain Medicine, Regenerative Medicine, 2018
- Co-founder and ongoing participant in the UCLA Stroke Service and collaborator on numerous clinical trials
- Performed and published for work in intraoperative monitoring
- Collaborated in several investigational device projects including computerized EEG brain mapping, evoked potential brain mapping, interventional cerebral angiography catheter and pump designs, transcranial magnetic stimulation
- Staffed original Neurological Behavior Clinic at UCLA with Drs. Frank Ervinand & Kenneth Rickler
- Staffed original Sleep Laboratory at UCLA with Dr. Emery Zimmerman
- Founding Partner board member for Center for Ambulatory Surgical Treatment
- Medical Director of Directed Interventional Surgical Center
- Medical Director of Neurological Associates Surgical Center
- Medical Director & Founding Partner for Smart Brain and Health; fMRI & rTMS program for depression, OCD, pain, anxiety, concussion, & tinnitus
- Founding Partner and Managing Partner for Medical Imaging of Southern California; owned and operated one of first independent MRI scanner departments in California (1984 origins)
- Founding Partner and Managing Partner for Diagnostic Imaging Center for Southern California; owned and operated one of first independent CT scannersin California (1983 origins)
- Founding Partner of Neurological Associates – The Interventional Group

- Founding Partner and CEO of The Synaptec Network, Synaptec Research, & Synaptec Holdings
- Harvard Imaging group for functional MRI of pain, depression, OCD, addictions, dementia, and concussion
- Senior staff, Chairman of Neurology, retired, UCLA-Santa Monica Hospital
- Consulting Neurologist for Department of Justice, Division of Judicial Performance, State of California
- Medical Director, Smart Brain and Health (rTMS)
- Board Member, Center for Ambulatory Surgical Therapy, Westwood California
- Reviewer ISIS, Pain Medicine Journal and Pain Physician Journal
- Medical Advisory Board for Allergan (botulinum toxin)
- Developed behavior modification program for chronic Schizophrenic and depressed patients at Sheppard Pratt Psychiatric Institute, Towson, Maryland (Johns Hopkins affiliated program)
- Developed behavior modification program for developmentally disabled children at the Kennedy Institute, Baltimore, Maryland (Johns Hopkins affiliated program)
- Developed several psychometric scales: the Head Injury Scale & the Cervical Brachial Symptom Survey Questionnaire which have been used nationally in clinical research
- Assistant Chaplain, developed and coordinated Sunday Services for Johns Hopkins University
- Coach and Manager, Westside Breakers Soccer club; Gold and Premier Level; first West Los Angeles Soccer club to win California State Cup

- Even though many of the players were from disadvantaged homes, many became scholarship college players, several played on college championship teams at North Carolina, Portland and UCLA, and one played on the USA National Team
- Board Examiner, American Board of Interventional Pain Medicine
- Course Director, World Association of Pain Medicine Ultrasound
- Consultant for the BrainSonix Corporation
- Board Member, American Society of Pain Physicians
- Chief Investigator, Pfizer Tyrosine Kinase Inhibitor for treatment of degenerative dementia
- Chief Investigator, Advanced MRI Imaging Emcyte Platelet Rich Plasma fortreatment of discogenic pain
- Chief Investigator, Focused Ultrasonography for Treatment of Degenerative Proteinopathies (Brainsonix)
- Depth electrode placement, ablations for studying hippocampus; Dr. Olton, Johns Hopkins, 1969-1970
- Depth recording from brainstem, Brain Research Institute, UCLA, 1972
- Depth recording, ablations brainstem, Learning Laboratory, Dr. Woody, UCLA
- Monitoring, interventional radiology, Dr. Hashima, Dr. Vineula, Dr. Dion at UCLA
- Surgical monitoring Neurosurgery Service, Dr. Martin, UCLA
- Epilepsy surgical program, depth electrodes, monitoring at UCLA

Ongoing Research Projects

- New IDEAS: Imaging Dementia—Evidence for Amyloid Scanning Study- A Study to Improve Precision in Amyloid PET Coverage and Patient Care
- Open-Label Study for the Use of Transcranial Ultrasound Treatment. Conditions: Depression, Anxiety, ADHD, Parkinson's, Neuropathic Pain, Neurodegenerative Dementias
- Prodrome Neuro: An Open-Label Study of Omega-3 Oil Nutritional Supplementation for Aging-Related Cognitive Decline. Conditions: memory impairment, aging related cognitive decline, Alzheimer's disease, Parkinson's disease, dementia
- The Treatment of Dementia with Bosutinib: An Open-Label Study of a Tyrosine Kinase Inhibitor, Conditions: memory impairment, Alzheimer's disease, Parkinson's disease, dementia
- The Use of Transcranial Near-Infrared Laser Stimulation. Conditions: depression, anxiety, dementia, traumatic brain injury
- Focused Transcranial Ultrasound Guided Delivery of Tyrosine Kinase Inhibitors to Hippocampus for Treatment of Alzheimer's Disease
- Focused Transcranial Ultrasound Guided Delivery of Tyrosine Kinase Inhibitors to Substantia Nigra for Treatment of Parkinson's Spectrum Disorders
- Focused Transcranial Ultrasound Guided Delivery of Allogenic Exosomes for Treatment of Refractory Depression
- Focused Transcranial Ultrasound Guided Delivery of Allogenic Exosomes for Treatment of Degenerative Dementia
- Tyrosine Kinase Inhibitor Treatment of Degenerative Dementia, Chief Investigator, Pfizer
- Platelet Rich Plasma Treatment of Discogenic Pain
- Advanced MRI Imaging Applications to Clinical Practice, Retrospective and Prospective Studies
- Use of Microbubble Enhanced Ultrasound for Opening Blood Brain Barrier for Glioma
- Use of Autologous Stem Cell Treatment for Migraine and Neuralgia

- Imaging Neurovascular Coupling using Resting State MRI
- Ultrasonically guided botulinum chemo denervation and test injection for diagnosis and treatment of Thoracic Outlet Syndrome and cervical dystonia
- Functional Imaging and rTMS for OCD, pain, addiction, depression, dementia, and concussion

Society Memberships

- American Medical Association
- Los Angeles Medical Association
- American Academy of Neurology
- American Society of Interventional Pain Physicians
- American Neuroimaging Association
- International Spinal Injection Society
- International Pelvic Pain Society
- American Society of Addiction Medicine
- Alzheimer's Disease Research Seminar

Publications and Presentations

- Jordan, SE (February 2022) Peptides and Small Molecules for Neurodegeneration at the American Academy of Anti-Aging Medicine (A4M) Peptides Module, Nashville, TN.
- Jordan, SE (December 2021) Regeneration- The Brain Doctor's Guide to Health: Keynote Speech at the American Academy of Anti-Aging Medicine (A4M) World Congress, Las Vegas, NV.
- Jordan, SE (December 2021) Alzheimer's Disease Revisited in the Post- Amyloid Era at the American Academy of Anti-Aging Medicine (A4M) World Congress, Las Vegas, NV.

- Jordan, SE (December 2021) Brain Survival in a Toxic Planet at the American Academy of Anti-Aging Medicine (A4M) World Congress, Las Vegas, NV.
- Jordan, SE (December 2021) Advanced Targeted Delivery Systems and Techniques at the American Academy of Anti-Aging Medicine (A4M) World Congress, Las Vegas, NV.
- Jordan, SE (December 2021) Exosomes and Stem Cells for Neurological Applications at the American Academy of Anti-Aging Medicine (A4M) World Congress, Las Vegas, NV.
- Zielinski, M., Habelhah, B., Mahdavi, K., Haroon, J., Kuhn, T. P., Becerra, S., Packham, H. R., Nicodemus, N. E., Spivak, N., Whitney, M., Mamoun, M. S., Bystritsky, A., Jordan, S. E., (December, 2021) Comparing Therapeutic Focused Ultrasound (tfUS) in Conjunction with bosutinib versus independent tfUS administration among Alzheimer's patients. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.
- Rindner, E., Mahdavi, M., Zielinski, M., Haroon, J., Jordan, K., Bystritsky A., Jordan, S. E., (December, 2021). A case study of low-intensity focused ultrasound for treatment-resistant generalized anxiety disorder and major depressive disorder. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.
- Haroon, J., Mahdavi, K., Zielinski, M...Kuhn, T., Becerra, S., & Jordan, SE (December, 2021) A case of COVID-encephalopathy imaged with fMRI and treated with near infrared light. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.
- Jordan, S.E., Mahdavi, K, Habelhah, B., Becerra, S.A., Spivak, N., Zielinski, M., Whitney, M., Mamoun, M.S., Bystritsky, A. Kuhn, T.P., (December 2021). A case study of low-intensity focused ultrasound for treatment-resistant generalized anxiety disorder and major depressive disorder. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.
- Haroon, J., Jordan, SE., Jordan, K., Becerra, S. , Mahdavi, K., Habelhah, B., Shalhaf, M, Zielinski, M., Jordan, K., Bystritsky, A., Mamoun, M., Kuhn, T. (December, 2021) Results of Motor Threshold Site Navigation Using Modern fMRI for Clinical rTMS Treatment. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.

- Aboody, K., Mahdavi, K., Zielinski, M., Haroon, J., Go, V., Flores, L., M. McDonald, Jordan, K., Bystritsky, A., Jordan, S. (December, 2021). Investigation of focused ultrasound on blood-brain barrier permeability for small molecule delivery to the hippocampal formation: A preclinical investigation. Abstract accepted and poster presented at the International Brain Stimulation Conference, Charleston, SC.
- Jordan, SE (October 2021) Anti-Aging Regenerative Medicine Techniques at the California Society of Interventional Pain Physicians (CALSIPP) Annual Meeting, Rancho Palos Verdes, CA
- Jordan, SE (October 2021) Regenerative Medicine Techniques with Ultrasound Guidance at the California Society of Interventional Pain Physicians (CALSIPP) Annual Meeting, Rancho Palos Verdes, CA.
- Jordan, SE (October 2021) PRP and BMAC in Pain Practice at the California Society of Interventional Pain Physicians (CALSIPP) Annual Meeting, Rancho Palos Verdes, CA.
- Jordan, SE (August 2021) How the Hypothalamus and the Pineal Gland Control Aging at the American Academy of Anti-Aging Medicine (A4M) Peptide Conference, virtual.
- Jordan, SE (August 2021) The Brain Doctor's Guide to Alzheimer's Disease at the Seeds Scientific Research and Performance (SSRP) Brain Summit, Dallas, TX.
- Jordan, SE (July 2021) Neurological Manifestations of COVID-19 at the American Academy of Anti-Aging Medicine (A4M) COVID-19: A Primer Update from Treatment to Long Haulers, virtual
- Jordan, SE (July 2021) American Society of Interventional Pain Physicians (ASIPP) Cadaver Workshop, Memphis, TN.
- Jordan, SE (June 2021) The Grim Reaper Clock Resides in the Hypothalamus and Can Be Reset at the American Academy of Anti-Aging Medicine (A4M) Brain Health Summit, virtual.
- Jordan, SE (June 2021) Chronic Brain Infection; The Brain's Microbiome and Immuno-senescence at the American Academy of Anti-Aging Medicine (A4M) Brain Health Summit, virtual.
- Jordan, SE (June 2021) The 4m's of the Aging Brain: memory, Mood, Mobility and Mojo at the American Academy of Anti-Aging Medicine (A4M) Brain Health Summit, virtual.

- Jordan, SE (June 2021) The Brain Doctor's Guide to Alzheimer's Disease at the Alzheimer's Disease Research Seminar, Seeds Scientific Research & Performance Institute (SSRP), virtual.
- Jordan, SE (June 2021) Novel Indications and Approaches to Orthopedic Biologic Treatment, American Society Interventional Pain Physicians (ASIPP), New Orleans, CA.
- Jordan, SE., Zielinski, M., Kortylewski, M., Kuhn, K., Bystritsky, A., (2021) Non-Invasive delivery of biologicals to the brain. *Focus: The Journal of Lifelong Learning in Psychiatry*.
- Haroon, J., Mahdavi, K., Zielinski, M...Kuhn, T., Becerra, S., & Jordan, SE (2021) A case of COVID-encephalopathy imaged with fMRI and treated with near infrared light. *Brain Stimulation*, 14(6), 1444-6. Doi:10.1016/j.brs.2021.09.005
- Kuhn, T., Becerra, S., Duncan, J., Spivak, N., Dang, B.H., Habelhah, B., Mahdavi, K.D., Mamoun, M., Whitney, M., Pereles, F.S., Bystritsky, A., & Jordan, S.E. (2021) Translating state-of-the-art brain MRI techniques into clinical practice: Multimodal MRI Differentiates Dementia Subtypes in a Traditional Clinical Setting. *Quantitative Imaging in Medicine and Surgery*.
- Textbook of Thoracic Outlet Syndrome, 2nd ed. Springer Medical, In press, 2021.
- Haroon, J., Jordan, S., Kuhn, T., Becerra, S., Nicodemus, N.E., Barrows, H., Blades, R., Bystritsky, A., Mamoun, M., Whitney, M., Pereles, S., Franc, D., Peddi, S., Gabriel, S., & Rhee, J. (2021) Evaluation of the feasibility of applying advanced MRI scanning in clinical practice: a prospective study. Submitted to *Frontiers in Neuroscience* (under review).
- Mahdavi, K.D., Jordan, S.E., Barrows, H., Pravdic, M., Habelhah, B., Nicodemus, N.E., Blades, R.B., Iovine, J.J., Becerra, S.A., Steiner, R.S., Chang, M., Kesari, S., Bystritsky, A., O'Connor, E., Gross, H., Pereles, F.S., Whitney, M., & Kuhn, T.P. (2021) Treatment of dementia with bosutinib: an open-label study of a tyrosine kinase inhibitor. *Neurology: Clinical Practice*.
Doi:10.1212/CPJ.0000000000000918
- Habelhah, B., Spivak, N.M., Mahdavi, K.D., Blades, R., Becerra, S.A., Barrows, H.R., Evans, N.E., Tehrani, N., Steiner, N., Kuhn, T.P., Hosseini, M.B. (2021) A validated task-based approach for cerebral

artery confirmation using transcranial doppler. Submitted to *Journal of Ultrasound in Medicine* (under review).

- Habelhah, B., Packham, H.R., Nicodemus, N.E., Jordan, S.E., Whitney, M., Pereles, F.S., Duncan, J.C., Becerra, S.A., Spivak, N., Iovine, J.J., Mahdavi, K.D., Bystritsky, A., Mamoun, M.S., & Kuhn, T.P. (in preparation) Preliminary outcome results of open clinical rTMS treatment for co-morbid resistant MDD in private setting using modern fMRI navigation: a retrospective analysis.
- Habelhah., B., Mahdavi, K.D., Tehrani, N., Becerra, S.A., Spivak, N.M., Kuhn, T.P., & Jordan, S.E. (in preparation) Co-localization and lateralization of handedness, language, and dominant dorsolateral prefrontal cortex.
- Jordan, S.E., Iovine, J., Kuhn, T.P., & Gelabert, H. (2020) Neurogenic thoracic outlet syndrome and other forms of cervical brachial syndrome treated with plasma concentrate enriched for alpha 2 macroglobulin. *Pain Physician*, 23:229-233.
- Jordan, SE (Oct 2020) Regenerative Medicine Comprehensive Review Course, Session Chair, The American Society of Interventional Pain Physicians (ASIPP), National Meeting.
- Nicodemus, N.E., Becerra, S.A., Kuhn, T.P., Packham, H.R., Duncan, J.D., Mahdavi, K.D., Iovine, J.J., Kesari, S., Pereles, S., Whitney, M., Mamoun, M., Franc, D., Bystritsky, A., Jordan, S.E. (2019) Focused transcranial ultrasound for treatment of neurodegenerative dementia. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, 5:374-81. doi:10.1016/j.trci.2019.06.007
- Jordan, SE (Sept 2020) Anti-Aging of the Brain and Resetting the Grim Reaper Clock. Presented at the American Society of Interventional Pain Physicians (ASIPP), National Meeting.
- Jordan, SE (July 2020) Complementary and alternative therapies. Presented at the American Society of Interventional Pain Physicians (ASIPP), Virtual Meeting.
- Jordan, SE (July 2020) Clinical nerve function studies. Presented at the American Society of Interventional Pain Physicians (ASIPP), Virtual Meeting.
- Jordan, SE (February 2020) Present and future allogeneic regenerative therapies. Presented at the 6th annual meeting for the World Academy of Pain Medicine United (WAPMU), Miami/Coral Gables, FL.

- Jordan, SE & Priztlaff, S. (February 2020) Radiofrequency and regenerative approaches; how to choose? Presented at the 6th Annual Meeting of the World Academy of Pain Medicine United (WAPMU), Miami/Coral Gables, FL.
- Jordan, SE (February 2020) Exosomes, amnion, placenta, and core blood. Presented at the 6th Annual meeting for the World Academy of Pain Medicine United (WAPMU), Miami/Coral Gables, FL.
- Blades, R., Kuhn, T., Mahdavi, K., Iovine, J., Becerra, S., Mamoun, M., Bystritsky, A., & Jordan S.E. (2020) Treating dissociative PTSD with cingulate and supplementary motor area TMS targets: a case study. *Journal of Neurological Sciences* (in press).
- Jordan, S.E., Iovine, J., Kuhn, T.P., & Gelabert, H. (2020) Neurogenic thoracic outlet syndrome and other forms of cervical brachial syndrome treated with plasma concentrate enriched for alpha 2 macroglobulin. *Pain Physician*, 23:229-233.
- Nicodemus, N.E., Becerra, S.A., Kuhn, T.P., Packham, H.R., Duncan, J.D., Mahdavi, K.D., Iovine, J.J., Kesari, S., Pereles, S., Whitney, M., Mamoun, M., Franc, D., Bystritsky, A., Jordan, S.E. (2019) Focused transcranial ultrasound for treatment of neurodegenerative dementia. *Alzheimer's & Dementia Research & Clinical Interventions*, 5:374-81. doi:10.1016/j.trci.2019.06.007
- Blades, R., Becerra, S., Jordan, S.E., Eusebio, B., Heatwole, M., Iovine, J., Mahdavi, K.D., Mamoun, M., Nicodemus, N., Packham, H., Spivak, N., & Kuhn, T. (2020) The role of the insula in classical and dissociative PTSD: a double case study. Submitted to *Neurocase* (under review)
- Zielinski, M.A., Nicodemus, N.E., Jordan, S.E., Bae, H., Kamrava, E., Calodney, A., Remley, K., Benyamin, R., Peterson, M.R., Iovine, J., Packham, H.R., Mahdavi, K.D., Becerra, S.A., Raju, S., Pravdic, M., Duncan, J., & Kuhn, T.P. (2019) Safety and efficacy of platelet rich plasma for treatment of lumbar discogenic pain: a prospective, multi-center, randomized, double-blind study. *Spine*.
- Jordan, S Functional Magnetic Resonance Imaging, 2019 ASIPP Annual Meeting, American Society of Interventional Pain Physicians, Las Vegas, Nevada, May 2019.

- Jordan, SE Allogeneic Adipose Derived Regenerative Therapy, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, 2019
- Jordan S, Magnetic Resonance Imaging, the Advance Toolbox, Neurosurgery Grand Rounds, University of California Davis, Sacramento, CA, June, 2019
- Jordan, SE Bone Marrow Therapy: Harvesting and Processing, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, April, 2019
- Jordan SE, Introduction to Functional Regenerative Medicine, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, Boston Biolife, Los Angeles, CA April, 2019
- Jordan, SE Bone Marrow Therapy: Introduction to Regenerative Medicine & Biologic Therapies, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, April, 2019
- Jordan SE Orthobiologics in Clinical Practice, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, Boston Biolife, Coral Gables, Florida, February 2019
- Becerra, S.A. Case study: comparison of MRI techniques for demonstrating successful ultrasound targeting: BOLD compared with ASL functional imaging. Presented at the 3rd Annual International Brain Stimulation Conference, Vancouver B.C. February 2019
- Mahdavi, K.D., Packham, H.R., Nicodemus, N.E., Jordan, S.E., Iovine, J.J., Duncan, J.C., Becerra, S.A., Spivak, N., Kuhn, T.P., & Whitney, M. Focused ultrasound as a potential means of facilitated exosome delivery to Brodmann Area 25 in the treatment of refractory depression. Presented at the 3rd Annual International Brain Stimulation conference, Vancouver, BC. February 2019
- Iovine, J.J., Spivak, N.M., Jordan, S.E., Mahdavi, K.D., Duncan, J.C., Becerra, S.A., Packham, H.R., Nicodemus, N.E., Pereles, S., Whitney, M., Bystritsky, A., Kuhn, T.P., Mamoun, M.S. Case report: improved rTMS efficacy after fMRI localizes DLPFC target to non-dominant hemisphere. Presented at the 3rd annual International Brain Stimulation conference, Vancouver, BC. February 2019

- Thoracic Outlet Syndrome Textbook, 2nd Edition, Springer Medical, In press, 2019
- Jordan S, Advanced MRI Neuroimaging Grand Rounds, Providence Saint John's Health Center CME Course, Friday Mornings 2018 through Present
- Jordan, SE, Introduction to Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, June 2018
- Jordan, SE Legal and Ethical Aspects and FDA Position on Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, Orlando, Florida, June 2018
- Jordan, SE, Basics and Technical Aspects of Ultrasound Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, Orlando, Florida, June 2018
- Jordan, SE, Bone Marrow Concentrate: Evolution, Application and Acquisition in Musculoskeletal and Lumbar Spine Disorders, Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, AZ, 2018
- Jordan, SE, Application of Regenerative Medicine in Upper Extremity Disorders: Evidence and Technical Considerations (Fluoroscopy and/or Ultrasound) of Intraarticular Injections, Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, Phoenix AZ, May 2018
- Becerra, S.A., Kuhn, T.P., Duncan, J.C., Pereles, F.S., Whitney, M., & Jordan, S.E. Using resting state neurovascular coupling to differentiate healthy elderly from Alzheimer's disease. Presentation provided at the 12th annual meeting of the American Society of Functional Neuroradiology, San Diego, CA. 2018
- Pereles, F.S., Whitney, M., Jordan, S., Mamoun, M., Franc, D., Kuhn, T. Barriers to Use of Functional MRI in Clinical Practice – Has Experience Taught Us Anything? Forty-ninth annual meeting of the Western Neuroradiological Society meeting in Laguna Beach, CA. 2018

- Jordan, SE. Platelet Rich Plasma Therapy, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August 2018
- Jordan, SE Allogeneic Regenerative Products and Therapy, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, 2018
- Jordan SE, Ross D, Spiel D, Expert Panel Presentation on Exosome Therapy, 26th World Congress of the American Association of Anti-Aging Medicine, Las Vegas, Nevada, December, 2018
- Jordan, SE Introduction to Regenerative Medicine & Biologic Therapies, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August 2018
- Jordan, SE, Platelet Rich Plasma and Autologous Regenerative Therapy, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August, 2018
- Jordan, SE. Platelet Poor Plasma and Alpha 2 Macroglobulin Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August, 2018
- S. Jordan. Basics and Technical Aspects of Ultrasound. Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Phoenix, Arizona, May, 2018
- S. Jordan. Bone Marrow Concentrate: Evolution, Application and Acquisition in Musculoskeletal and Lumbar Spine Disorders. Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Phoenix, Arizona, May, 2018
- S. Jordan. Course Co-Director, Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Phoenix, Arizona, May, 2018
- S. Jordan. Course Co-Director, Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Orlando, Florida, June, 2018

- S. Jordan. Legal and Ethical Aspects and FDA Position on Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Orlando, Florida, June, 2018
- Jordan, S.E. Bone Marrow Therapy: Harvesting and Processing, Regenerative Medicine & Biologic Therapies Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August, 2018
- Nicodemus, N.E., Packham, H.R., Jordan, S.E., Duncan, J.C., Becerra, S.A., Iovine J.J., Mahdavi, K.D., Whitney, M., Pereles, S., Franc, D., & Kuhn, T.P. The use of MRI and fMRI data for targeted focused ultrasound treatment in neurodegenerative dementia. Poster presented at the 12th Annual meeting of the American Society of Functional Neuroradiology (ASFNR), San Diego, CA. October 2018
- Duncan, J.C., Jordan, S.E., Whitney, M., Pereles, S., Nicodemus, N.E., Packham, H.R., Becerra, S.A., Bystritsky, A., Mamoun, M.S., Chang, M., O'Connor, E., & Kuhn, T.P. Evaluation of the feasibility of applying advanced MRI scanning in clinical practice: a prospective study. Presented at the 12th annual meeting of the American Society of Functional Neuroradiology (ASFNR), San Diego, CA. October, 2018
- Packham, H.R., Nicodemus, N.E., Jordan, S.E., Duncan, J.C., Becerra, S.A., Bystritsky, A., Kuhn, T.P., & Mamoun, M.S. Effects of fMRI navigated TMS on treatment outcomes in major depressive disorder. Presented at the 12th annual meeting of the American Society of Functional Neuroradiology (ASFNR), San Diego, CA. October 2018
- Becerra, S.A., Kuhn T.P., Duncan, J.C., Mamoun, M.S., Pereles, S., Whitney, M., Jordan, S.E. Using resting state neurovascular coupling to differentiate healthy elderly from Alzheimer's disease. Presented at the 12th annual meeting of the American Society of Functional Neuroradiology (ASFNR), San Diego, CA. October 2018
- Nicodemus, N.E., Packham, H.R., Jordan, S.E., Whitney, M., Pereles, S., Duncan, J.C., Becerra, S.A., Bystritsky, A., Kuhn, T.P., & Mamoun, M.S. Utilizing fMRI correlates of cognitive reappraisal to

identify additional TMS targets for the treatment of GAD. Presented at the 6th annual meeting of the Clinical Transcranial Magnetic Stimulation Society conference, Brooklyn, NY. May, 2018

- Packham, H.R., Nicodemus, N.E., Jordan, S.E., Whitney, M., Pereles, S., Duncan, J.C., Becerra, S.A., Bystritsky, A., Kuhn, T.P., Mamoun, M.S. Effects of fMRI Navigated TMS on Treatment Outcomes in Major Depressive Disorder. Sixth annual meeting of the Clinical Transcranial Magnetic Stimulation Society conference. Brooklyn, New York. May, 2018.
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- S. Jordan, Course Director, Regenerative Medicine and Biologic Therapies, Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin, Texas, August 11-12, 2018.
- S Jordan, M Murphy, S Essner...et al. Regulatory Oversight and the Food and Drug Administration, Regenerative Medicine and Biologic Therapies, Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin Texas, August 11-12, 2018.
- S Jordan, S. Essner, Woznicka, M Murphy, Case Studies in Regenerative Medicine, Regenerative Medicine and Biologic Therapies, Symposium and Practical Workshop, World Academy of Pain Medicine Ultrasonography, Austin Texas, August 11-12, 2018.
- Bornstein, M., Pereles, S.F., Franc, D., Jordan, S.E., & Whitney, M. Diagnoses encountered in the clinical application of functional MRI in outpatient imaging. Presented at the 11th annual meeting of the American Society of Functional Neuroradiology (ASFNR), Portland, OR. June, 2017
- Jordan, S.E., Franc, D., Pravdic, M., Becerra, S.A. Case report: quantifying resting bold imaging to monitor clinical progress of subjective disorders before and after TMS treatment. Presented at American Society of Functional Neuroradiology, Portland Oregon, June, 2017
- Jordan SE, Bone Marrow Concentrate: Evolution, Physiology, Indications, Mechanism of Action and Preparation in Musculoskeletal and Lumbar Spine Disorders, Comprehensive Review Course of

Regenerative Medicine, American Society of Interventional Pain Physicians, Las Vegas, November, 2017

- Jordan, SE, PRP: Evolution, Physiology, Indications, Mechanism of Action and Preparation in Musculoskeletal and Lumbar Spine Disorders - Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, Orlando, Florida, June 2017
- Jordan, SE, Application of Regenerative Medicine in Upper Extremity Disorders: Evidence and Technical Considerations (Fluoroscopy and/or Ultrasound) of Intraarticular Injections, American Society of Interventional Pain Physicians, Orlando, Florida, June 2017
- Sheldon Jordan, MD Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, Orlando Florida, June 2017
- Jordan, SE. PRP: Evolution, Physiology, Indications, Mechanism of Action and Preparation - Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders, American Society of Interventional Pain Physicians, Memphis, 2017
- Jordan, SE, Allogenic and Other available Biologics, Regenerative Medicine in Musculoskeletal and Lumbar Spine Disorders American Society of Interventional Pain Physicians, Memphis, TN, March, 2017
- S. Jordan. Allogenic Biologics for Regenerative Medicine, Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Memphis, Tennessee, March, 2017.
- S. Jordan. PRP: Evolution, Physiology, Indications, Mechanism of Action and Preparation Regenerative Medicine Meeting, American Society of Interventional Pain Physicians, Memphis, Tennessee, 2017
- S. Jordan. Anatomy, Physiology, and Pharmacology: Mechanisms of Nociception, Transmission, and Pharmacology. Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July, 2017
- S. Jordan. Neurophysiology and Neuroanatomy of Central Sensitization and Clinical Applications. Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July, 2017

- S. Jordan. Electrophysiology and Nerve Conduction. Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July, 2017
- S. Jordan. Peripheral and Entrapment Neuropathies. Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July 2017
- S. Jordan. Complementary and alternative therapies: Chiropractic, Osteopathic, Ayurvedic Homeopathic, Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July, 2017
- S Jordan. Section Chair. Comprehensive Interventional Pain Medicine Review Course. American Society of Interventional Pain Physicians, Orlando, Florida, July, 2017
- S. Jordan. Using the Advanced MRI Imaging Toolset for Navigation of rTMS. Clinical TMS Society Annual Meeting, New York, NY, May, 2018
- D. Franc, S. Jordan, et al. Retrospective Analysis of Advanced MRI in Clinical Practice. American Society of Functional Neuroradiology (ASFNR) 11th Annual Meeting, Portland, Oregon, October, 2017
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- S. Jordan, S. Raju, et al. Case Report: Quantification of fMRI Before and After rTMS to Monitor Clinical Progress American Society of Functional Neuroradiology (ASFNR) 11th Annual Meeting, Portland, Oregon, October, 2017

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- S. Jordan. Electrophysiological Monitoring of Patients with Arteriovenous Malformations during Surgery and Angiography UCLA Department of Neurosurgery Symposia, May, 1987.
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- S. Jordan. Neuroimaging in the Adult. Neuroimaging Course, UCLA Department of Continuing Education in the Health Sciences, December 1987.

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- S. Jordan. Diabetic Neuropathy American Diabetes Association, Los Angeles Chapter, June 1986.
- S. Jordan. Neurological Complications of AIDS. Allergy and Immunology Grand Rounds, UCLA,1986.
- S. Jordan. Topographical Mapping & Neuroimaging Psychiatric Grand Rounds, St. John's Hospital, 1986.
- S. Jordan. Clinical Approach to the Evaluation of Coma. UCLA Medicine Noon Lecture Series, January, 1985.
- S. Jordan. Electromyography in Rheumatological Disease. Rheumatology Grand Rounds, UCLA,1985.
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Publications and Presentations in Preparation

- Habelhah, B., Spivak, N.M., Mahdavi, K.D., Blades, R., Becerra, S.A., Barrows, H.R., Evans, N.E., Tehrani, N., Steiner, N., Kuhn, T.P., Hosseini, M.B. (in preparation) A validated task-based approach for cerebral artery confirmation using transcranial doppler. Submitted to *Ultrasound in Medicine & Biology*.
- Habelhah., B., Mahdavi, K.D., Tehrani, N., Becerra, S.A., Spivak, N.M., Kuhn, T.P., & Jordan, S.E.(in preparation) Co-localization and lateralization of handedness, language, and dominant dorsolateral prefrontal cortex.
- Kuhn, T.P., Becerra, S.A., Mahdavi, K.D., Habelhah, B., Tehrani, N., Barrows, H.R., Evans, N.E. Whitney, M., Pereles, F.S., Spivak, N.M., Bystritsky, A. & Jordan, S.E. (in preparation) A validation of probabilistic tractography based on anatomical and functional connectivity in neurodegenerative dementias.
- Zielinski, M.A., Jordan, S.E., Becerra, S.A, Mahdavi, K.D., Habelhah, B., & Kuhn, T.P (in preparation) The use of blood- oxygen level dependent imaging to confirm clinical history of thalamic pain syndrome.
- Habelhah, B., Packham, H.R., Nicodemus, N.E., Jordan, S.E., Whitney, M., Pereles, F.S., Duncan, J.C., Becerra, S.A., Spivak, N., Iovine, J.J., Mahdavi, K.D., Bystritsky, A., Mamoun, M.S., & Kuhn, T.P. (in

preparation) Preliminary outcome results of open clinical rTMS treatment for co-morbid resistant MDD in private setting using modern fMRI navigation: a retrospective analysis.

- Blades, R., Becerra, S., Jordan, S.E., Eusebio, B., Heatwole, M., Iovine, J., Mahdavi, K.D., Mamoun, M., Nicodemus, N., Packham, H., Spivak, N., & Kuhn, T. (2020) The role of the insula in classical and dissociative PTSD: a double case study. Submitted to Neurocase (under review)
- Habelhah, B., Mahdavi, K.D., Tehrani, N., Becerra, S.A., Spivak, N.M., Kuhn, T.P., & Jordan, S.E. (in preparation) Co-localization and lateralization of handedness, language, and dominant dorsolateral prefrontal cortex.
- Habelhah, B., Spivak, N.M., Mahdavi, K.D., Blades, R., Becerra, S.A., Barrows, H.R., Evans, N.E., Tehrani, N., Steiner, N., Kuhn, T.P., Hosseini, M.B. (2021) A validated task-based approach for cerebral artery confirmation using transcranial doppler. Submitted to Journal of Ultrasound in Medicine (under review).
- Haroon, J., Jordan, S., Kuhn, T., Becerra, S., Nicodemus, N.E., Barrows, H., Blades, R., Bystritsky, A., Mamoun, M., Whitney, M., Pereles, S., Franc, D., Peddi, S., Gabriel, S., & Rhee, J. (2021) Evaluation of the feasibility of applying advanced MRI scanning in clinical practice: a prospective study. Submitted to Frontiers in Neuroscience (under review).

Posters

- Becerra, S., Zielinski, M., Mahdavi, K., Habelhah B., Haroon, J., Chang, M., Bystrisky, A., Whitney, M., Kuhn, K., Jordan, S. (October, 2021). Comparison of Dementia and Depression with Advanced Neuroimaging Findings. Poster accepted at the American Society for Clinical Pathology (ASCP).
- Zielinski, M., Mahdavi, K., Barrows, H., Habelhah, B., Chang, M., Kesari, S., Bystriski, A., O'Connor, E., Gross, H., Pereles, S., Whitney, M., Kuhn, T., Jordan, SE., (July, 2021) Updated treatment of

dementia with bosutinib: An open label study of a tyrosine kinase inhibitor. Poster presented at the Alzheimer's Association International Conference, Denver, CO.

- Goodenowe, D., Haroon, J., Zielinski, M., Mahdavi, K., Habelhah, B., Jordan, S., (July, 2021) The effect of plasmalogen precursor supplementation on circulating blood biomarkers and cognition in cognitively impaired persons. Poster presented at the Alzheimer's Association International Conference, Denver, CO.
- Goodenowe, D., Haroon, J., Zielinski, M., Mahdavi, K., Habelhah, B., Jordan, S., (July, 2021) The effect of plasmalogen precursor supplementation on blood catalase and malondialdehyde levels in cognitively impaired persons. Poster presented at the Alzheimer's Association International Conference, Denver, CO.
- Habelhah, B., Mahdavi, K., Zielinski, M., Haroon, J., Kuhn, T. P., Becerra, S., Packham, H. R., Nicodemus, N. E., Spivak, N., Whitney, M., Mamoun, M. S., Bystritsky, A., Jordan, S. E., (July, 2021) Comparing Therapeutic Focused Ultrasound (tfUS) in Conjunction with bosutinib versus independent tfUS administration among Alzheimer's patients. Poster presented at the Alzheimer's Association International Conference, Denver, CO.
- S. Becerra, S.A., Kuhn, T.P., Duncan, J.C., Mamoun, M., Pereles, F.S., Whitney, M., & Jordan, S.E. (December, 2019) Validation of resting state neurovascular coupling in the OASIS-brains dataset to differentiate normal elderly brains from Alzheimer's disease. Poster presented at the 12th annual congress for Clinical Trials on Alzheimer's Disease (CTAD), San Diego, CA
- Habelhah, B., Mahdavi, K.D., Kuhn, T.P., Becerra, S.A., Packham, H.R., Blades, R.B., Nicodemus, N.E., Spivak, N., Whitney, M., Mamoun, M.S., Bystritsky, A., & Jordan, S.E. (October, 2019) Validation of MRI-navigated focused ultrasound for delivery of small molecules and exosomes. Poster presented at the 9th annual meeting of the American Society for Exosomes and Microvesicles, Pacific Grove, CA.
- Mahdavi, K.D., Kuhn, T.P., Habelhah, B., Becerra, S.A., Packham, H.R., Blades, R.B., Nicodemus, N.E., Spivak, N., Whitney, M., Mamoun, M.S., Bystritsky, A., & Jordan, S.E. (September, 2019)

- Validation of MRI-navigated focused ultrasound for delivery of small molecules and exosomes. Poster presented at the Exosome Based Therapeutic Development conference, Boston, MA.

Art Exhibits and Illustration Work

- Lincoln Center, New York
- Lever House, New York
- Eisenhower Library, Johns Hopkins University
- Brewery Art Center, Los Angeles
- Brentwood Art Center, Santa Monica
- Vascular Disorders of the Upper Extremity, Machleder, Ed
- Textbook of Vascular Surgery, Moore, Ed
- Numerous medical and medical legal illustrations

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► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the
requester. Do not
send to the IRS.

Print or type.
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Sheldon Jordan M.D., INC		
2 Business name/disregarded entity name, if different from above		
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ► _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>	
5 Address (number, street, and apt. or suite no.) See instructions. 2811 Wilshire Blvd Suite 790	Requester's name and address (optional)	
6 City, state, and ZIP code Santa Monica, CA 90403		
7 List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number								
			-			-		
or								
Employer identification number								
9	5	-	3	9	4	3	4	0 5

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign
Here

Signature of
U.S. person ►

Date ►

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.