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Olawale A. R. Sulaiman, M.D., PhD., FRCS (C)

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Wale A. R. Sulaiman, MD., PhD., FRCS (C)

CURRENT POSITION **System Chairman**, Department of Neurosurgery
Professor of Clinical Neurosurgery, Tulane University
Co-Medical Director, Ochsner Neuroscience Institute
Medical Director, Back and Spine Center
Director, Laboratory of Neural Injury and regeneration
Chairman, Ochsner Physician Research Council -2014-2016

OFFICE ADDRESS Ochsner Health Systems
Department of Neurosurgery
1514 Jefferson Highway
New Orleans, LA 70121, USA

OFFICE TELEPHONE: 504-842-2181

E-MAIL ADDRESS: wsulaiman@ochsner.org; oarsulaiman@hotmail.com

EDUCATION: St. Gregory's College, Lagos State, Nigeria (High School);
Medical College of Varna, Bulgaria (MD/MSc);
University of Alberta, Edmonton, Alberta, Canada (PhD Neurosciences);
University of Manitoba, Winnipeg, Manitoba, Canada (Neurosurgery residency);
Medical College of Wisconsin, Milwaukee, WI (Spine fellowship);
Louisiana State University Health Sciences Center (Nerve Surgery fellowship);
Member, American Association for physician leadership 2011 till date
Graduate, Ochsner Learning Institute, Physician Leadership Course

LICENSURE AND BOARD STATUS:

Fellow, Royal College of Physicians and Surgeons of Canada;
Licentiate, Medical Council of Canada;
Licensed in Louisiana 2008.

TEACHING APPOINTMENTS:

Professor of Clinical Neurosurgery, Tulane University
System Chairman, Department of Neurosurgery, Ochsner Health Systems, July 2011 to present
Co-Director, Neuroscience Institute
Medical Director, Ochsner Back and Spine Center
Director, Laboratory of neural injury and regeneration,
Attending Physician, Department of neurosurgery, Ochsner medical center, August 2008 to present
Instructor, Medical College of Wisconsin, 2007-2008
Chief Resident, University of Manitoba, 2006-2007

PROFESSIONAL DEVELOPMENT:

Leadership and management for department heads- American college of physician executives 2011;
Member, American College of Physician Executives;
Ochsner Health Systems Leadership Annual Leadership Retreats, 2009-2016
Leadership and management course for department heads, Congress of Neurological Surgeons, 2011.

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MEMBERSHIP AND SOCIETIES:

American College of Surgeons, Member since 2001
American Association of Neurological Surgeons, member since 2008
Congress of Neurological Surgeons, Member since 2008
AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves 2008
American Society for Peripheral Nerve 2009
Louisiana Neurosurgical Association 2008
Member, Association of Nigerian Physicians in North America (ANPA) 2008

EDITORIAL BOARDS:

The Ochsner Journal, 2009 -2016
Guest Editor, Ochsner Journal, Special volume on Spine and outcomes of spine surgery
Assistant Editor, Biomedical Review Biomedical Reviews (An International Journal of Cell-Molecular Mechanisms of Diseases)
Member, International editorial advisory board- Journal of clinical and applied neurosciences
Member, Editorial Board- Austin Journal of Neurological Disorders and Epilepsy Neurosurgery, Ad-Hoc Reviewer
Journal of Neural Plasticity, Ad-hoc Reviewer
Neurosurgery, Ad-Hoc Reviewer
Journal of Neural Plasticity, Ad-hoc Reviewer
Spine- Ad-Hoc Reviewer
Associate Editor, Frontiers in Surgery (Neurosurgery)
World Neurosurgery, Ad-hoc Reviewer
Operative Neurosurgery, Ad-hoc Reviewer
Member, International Editorial board, Nigeria journal of Neurological Sciences.

INVITED SPEAKER/FACULTY:

American College of Spine Surgeons.
AANS/CNS Spine Section Annual Meeting (Member, Scientific Committee 2012)
Congress of Neurological Surgeons annual meetings- annual meetings
American Association of Neurological Surgeons- annual meetings
Ochsner research symposium
Ochsner- Basic science in clinical medicine
Tulane Neurosurgery grand rounds
National Surgical technologists workshop, Ochsner clinic foundation;
Sunderland Society Meeting, Mayo Clinic
Nerve Surgery Symposium, New Orleans
Neuroscience grand rounds, Univ of Manitoba, Winnipeg, MB, Canada
Canadian Association of Neuroscience Nurses, Manitoba Chapter
The Miami Project to Cure Paralysis, Univ. of Miami, Florida
Dept. of Physiology, University of Manitoba

HONORS AND AWARDS:

College Prizes for Academic Excellence in the Sciences;
University Prizes for Academic Excellence; Graduated top 5% of Medical School;
Nigerian National Scholarship for Academic Excellence
Summer Studentship/Travel Award, Dept. of Physiology, Leiden University, The Netherlands;
Mary Imri Travel Award for Outstanding Research, University of Alberta, Canada;
Faculty of Medicine 75th Anniversary Research Recognition Award/Scholarship, University of Alberta;
Research Excellence Award/Fellowship; Rick Hansen Institute/Alberta Paraplegic Foundation;
Outstanding Research Recognition/Incentive Award: Alberta Heritage Foundation for Medical Research,
Research Excellence Award/Fellowship-Canadian Institute for Health Research

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Outstanding Young Investigator Award- Nominee: International Campaign for Cure of Spinal Cord Injury paralysis (ICCP);
Governor General Gold Medal Award Nominee- for most meaningful and outstanding PhD research, 2001 Fall Convocation, University of Alberta;
Distinguished member award, Kwara state association of Nigeria, DC chapter, USA
Distinguished member award, Ajasse-Ipo descendants union of Nigeria- USA
Nominee, Physician leader of the year, Ochsner health system
2nd place, Physician leader of the year, Ochsner health system
Voted top 20 Kwarans that made a difference, Nigeria (2013)

INTERNATIONAL TEACHING AND HEALTH ADVOCACY:

Chairman, Board of Directors, Harmony Advanced Diagnostic Center, Kwara State, Nigeria 2016-
Member, Association of Nigerian Physicians in North America (ANPA) 2008 till Present
Member, Consultancy committee, ANPA 2009- till present
Chairman, ANPA consultancy committee, 2014- till present
Chairman, ANPA Louisiana Chapter 2015 – till present
Delegate, ANPA meeting with the Hon. Minister of Health of Nigeria on the signing of memorandum of understanding (MOU) between ANPA and Ministry of health, 2010
Chairman, Health Committee of Kwara State Association of Nigeria- North America (KSANG) 2011-
Chairman, Kwara State Health Advisory Council, 2012-till date (advisory role to the state Governor)
Organizer, Medical missions- Kwara state 2012, 2013 whereby over 2000 patients received free medical care
Invited Guest Speaker- Medtronic Africa Health Summit, The Changing Trend in Healthcare in Sub-Saharan Africa-Is there a role for Medtronic?? **April 4, 2013**
KeyNote Speaker, Kwara State University, Malete, Kwara State “Changing Trend in Healthcare in Sub-Saharan Africa- Is KWASU Medical School Going to Change the trend and Bridge the Gap” KWASU Medical College Stakeholder Symposium, March 2013
Invited Guest Speaker, Kwara State University, Malate, Kwara State, “Changing Trend in Healthcare in Sub-Saharan Africa- IS Nigeria Ready? February 2013.
Course Chairperson, Medtronic Spine education workshops, Lagos state university teaching hospital and Lagos university teaching hospital, Lagos, Nigeria; February 2013.
Course Chairperson, Medtronic Spine education workshop, Abuja, Nigeria; February 2013.
Co-Chairperson/Guest Speaker, KSANG health Summit- The role of palliative Care in Nigeria-organized in association with Nigerian Medical Association, Kwara state ministry of health and KSANG, 2012
Course Chairperson/Organizer, Medtronic Spine education workshops, University College Hospital Ibadan, University of Ibadan, Nigeria; August 2012.
Chairperson/Guest Speaker, KSANG health Summit- Non-communicable diseases in Sub-Saharan Africa- An emerging epidemics- organized in association with Nigerian Medical Association, Kwara state ministry of health and KSANG, 2011
Guest Speaker/Panelist- Medtronic’s Africa Health Summit, “Healthcare Industry in Africa - Challenges and Opportunities”. Minneapolis, USA, March 2011.
Chairman, health committee of Kwara state Association of North America (KSANG), 2011 till present
Founder and Course director, international scholarship in neurosciences at Ochsner neuroscience institute
Visiting Consultant and Founder, Delta state university teaching hospital Neurosurgery program
Founder, RNZ Back and Spine Centers of Africa
Visiting Consultant, University of Ilorin teaching hospital, Department of Neurosurgery, Ilorin, Kwara state, Nigeria
Visiting Professorships at Lagos university teaching hospital
Visiting Professorship at University college hospital, University of Ibadan, Nigeria
Visiting Professorship, National Hospital, Abuja, Nigeria
Visiting professorship, University of Ilorin Teaching Hospital, Kwara state, Nigeria
Mentor/Host, Nigerian Consultant Neurosurgeons and Neurologists at Ochsner Health System
Mentor/Host, Nigerian undergraduate science students at Ochsner medical center laboratory of neural injury and regeneration

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FUNDED RESEARCH

GRANTS:

Co-PI: DOD grant- application of stem cells to prevent pressure ulcers in patients with spinal cord injury using an animal model of SCI (\$2,000,000) Submitted

Principal Investigator (2012-2013)- Plastic Surgery Research Foundation, Expression of Regeneration-Associated Genes after Nerve Injury;

Principal Investigator (2002-2007) Medical Research Council of the Health Sciences Ctr, University of Manitoba, Canada -*factors related to external ventricular drain infections* (**\$15,000/year**)

Co-Principal Investigator (2008) Bryon Riesch Paralysis Foundation, Milwaukee, *Application of Diffuse Tensor Magnetic Resonance Imagine (DTMRI) to Assess Axonal Regeneration after Spinal Cord Injury* (**\$30,000**)

Principal Investigator-Fellowship Award-Schwann cell and peripheral nerve regeneration: Rick Hansen Institute/Alberta Paraplegic Foundation (**\$40,000**)

Awardee-Outstanding Research Recognition/Incentive Award Alberta Heritage Foundation for Medical Research, Canada (**\$20,000**);

Winner-Research Excellence Award/Fellowship- Schwann cell and peripheral nerve regeneration: Canadian Institute for Health Research (**\$120,000**)

REPRESENTATIVE PUBLICATIONS:

BOOK CHAPTERS:

Ongoing book chapter:

Garces, J., Mathkour, M., Scullen, T., Biro, E., **Sulaiman, OAR.**, Bui, CJ. Chiari Malformations Type I: Overview, Current Trends of Treatment, and Our Experience. In: Leon V. Berhardt (ed) *Advances in Medicine and Biology. Chapter: 1, Volume 99. Nova Science Publisher (Book Chapter) accepted, proofs phase*

Mathkour, M., Garces, J., Sulaiman, WAR. Brachial Plexus Injuries: Risk Factors, Management and Neurological Complications, (October 2015-present), invited by Nova Sciences Publisher, chapter ongoing

Mathkour, M., Garces, J., Sulaiman, WAR. Spondylolisthesis Classification, Diagnosis and Treatment, (March 2015-present), invited by Nova Sciences Publisher. 2016

Garces, J., Skovgard, M., Kaufmann, A., Mathkour, M., Sulaiman, WAR. Erb's Palsy/Brachial Plexus Injury, (January-September 2015), invited by Wiley-Blackwell, and accepted for publication.

2010-2014 Ochsner Outcomes Neuroscience Institute, (November 2014- March 2015), published

Published Book chapters:

Garces, J., Mathkour, M., Skovgard, M., Kaufmann, A., and **Sulaiman, O AR** (March 2016) Erb's Palsy/Brachial Plexus Injury. In: eLS. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0025818

Sulaiman OAR: Surgical management of acute nerve injuries (2016) Youman's Textbook of Neurosurgery (in print)

Gordon T and Sulaiman OAR (2012). NERVE REGENERATION IN THE PERIPHERAL NERVOUS SYSTEM. Neuroglia, Chapter 54.

Sulaiman OAR, Gordon T and R Midha (2012). Pathophysiology of Surgical Nerve Disorders. Youman's Textbook of Neurosurgery-Chapter 230: pp2368-

Sulaiman OAR, Kline DG (2012). Surgical Outcomes of brachial plexus lesions. In Practical Management of Pediatric and Adult Brachial Plexus Palsies. Chapter 24:pp344- Eds Kevin C. Chung, Lynda J-S Yang, John E. McGillicuddy

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OAR Sulaiman, JG Boyd and T. Gordon (2004). "Regeneration in the Peripheral Nervous System of Mammals". In: Neuroglia (2nd Edition), Kettenman & Ransom (eds), Chapter 36: 454-466

OAR Sulaiman (2001) "Development of Strategies to Overcome Limitations to Functional Recovery after Peripheral Nerve Injuries" Doctoral Thesis, University of Alberta, Edmonton, Alberta, Canada

MANUSCRIPTS

Sulaiman WA, Nguyen D (2017). Single local application of TGF-B promotes a pro-regenerative state throughout a chronically injured nerve. Neurosurgery (In Print). Manuscript number: NEU-D-16-00863; ID: nyx362

Sulaiman OAR, Garces J, Mathkour M, Scullen T, Jones RB, Arrington T, Bui CJ. (2017). Mini-Open Thoracolumbar Corpectomy: Perioperative Outcomes and Hospital Cost Analysis Compared with Open Corpectomy. World Neurosurg. 2017 Mar;99:295-301. doi: 10.1016/j.wneu.2016.11.075. Epub 2016 Nov 25. PMID: 27890745

Mathkour M, Garces J, Scullen T, Hanna J, Valle-Giler E, Kahn L, Arrington T, Houghton D, Lea G, Biro E, Bui CJ, Sulaiman OA, Smith RD (2017). Short- and Long-Term Outcomes of Deep Brain Stimulation in Patients 70 Years and Older with Parkinson Disease. World Neurosurg. 2017 Jan;97:247-252. doi: 10.1016/j.wneu.2016.06.001. Epub 2016 Jun 11. PMID: 27297246

Sulaiman W, Nguyen DH. (2016). Transforming growth factor beta 1, a cytokine with regenerative functions. Neural Regen Res. 2016 Oct;11(10):1549-1552. Review. PMID: 27904475

Garces J, Mathkour M, Bui CJ, Sulaiman, W and Ware M (2016). Giant Intraosseous Hemangioma of the Petrous Bone: A Case Report and Literature Review. Neuro-Oncology 18(suppl 6):vi171 · November 2016

Mathkour M, Garces J, Hanna J, Cormier I, Sulaiman W and Bui, C (2016). Papillary Tumor of the Pineal Region in Pediatric Population Associated with Trisomy 21: First Case Report and Literature Review. Neuro-Oncology 18(suppl 6):vi169 · November 2016

Mathkour M, Garces J, Scullen T, Boehm L, Hanna J, Sulaiman W and Bui, C (2016). First Case of Pleomorphic Xanthoastrocytoma of the Pineal Region in a Patient with Neurofibromatosis Type I. Neuro-Oncology 18(suppl 6):vi170 · November 2016

Garces J, Mathkour M, Hanna J and Sulaiman W (2016) Sacral Lipomatosis of the Nerve: A Novel Case Presentation and Literature Review (2016). Neuro-Oncology 18(suppl 6):vi170 · November 2016

Mathkour M, Garces J, Scullen T, Sulaiman W and Bui C (2016). Spindle Cell and Epithelioid Tumor of Unknown Origin in a Pregnant Female: A Novel Case Presentation and Literature Review. Neuro-Oncology 18(suppl 6):vi170 · November 2016

Iwuchukwu I, Nguyen D, Sulaiman W. (2016). MicroRNA Profile in Cerebrospinal Fluid and Plasma of Patients with Spontaneous Intracerebral Hemorrhage. CNS Neurosci Ther. 2016 Dec;22(12):1015-1018. doi: 10.1111/cns.12656. Epub 2016 Nov 7. No abstract available. PMID: 27870468

Garces J, Mathkour M, Beard B, Sulaiman OA and Ware W (2016). Insular and Sylvian Fissure Dermoid Cyst with Giant Cell Reactivity: A Case Report and Review of the Literature. World Neurosurgery · May 2016 DOI: 10.1016/j.wneu.2016.05.037

Sulaiman WA. (2016). Transforming Growth Factor- β Promotes Axonal Regeneration After Chronic Nerve Injury. Spine (Phila Pa 1976). 2016 Apr;41 Suppl 7:S29. doi: 10.1097/BRS.0000000000001435. PMID: 27015069

Phillips FM, Cheng I, Rampersaud YR, Akbarnia BA, Pimenta L, Rodgers WB, Uribe JS, Khanna N, Smith

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WD, Youssef JA, Sulaiman WA, Tohmeh A, Cannestra A, Wohns RN, Okonkwo DO, Acosta F, Rodgers EJ, Andersson G. (2016). Breaking Through the "Glass Ceiling" of Minimally Invasive Spine Surgery. *Spine (Phila Pa 1976)*. 2016 Apr;41 Suppl 8:S39-43. doi: 10.1097/BRS.0000000000001482. PMID: 26839987

Mathkour M, Garces J, Beard B, Bartholomew A, Sulaiman W and Ware M (2016). Primary High-grade Osteosarcoma of the of the Clivus: A Case Report and Literature Review. *World Neurosurgery* 89(May):730.e9-730.e13 · January 2016. DOI: 10.1016/j.wneu.2016.01.054

Sulaiman W, Dreesen TD. (2014). Effect of local application of transforming growth factor- β at the nerve repair site following chronic axotomy and denervation on the expression of regeneration-associated genes. *Laboratory investigation. J Neurosurg*. 2014 Oct;121(4):859-74. doi: 10.3171/2014.4.JNS131251. Epub 2014 Jul 18. PMID: 25036208

Sulaiman W (2014). Book Review: The Textbook of Spinal Surgery, Third Edition. *Neurosurgery* 74(6):701-02 · June 2014. DOI: 10.1227/NEU.0000000000000208

Valle-Giler EP, Garces J, Smith RD, Sulaiman WA. (2014). One-stage resection of giant invasive thoracic schwannoma: case report and review of literature. *Ochsner J*. 2014 Spring;14(1):135-40. PMID: 24688347

Garces J, Berry JF, Valle-Giler EP, Sulaiman WA. (2014). Intraoperative neurophysiological monitoring for minimally invasive 1- and 2-level transforaminal lumbar interbody fusion: does it improve patient outcome? *Ochsner J*. 2014 Spring;14(1):57-61. PMID: 24688334

Valle-Giler EP, Sulaiman WA. (2014). Midline minimally invasive placement of spinal cord stimulators: a technical note. *Ochsner J*. 2014 Spring;14(1):51-6. PMID: 24688333

Sulaiman WA, Singh M. (2014). Minimally invasive versus open transforaminal lumbar interbody fusion for degenerative spondylolisthesis grades 1-2: patient-reported clinical outcomes and cost-utility analysis. *Ochsner J*. 2014 Spring;14(1):32-7. PMID: 24688330

Sulaiman WA. (2014). From the Editor's Desk. *Ochsner J*. 2014 Spring;14(1):1-2. No abstract available. PMID: 24688323

Sulaiman W and Gordon T (2013). Neurobiology of Peripheral Nerve Injury, Regeneration, and Functional Recovery: From Bench Top Research to Bedside Application. *Ochsner Journal* 13(1):100-8 · March 2013

Maniker AH, Zager E and Sulaiman W (2012). A Systematic Review of Nerve Transfer and Nerve Repair for the Treatment of Adult Upper Brachial Plexus Injury COMMENTS. *Neurosurgery* 71(2):429-429 · August 2012

Sontagg VKH, Sulaiman W (2011). A Comparison of Mesenchymal Precursor Cells and Amnion Epithelial Cells for Enhancing Cervical Interbody Fusion in an Ovine Model COMMENTS. *Neurosurgery* 68(4):1034-1035 · April 2011

Dhall S, Sulaiman W (2011). Lumbar Subdural Hematoma From Intracranial Subarachnoid Hemorrhage Presenting With Bilateral Foot Drop: Case Report COMMENTS. *Neurosurgery* 68(3):E839-E839 · March 2011

Sulaiman W (2011). Neurotrophin 3 Improves Delayed Reconstruction of Sensory Pathways After Cervical Dorsal Root Injury COMMENT. *Neurosurgery* 68(2):461-461 · February 2011

Sulaiman W, Khu K, Midha R (2011). Changes in Tissue Substance P Levels in Patients With Carpal Tunnel Syndrome COMMENTS. *Neurosurgery* 67(6):1660-1661 · December 2010

Ellingson BM, Sulaiman O, Kurpad SN (2010). High-resolution in vivo diffusion tensor imaging of the injured cat spinal cord using self-navigated, interleaved, variable-density spiral acquisition (SNAILS-DTI). *Magn Reson Imaging*. 2010 Nov;28(9):1353-60. doi: 10.1016/j.mri.2010.06.006. Epub 2010 Aug 24.

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Sulaiman OA, Kim DD, Burkett C, Kline DG. (2009). Nerve transfer surgery for adult brachial plexus injury: a 10-year experience at Louisiana State University. *Neurosurgery*. 2009 Oct;65(4 Suppl):A55-62. doi: 10.1227/01.NEU.0000341165.83218.AC. PMID: 19927079

Cherqui A, Sulaiman W and Kline DG (2009). Lipofibrohamartoma in an infant. *Neurosurgery* 65(4):229-235 · October 2009

Cherqui A, Sulaiman W and Kline DG (2009). Resection and nerve grafting of a lipofibrohamartoma of the median nerve: Case report. *Neurosurgery* 65(4 Suppl):A229-35 October 2009 DOI: 10.1227/01.NEU.0000345353.21320.1F

Gordon T, Ladak A, Sulaiman W (2009). Electrical Stimulation for Improving Nerve Regeneration: Where do we Stand? *International Review of Neurobiology* 87:433-44 · February 2009
DOI: 10.1016/S0074-7742(09)87024-4

Gordon T, Chan KM, Sulaiman OA, Udina E, Amirjani N, Brushart TM. (2009). Accelerating axon growth to overcome limitations in functional recovery after peripheral nerve injury. *Neurosurgery*. 2009 Oct;65(4 Suppl):A132-44. doi: 10.1227/01.NEU.0000335650.09473.D3. Review. PMID: 19927058

Sulaiman OA, Gordon T. (2009). Role of chronic Schwann cell denervation in poor functional recovery after nerve injuries and experimental strategies to combat it. *Neurosurgery*. 2009 Oct;65(4 Suppl):A105-14. doi: 10.1227/01.NEU.0000358537.30354.63. Review. PMID: 19927054

Sulaiman W, Huang JH, Kline DG, Zager E and Spinner RJ (2007). T2 contributions to the brachial plexus - Comments. *Neurosurgery* 60(2):18-18 · February 2007

Sulaiman W, Kline DG (2006). Nerve surgery: A review and insights about its future. *Clinical neurosurgery* 53:38-47 · February 2006.

T. Gordon, JG Boyd and OAR Sulaiman (2005). Experimental Approaches to Promote Functional Recovery after Severe Peripheral Nerve Injuries. *Acta Chirurgica Austriaca/European Surgery* 37 (4): 193-203

Sulaiman OAR and Gordon T (2004). Cellular and Molecular interactions after peripheral and central injury. *Biomedical Reviews* 14: 51-62

Sulaiman OAR, , JG Boyd and T. Gordon (2004). "Regeneration in the Peripheral Nervous System of Mammals". In: *Neuroglia* (2nd Edition), Kettenman & Ransom (eds), Chapter 36: 454-466.

Gordon T, Sulaiman O, Boyd JG. (2003). Experimental strategies to promote functional recovery after peripheral nerve injuries. *J Peripher Nerv Syst*. 2003 Dec;8(4):236-50. PMID: 14641648

Sulaiman W, Gordon T (2002). Transforming growth factor-beta and forskolin attenuate the adverse effects of long-term Schwann cell denervation on peripheral nerve regeneration in vivo. *Glia* 37(3):206-18 · March 2002

Sulaiman OA, Midha R, Munro CA, Matsuyama T, Al-Majed A, Gordon T. (2002). Chronic Schwann cell denervation and the presence of a sensory nerve reduce motor axonal regeneration. *Exp Neurol*. 2002 Aug;176(2):342-54. PMID: 12359176

Sulaiman OA, Voda J, Gold BG, Gordon T.(2002). FK506 increases peripheral nerve regeneration after chronic axotomy but not after chronic schwann cell denervation. *Exp Neurol*. 2002 May;175(1):127-37. PMID: 12009765

Sulaiman OA, Gordon T. (2002). Transforming growth factor-beta and forskolin attenuate the adverse effects of long-term Schwann cell denervation on peripheral nerve regeneration in vivo. *Glia*. 2002 Mar 1;37(3):206-18. PMID: 11857679

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Höke A, Gordon T, Zochodne DW, Sulaiman OA. (2002). A decline in glial cell-line-derived neurotrophic factor expression is associated with impaired regeneration after long-term Schwann cell denervation. *Exp Neurol*. 2002 Jan;173(1):77-85. PMID: 11771940

Sulaiman W, Midha R, Munro CA, Gordon T (2001). Regenerating sensory axons inhibit motor axonal regeneration into sensory nerve grafts. *Journal of Reconstructive Microsurgery* 17(5):382-383 · June 2001

Sulaiman OA, Gordon T. (2000). Effects of short- and long-term Schwann cell denervation on peripheral nerve regeneration, myelination, and size. *Glia*. 2000 Dec;32(3):234-46. PMID: 11102965

Tonchev A, Valchanov K, Sulaiman W, Ghenev P, Chaldakov G (1998). A suggestive neurotrophic potential of mast cells in heart and submandibular glands of the rat. *Article · Biomed. Rev.* 9:143-145 March 1998. DOI: 10.14748/bmr.v9.144

Valchanov K, Tonchev A, Sulaiman W, Chaldakov G (1996). Leydig cell-immune cell interaction: an example of neuroendocrine-immune communication in testis (1996). *Article March 1996*. DOI: 10.14748/bmr.v6.168

RELEVANT ABSTRACTS:

Mathkour, M., Garces, J., Cormier, I., Hanna, J., Umansky, D., Caralopoulos, IN., **Sulaiman, OAR.**, Smith, RD., Bui, CJ. Papillary Tumor of the Pineal Region: A Case report and Literature Review of Current Treatment Modalities, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M, Garces, J., Scullen, T., Hanna, J., Umansky, D., Valle-Giler, E., Arrington, T., Lea, G., Biro, E., Bui, CJ., **Sulaiman, OAR.**, Smith, RD. Long Term Outcomes of Deep Brain Stimulation for Parkinson Disease Patients 70 years and Older, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M., Garces, J., Hanna, J., Hicks, J., Berry, JF., Umansky, D., Houghton, D., Bui, CJ., **Sulaiman, OAR.**, Ware, ML., Smith, RD. Optimal Timing in Deep Brain Stimulation Intervention for Parkinson's Disease: Comparison of Early versus Late, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M., Garces, J., Hanna, J., Lee, SX., Kahn, L., Umansky, D., Lea, G., Biro, E., Bui, CJ., **Sulaiman, OAR.**, Smith, RD. Deep Brain Stimulation Outcomes in Early Versus Late Stage Parkinson's Disease, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M., Garces, J., Scullen, T., Hanna, J., Umansky, D., Riffle, JW., Lea, G., Biro, E., Bui, CJ., **Sulaiman, OAR.**, Smith, RD. Consideration of Parkinson's Disease Subtypes in Deep Brain Stimulation, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M., Garces, J., Scullen, T., Valle-Giler, E., Caralopoulos, IN., Berry, JF., Lea, G., Biro, E., Bui, CJ., **Sulaiman, OAR.**, Smith, RD. Surgical Cost of Deep Brain Stimulation and Cost of Best Medical Therapy in Parkinson's Disease, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

Mathkour, M., Garces, J., Huls, T., Umansky, D., Bui, CJ., **Sulaiman, OAR.**, Ware, ML. Giant Intraosseous Hemangioma of the Petrous Bone: A Case Report and Literature Review, *e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.*

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Mathkour, M., Garces, J., Beard, B., Umansky, D., Bui, C.J., **Sulaiman, OAR.**, Ware, ML. Primary High-grade Osteosarcoma of the Clivus: A Case Report and Literature Review e-poster presentation, the 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, taking place April 30-May 4, 2016, Chicago, USA.

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