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Dr. Ausaf A. Bari, MD, PhD
Board Certified in Neurosurgery

Articulate, Board certified Neurosurgeon with more than 15 years of clinical expertise and 1 year of medical-legal expertise. Highly specialized in Neurosurgical Repair and Restoration of the Brain and Nerve Function, including Parkinson's Disease, Tremors, Dystonia, Depression, Obsessive-Compulsive Disorders, Brain Tumors, and Peripheral Nerve Disorders.

EDUCATION

- **University of California, Berkely, CA (1995)**
Bachelor of Arts, Molecular Cell Biology
- **Boston University School of Medicine, Boston, MA (1999)**
Master of Arts
- **Boston University School of Medicine, Boston, MA (2008)**
Doctor of Philosophy, PhD
- **Boston University School of Medicine, Boston, MA (2008)**
Doctor of Medicine, MD
- **University of California, Los Angeles, CA (2009)**
Internship, General Surgery
- **University of California, Los Angeles, CA (2014)**
Residency, Neurosurgery, Chief Resident
- **Toronto Western Hospital, University of Toronto, Toronto, CN (2015)**
Fellowship, Functional Neurosurgery

PROFESSIONAL EXPERIENCE

- **Greater Los Angeles Area VA Healthcare Systems, Attending Neurosurgeon (2016 to 2021)**
- **University of California, Los Angeles, Director of Functional and Restorative Neurosurgery (2021 to present)**

ACADEMIC APPOINTMENTS

- University of California, Los Angeles, Assistant Professor (2016 to present)

LICENSURE AND CERTIFICATION

- American Board of Neurological Surgeons
- California Board Certified Medical License

PROFESSIONAL MEMBERSHIPS

- Congress of Neurological Surgeons, Member
- American Association of Neurological Surgeons, Member
- North American Neuromodulation Society, Member
- American Society of Stereotactic and Functional Neurosurgery, Member

HONORS AND AWARDS

- Honors, 49th Annual Westinghouse Science Talent Search
- Academic Honors, University of California, Berkeley
- Volunteer Service Award, Children's Hospital, Oakland
- E. Gordan Glass Memorial Fund, B.U. School of Medicine
- Mehos Merit Scholarship, \$5,000, B.U. School of Medicine
- Wotiz Family MD/PhD Fellowship, B.U. School of Medicine
- Elizabeth K. Moyer Memorial Prize in Anatomy, B.U. School of Medicine
- Association of Pathology Chairs Honor Society, B.U. School of Medicine
- NIH Ruth L. Kirschstein Individual National Research Service Award (NRSA)
- American Academy of Neurology Research Scholarship
- Norris Cotton Graduate Student Award
- Henry I. Russek Student Achievement Award, B.U. School of Medicine
- Los Angeles Citywide Retzius Neuroanatomy Competition - Third Place
- Los Angeles Citywide Retzius Neuroanatomy Competition – First Place
- Van Wagenen Fellowship, American Association of Neurological Surgeons
- UCLA Exceptional Physician Award
- NIH BRAIN Initiative Show Us Your BRAIN Competition, Second Place

FLUENT LANGUAGES

- English
- Hindi
- Urdu

RESEARCH & PUBLICATIONS

Research

“Electrophysiological Correlates of Opioid Use and Associated Changes in Affect Using Direct Invasive Human Neuronal Recordings” UCLA Center for Study of Opioid Receptors and Drugs of Abuse (CSORDA) \$10,000	2022-2023
“Deep Brain Stimulation of the Subgenual Cingulate Cortex for the Treatment of Medically Refractory Chronic Low Back Pain” Co-Principal Investigator UH3NS113661 National Institute of Neurological Disorders and Stroke \$2,902,274 over 5 years (Direct Costs)	2019-2024
“Visuomotor Prosthetic for Paralysis” Subcontract, Co-Investigator 1UG1EY032039 National Eye Institute \$75,491/year x 5 years (Direct Costs)	2021-2026
“Early Feasibility Study of the Orion Visual Cortical Prostheses” Subcontract Co-Investigator UH3NS103442 National Institute of Neurological Disorders and Stroke \$215,587/year x 5 years (Direct Costs)	2017-2022
“Cardiac Neuromodulation in Humans: Mechanisms & Therapies” Co-Investigator OT2OD028201 NIH Stimulating Peripheral Activity to Relieve Conditions (SPARC) \$6,210/year x 3 years (Direct Costs)	2019-2022
“Responsive Neurostimulation for Post-Traumatic Stress Disorder” Co-Investigator UH3NS107673 National Institute of Neurological Disorders and Stroke \$13,272/year x 5 years (Direct Costs)	2019-2024
“Intracranial Neurophysiological Signatures of Fear and Anxiety in Humans” Co-Investigator	2021-2026

R01MH124761
National Institute of Neurological Disorders and Stroke
\$2,398,716 over 5 years (Direct Costs)

“Transcutaneous Vagus Nerve Stimulation for Impulsivity in Patients with TBI” 2019-present
Casa Colina Centers for Rehabilitation Fellow in Neurorestoration
\$40,000/year x 2 years

“Modulation of Reward by Inhibition of Dopamine and Glutamate Receptors in the Nucleus Accumbens” 2000

Principal Investigator

F31DA14141

National Institute on Drug Abuse

\$38,207/year x 6 years (Direct Costs)

Publications

1. Pierce RC, **Bari AA**. The role of neurotrophic factors in psychostimulant-induced behavioral and neuronal plasticity. *Rev Neurosci*. 2001;12(2):95-110. Review. PubMed PMID: 11392459.
2. Park WK, **Bari AA**, Jey AR, Anderson SM, Spealman RD, Rowlett JK, Pierce RC. Cocaine administered into the medial prefrontal cortex reinstates cocaine-seeking behavior by increasing AMPA receptor-mediated glutamate transmission in the nucleus accumbens. *J Neurosci*. 2002 Apr 1;22(7):2916-25. PubMed PMID: 11923456.
3. Anderson SM, **Bari AA**, Pierce RC. Administration of the D1-like dopamine receptor antagonist SCH-23390 into the medial nucleus accumbens shell attenuates cocaine priming- induced reinstatement of drug-seeking behavior in rats. *Psychopharmacology (Berl)*. 2003 Jul;168(1-2):132-8. Epub 2002 Dec 19. PubMed PMID: 12491029.
4. **Bari AA**, Pierce RC. D1-like and D2 dopamine receptor antagonists administered into the shell subregion of the rat nucleus accumbens decrease cocaine, but not food, reinforcement. *Neuroscience*. 2005;135(3):959-68. Epub 2005 Aug 19. PubMed PMID: 16111825.
5. Sedrak M, Gorgulho A, **Bari A**, Behnke E, Frew A, Gevorkyan I, Pouratian N, DeSalles A. Diffusion tensor imaging (DTI) and colored fractional anisotropy (FA) mapping of the subthalamic nucleus (STN) and the globus pallidus interna (GPi). *Acta Neurochir (Wien)*. 2010 Dec;152(12):2079-84. doi: 10.1007/s00701-010-0813-4. Epub 2010 Oct 3. PubMed PMID: 20890778; PubMed Central PMCID: PMC2991232..
6. Pouratian N, Zheng Z, **Bari AA**, Behnke E, Elias WJ, Desalles AA. Multi-institutional evaluation of deep brain stimulation targeting using probabilistic connectivity-based thalamic segmentation. *J Neurosurg*. 2011 Nov;115(5):995-1004. doi: 10.3171/2011.7.JNS11250. Epub 2011 Aug 19. PubMed PMID: 21854118.
7. Pezeshkian P, DeSalles AA, Gorgulho A, Behnke E, McArthur D, **Bari A**. Accuracy of frame- based stereotactic magnetic resonance imaging vs frame-based stereotactic head computed tomography fused with recent magnetic resonance imaging for postimplantation deep brain stimulator lead localization. *Neurosurgery*. 2011 Dec;69(6):1299-306. doi: 10.1227/NEU.0b013e31822b7069. PubMed PMID: 21725253.

8. Clelland CD, Zheng Z, Kim W, **Bari A**, Pouratian N. Common cerebral networks associated with distinct deep brain stimulation targets for cluster headache. *Cephalalgia*. 2014 Mar;34(3):224-30. doi: 10.1177/0333102413509431. Epub 2013 Oct 16. PubMed PMID: 24133007; PubMed Central PMCID: PMC4197053.
9. McLaughlin N, Martin NA, Upadhyaya P, **Bari AA**, Buxey F, Wang MB, Heaney AP, Bergsneider M. Assessing the cost of contemporary pituitary care. *Neurosurg Focus*. 2014 Nov;37(5):E7. doi: 10.3171/2014.8.FOCUS14445. PubMed PMID: 26223274.
10. **Bari AA**, Fasano A, Munhoz RP, Lozano AM. Improving outcomes of subthalamic nucleus deep brain stimulation in Parkinson's disease. *Expert Rev Neurother*. 2015 Oct;15(10):1151-60. doi: 10.1586/14737175.2015.1081815. Epub 2015 Sep 17. Review. PubMed PMID: 26377740.
11. Mirzadeh Z, **Bari A**, Lozano AM. The rationale for deep brain stimulation in Alzheimer's disease. *J Neural Transm (Vienna)*. 2016 Jul;123(7):775-783. doi: 10.1007/s00702-015-1462-9. Epub 2015 Oct 6. Review. PubMed PMID: 26443701.
12. Alomar S, King NK, Tam J, **Bari AA**, Hamani C, Lozano AM. Speech and language adverse effects after thalamotomy and deep brain stimulation in patients with movement disorders: A meta-analysis. *Mov Disord*. 2017 Jan;32(1):53-63. doi: 10.1002/mds.26924. Review. PubMed PMID: 28124434.
13. Pelargos PE, Nagasawa DT, Lagman C, Tenn S, Demos JV, Lee SJ, Bui TT, Barnette NE, Bhatt NS, Ung N, **Bari A**, Martin NA, Yang I. Utilizing virtual and augmented reality for educational and clinical enhancements in neurosurgery. *J Clin Neurosci*. 2017 Jan;35:1-4. doi: 10.1016/j.jocn.2016.09.002. Epub 2016 Oct 27. Review. PubMed PMID: 28137372.
14. King NKK, Krishna V, Sammartino F, **Bari A**, Reddy GD, Hodaie M, Kalia SK, Fasano A, Munhoz RP, Lozano AM, Hamani C. Anatomical targeting of the optimal location for thalamic deep brain stimulation in patients with essential tremor. *World Neurosurg*. 2017 Jul 31. pii: S1878-8750(17)31236-6. doi: 10.1016/j.wneu.2017.07.136. [Epub ahead of print] PubMed PMID: 28774764.
15. **Bari, A.A.**, Mikell, C.B., Abosch, A., Ben-Haim, S., Buchanan, R.J., Burton, A.W., Carcieri, S., Cosgrove, G.R., D'Haese, P.F., Daskalakis, Z.J. and Eskandar, E.N., 2018. Charting the road forward in psychiatric neurosurgery: proceedings of the 2016 American Society for Stereotactic and Functional Neurosurgery workshop on neuromodulation for psychiatric disorders. *J Neurol Neurosurg Psychiatry*. 2018 Aug;89(8):886-896. doi: 10.1136/jnnp-2017-317082. Epub 2018 Jan 25. PubMed PMID: 29371415.
16. **Bari A**, DeCisare J, Babayan D, Runcie M, Sparks H, Wilson B. Neuromodulation for substance addiction in human subjects: A review. *Neurosci Biobehav Rev*. 2018 Dec;95:33-43. doi: 10.1016/j.neubiorev.2018.09.013. Epub 2018 Sep 27. Review. PubMed PMID: 30268433.
17. Albano L, Rohatgi P, Kashanian A, **Bari A**, Pouratian N. Symptomatic Pneumocephalus after Deep Brain Stimulation Surgery: Report of 2 Cases. *Stereotact Funct Neurosurg*. 2020;98(1):30-36. doi: 10.1159/000505078. Epub 2020 Feb 4. PubMed PMID: 32018273.

18. Avecillas-Chasin JM, Justo M, Levinson S, Koek R, Krahl SE, Chen JW, Lee SJ, Langevin JP, **Bari A**. Structural correlates of emotional response to electrical stimulation of the amygdala in subjects with PTSD. *Brain Stimul.* 2020 Mar - Apr;13(2):424-426. doi: 10.1016/j.brs.2019.12.004. Epub 2019 Dec 10. PubMed PMID: 31884187.
19. Lai G, Langevin JP, Koek RJ, Krahl SE, **Bari AA**, Chen JW. Acute Effects and the Dreamy State Evoked by Deep Brain Electrical Stimulation of the Amygdala: Associations of the Amygdala in Human Dreaming, Consciousness, Emotions, and Creativity. *Front Hum Neurosci.* 2020;14:61. doi: 10.3389/fnhum.2020.00061. eCollection 2020. PubMed PMID: 32158384; PubMed Central PMCID: PMC7052301.
20. Sparks H, Riskin-Jones H, Price C, DiCesare J, Bari A, Hashoush N, Pouratian N. Impulsivity Relates to Relative Preservation of Mesolimbic Connectivity in Patients with Parkinson Disease. *Neuroimage Clin.* 2020;27:102259. doi: 10.1016/j.nicl.2020.102259. Epub 2020 Apr 22. PMID: 32361415; PMCID: PMC7200442.
21. **Bari AA**, Sparks H, Levinson S, Wilson B, London ED, Langevin JP, Pouratian N. Amygdala Structural Connectivity Is Associated With Impulsive Choice and Difficulty Quitting Smoking. *Front Behav Neurosci.* 2020 Jul 3;14:117. doi: 10.3389/fnbeh.2020.00117. PMID: 32714164; PMCID: PMC7351509.
22. Kashanian A, DiCesare JAT, Rohatgi P, Albano L, Krahl SE, **Bari A**, De Salles A, Pouratian N. Case Series: Deep Brain Stimulation for Facial Pain. *Oper Neurosurg (Hagerstown).* 2020 Oct 15;19(5):510-517. doi: 10.1093/ons/opaa170. PMID: 32542398.
23. Omidbeigi M, Mousavi MS, Meknatkhah S, Edalatfar M, **Bari A**, Sharif-Alhoseini M. Telemetric Intracranial Pressure Monitoring: A Systematic Review. *Neurocrit Care.* 2020 May 19. doi: 10.1007/s12028-020-00992-6. Epub ahead of print. PMID: 32430803.
24. Murray SB, Strober M, Tadayonnejad R, **Bari AA**, Feusner JD. Neurosurgery and neuromodulation for anorexia nervosa in the 21st century: a systematic review of treatment outcomes. *Eat Disord.* 2020 Sep 29:1-28. doi: 10.1080/10640266.2020.1790270. Epub ahead of print. PMID: 32991247.
25. Tadayonnejad R, Wilson AC, Corlier J, Lee JC, Ginder ND, Levitt JG, Wilke SA, Marder KG, Krantz D, **Bari AA**, Feusner JD, Pouratian N, Leuchter AF. Sequential multi-locus transcranial magnetic stimulation for treatment of obsessive-compulsive disorder with comorbid major depression: A case series. *Brain Stimul.* 2020 Nov-Dec;13(6):1600-1602. doi: 10.1016/j.brs.2020.10.003. Epub 2020 Oct 13. PMID: 33065361.
26. Edalatfar M, Piri SM, Mehrabinejad MM, Mousavi MS, Meknatkhah S, Fattahi MR, Kavyani Z, Hajighadery A, Kaveh M, Aryannejad A, Ghafouri M, Jamshidi E, Rezwani MM, Sadeghi-Naini M, **Bari A**, Sharif-Alhoseini M. Biofluid Biomarkers in Traumatic Brain Injury: A Systematic Scoping Review. *Neurocrit Care.* 2021 Jan 5. doi: 10.1007/s12028-020-01173-1. Epub ahead of print. PMID: 33403583.
27. Sui Y, Tian Y, Ko WKD, Wang Z, Jia F, Horn A, De Ridder D, Choi KS, **Bari AA**, Wang S, Hamani C, Baker KB, Machado AG, Aziz TZ, Fonoff ET, Kühn AA, Bergman H, Sanger T, Liu H, Haber SN, Li L. Deep Brain Stimulation Initiative: Toward Innovative Technology, New Disease Indications, and Approaches to Current and Future Clinical Challenges in Neuromodulation Therapy. *Front Neurol.* 2021 Jan 28;11:597451. doi: 10.3389/fneur.2020.597451. PMID: 33584498; PMCID: PMC7876228.

28. Kashanian A, Tsolaki E, Pouratian N, **Bari AA**. Deep Brain Stimulation of the Subgenual Cingulate Cortex for the Treatment of Chronic Low Back Pain. *Neuromodulation*. 2021 Apr 19. doi: 10.1111/ner.13388. Epub ahead of print. PMID: 33872423.
29. Tadayonnejad R, Pizzagalli F, Murray SB, Pauli WM, Conde G, **Bari AA**, Strober M, O'Doherty JP, Feusner JD. White matter tracts characteristics in habitual decision-making circuit underlie ritual behaviors in anorexia nervosa. *Sci Rep*. 2021 Aug 5;11(1):15980. doi: 10.1038/s41598-021-95300-3. PMID: 34354139; PMCID: PMC8342714.
30. Spivak NM, Tyler WJ, **Bari AA**, Kuhn TP. Ultrasound as a Neurotherapeutic: A Circuit-and System-Based Interrogation. *Focus*. 2022 Jan;20(1):32-5.
31. Tadayonnejad R, Majid DA, Tsolaki E, Rane R, Wang H, Moody TD, Pauli WM, Pouratian N, **Bari AA**, Murray SB, O'Doherty JP, Feusner JD. Mesolimbic Neurobehavioral Mechanisms of Reward Motivation in Anorexia Nervosa: A Multimodal Imaging Study *Front Psychiatry*. 2022 Mar 7;13:806327. doi: 10.3389/fpsy.2022.806327. PMID: 35321230; PMCID: PMC8934777.