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Xiaofeng Jia, BM, PhD

Academic Title:

Associate Professor

Primary Appointment:

Neurosurgery

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Education and Training

M.D., Clinical Medicine, Zhengjiang Medical University, 1994

M.S., Surgery, Shanghai Medical University, 1997

Ph.D., Surgery (Orthopaedics), Fudan University, 2003

Post-doctoral training, Biomedical Engineering, Johns Hopkins University, 2004-2007

Biosketch

Xiaofeng Jia, B.M., M.S., Ph.D. directs the [Translational Neuroengineering and Neuroscience Laboratory](#) at University of Maryland, Baltimore (UMB). He is an associate professor of the Department of Neurosurgery at the University of Maryland School of Medicine, Department of Orthopaedics, Anatomy Neurobiology, and an adjunct associate professor of the Department of Biomedical Engineering and Anesthesiology & Critical Care Medicine at Johns Hopkins University School of Medicine. He has been a Faculty since 2007 and was the Associate Research Professor in the Department of Biomedical Engineering, Physical Medicine and Rehabilitation, Anesthesiology & Critical Care Medicine at Johns Hopkins University. He completed his surgery residency in the Huashan Hospital and Orthopedic Surgery fellowship in the Shanghai 6th People's Hospital. He had been an Attending Surgeon in the Department of Orthopaedics at the Shanghai 6th People's Hospital and later the Zhongshan Hospital.

Dr. Jia is a Chartered member of NIH study section for [Acute Neural Injury and Epilepsy study section \[ANIE\]](#) and has been serving as an ad-hoc member of NIH study sections for ZRG1 BDCN-K Member Conflict Special Emphasis Panel [Brain Disorders and Clinical Neuroscience Integrated Review Group]; ZRG1 CFS-N (80) S Member Conflict Special Emphasis Panel; Clinical Neuroplasticity and Neurotransmitters [CNNT]; Biomaterials & Biointerfaces [BMBI]; Acute Neural Injury and Epilepsy [ANIE]; Brain Injury and Neurovascular Pathologies [BINP]; and ETTN-10 Clinical Neurophysiology, Devices, Neuroprosthetics and Biosensors Small Business Panel. He has been the invited ad hoc reviewer for the Department of Veterans Affairs, Research and Development Service (RR&D); National Natural Science Foundation of China (NSFC) Key Program and General Program of Department of Health Sciences panel meeting; EUROPEAN COMMISSION Research Executive Agency (REA); United Kingdom Medical Research Council; Hong Kong Research Grants Council; American Heart Association; Society of Critical Care Medicine; United Kingdom National Institute of Academic Anaesthesia (NIAA) et al. He is the Editor in Chief of International Journal of Molecular Sciences, co-executive Editor in Chief of Translational Critical Care Medicine, and the guest editors for the Special issues for the International Journal of Molecular Sciences and BioMed Research International. He is Adhoc Peer Reviewer of 30+ international SCI journals. Dr. JIA is the member of the American Academy of Orthopaedic Surgeons (AAOS) (basic science), American Association for Hand Surgery (AAHS), Scientific Review committee member and Research Section Steering Committee member of Society of Critical Care Medicine (SCCM).

Research/Clinical Keywords

Brain monitoring and therapeutic hypothermia; brain recovery after cardiac arrest, peripheral nerve injury and regeneration; bone regeneration; and stem cell therapy

Highlighted Publications

- Du J, Chen H, Qing L, Yang X, **Jia X***. Biomimetic Neural Scaffolds: A Crucial Step Towards Optimal Peripheral Nerve Regeneration. *Biomater Sci.*2018 May 29;6(6):1299-1311. doi: 10.1039/c8bm00260f. Epub 2018 May 4 [PMID: 29725688](#)
- Li R[#], Li Y[#], Wu Y, Zhao Y, Chen H, Yuan Y, Xu K, Zhang H, Lu Y, Wang J, Li X, **Jia X***, Xiao J*. Heparin-Poloxamer Thermosensitive Hydrogel Loaded with bFGF and NGF Enhances Peripheral Nerve Regeneration in Diabetic Rats.

Biomaterials 2018 Jun;168:24-37. doi: 10.1016/j.biomaterials.2018.03.044. Epub 2018 Mar 26 [PMID: 29609091](#)

- Wang Q[#], Zhang H[#], Xu H[#], Zhao Y, Li Z, Li J, Wang H, Zhuge D, Guo X, Xu H, Jones S, Li X, **Jia X***, Xiao J*. Novel multi-drug delivery hydrogel using scar-homing liposomes improves spinal cord injury repair. *Theranostics* 2018; 8(16):4429-4446. doi:10.7150/thno.26717
- He J, Lu H, Young L, Deng R, Callow D, Tong S, **Jia X***. Real-time quantitative monitoring of cerebral blood flow by laser speckle contrast imaging after cardiac arrest with targeted temperature management. *Journal of Cerebral Blood Flow and Metabolism*. 2017 Jan 1:271678X17748787. doi: 10.1177/0271678X17748787. [Epub ahead of print] [PMID: 29283290](#)
- Johnson BN, Lancaster KZ, Zhen G, He J, Gupta MK, Kong YL, Engel EA, Krick KD, Ju A, Meng F, Enquist LW, **Jia X***, McAlpine MC*. 3D Printed Nerve Regeneration Pathways. *Advanced Functional Materials* 2015 October 21; 25 (39): 6205–6217. [Epub 2015 SEP 18], [PMID: 26924958](#) (* indicate Co-corresponding authors) **Highlighted in [NIH Research Matters](#) and [NIH 2015 Research Highlights](#)**
- Lewitus D, Vogelstein J, Zhen G, Choi YS, Kohn J, Harshbarger S, **Jia X***. Designing Tyrosine-derived Polycarbonate Polymers for Biodegradable Regenerative Type Neural Interface Capable of Neural Recording. *IEEE Trans Neural Syst Rehabil Eng*. 2011 Apr;19(2):204-12. Epub 2010 Dec 10. PMID: [21147598](#)
- **Jia X**, Ji JH, Petersen S, Freehill MT, McFarland EG. An Analysis of Shoulder Laxity in Patients Undergoing Shoulder Surgery. *The Journal of Bone and Joint Surgery (AM)* 2009 Sep;91(9):2144-50 PMID: [19723991](#)
- **Jia X***, Koenig MA, Nickl R, Zhen G, Thakor NV, Geocadin RG. Early Electrophysiologic Markers Predict Functional Outcome Associated with Temperature Manipulation after Cardiac Arrest in Rats. *Critical Care Medicine* 2008; 36 (6):1909-16 PMID: [18496359](#) **Highlighted in [Editorials]** by Tempelhoff, René MD; Yoder, Jeffrey MD. Monitoring the brain: Lack of tools or lack of will? *Critical Care Medicine* 2008; 36 (6):1983-1984

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