


## Curriculum Vitae

Personal Information	
Title	Professor
Name	Byung Gon Kim
Degree	MD, PhD
Country	South Korea
Affiliation	Ajou University School of Medicine
	
Educational Background	
2001-2005	<b>Ph.D.</b> in Interdisciplinary Program in Neuroscience, Georgetown University, School of Medicine, Washington, DC, USA
1996-1998	<b>M.S.</b> in Medical Science (Neuroanatomy concentration) Seoul National University, College of Medicine
1987-1993	<b>M.D.</b> in Medical Science Seoul National University, College of Medicine, Seoul, Korea
Professional Career	
2021- 2024	<b>Director</b> , AI Superconvergence KIURI Translational Research Center
2015- 2020	<b>Director</b> , BK21 biomedical science research center
2013- 2023	<b>Chair</b> , Department of Brain Science, Ajou University School of Medicine
2010- 2011	<b>Visiting assistant professor</b> , Department of Neurology, Yale University School of Medicine
2005- present	<b>Professor</b> , Departments of Brain Science and Neurology, Ajou University School of Medicine
1994-1998	<b>Residency in Adult Neurology</b> , Seoul National University Hospital, Seoul, Korea
Research Field	
<b>Neural repair and functional recovery; Vascular neurodegeneration, Neurological disease</b>	
Main Scientific Publications	
1. Kim HS, Jee SA, Einisadr A, Yeojin Seo, Seo HG, Jang BS, Park HH, Chung WS, <b>Kim BG</b> . Detrimental influence of Arginase-1 in infiltrating macrophages on poststroke functional recovery and inflammatory milieu. <b>Proc Natl Acad Sci U S A</b> . 2025 Feb 14. <a href="https://doi.org/10.1073/pnas.241348412">doi.org/10.1073/pnas.241348412</a>	
2. Choi JY, Jin X, Kim HK, Koh SY, Cho HJ, <b>Kim BG</b> . High Mobility Group Box 1 as an Autocrine Chemoattractant for Oligodendrocyte Lineage Cells in White Matter Stroke. <b>Stroke</b> . 2023 Feb;54(2):575-586. doi: <a href="https://doi.org/10.1161/STROKEAHA.122.041414">10.1161/STROKEAHA.122.041414</a> .	
3. Park HH, Kim YM, Anh Hong LT, Kim HS, Kim SH, Jin X, Hwang DH, Kwon MJ, Song SC, <b>Kim BG</b> . Dual-functional hydrogel system for spinal cord regeneration with sustained release of arylsulfatase B alleviates fibrotic microenvironment and promotes axonal regeneration. <b>Biomaterials</b> . 2022 May;284:121526. doi: 10.1016/j.biomaterials.2022.121526.	
4. Kwon MJ, Seo YJ, Cho HN, Kim HS, Oh YJ, Simay G, Kim MJ, Park HH, Joe EH, Kwon MH, Kang HC, <b>Kim BG</b> . Nanogel-mediated delivery of oncomodulin secreted from regeneration-associated macrophages promotes sensory axon regeneration in the spinal cord. <b>Theranostics</b> . 2022 Aug 1;12(13):5856-5876. doi:10.7150/thno.73386.	
5. Shin HY, Kwon MJ, Lee EM, Kim K, Oh YJ, Kim HS, Hwang DH, <b>Kim BG</b> . Role of Myc proto-oncogene as a transcriptional hub to regulate the expression of regeneration-associated genes following preconditioning peripheral nerve injury. <b>J Neurosci</b> . 2021 Jan 20;41(3):446-460. doi: 10.1523/JNEUROSCI.1745-20.2020.	
6. Hong LTA, Kim YM, Park HH, Hwang DH, Cui Y, Lee EM, Yahn S, Lee JK, Song SC, <b>Kim BG</b> . An injectable hydrogel enhances tissue repair after spinal cord injury by promoting extracellular matrix remodeling. <b>Nat Commun</b> . 2017 Sep 14;8(1):533. doi: <a href="https://doi.org/10.1038/s41467-017-00583-8">10.1038/s41467-017-00583-8</a> .	
7. Choi JY, Cui Y, Chowdhury ST, <b>Kim BG</b> . High-mobility group box-1 as an autocrine trophic factor in white matter stroke. <b>Proc Natl Acad Sci U S A</b> . 2017 Jun 5. doi: <a href="https://doi.org/10.1073/pnas.1702035114">10.1073/pnas.1702035114</a> .	
8. Kwon MJ, Shin HY, Cui Y, Kim H, Thi AH, Choi JY, Kim EY, Hwang DH, <b>Kim BG</b> . CCL2 Mediates Neuron-Macrophage	



Interactions to Drive Proregenerative Macrophage Activation Following Preconditioning Injury. **J Neurosci.** 2015 Dec 2;35(48):15934-47. doi:[10.1523/JNEUROSCI.1924-15.2015](https://doi.org/10.1523/JNEUROSCI.1924-15.2015).

9. Hwang DH, Shin HY, Kwon MJ, Choi JY, Ryu BY, Kim BG. Survival of neural stem cell grafts in the lesioned spinal cord is enhanced by a combination of treadmill locomotor training via insulin-like growth factor-1 signaling. **J Neurosci.** 2014 Sep 17;34(38):12788-800. doi: 10.1523/JNEUROSCI.5359-13.2014.

10. Kwon MJ, Kim J, Shin H, Jeong SR, Kang YM, Choi JY, Hwang DH, **Kim BG.** Contribution of macrophages to enhanced regenerative capacity of dorsal root ganglia sensory neurons by conditioning injury. **J Neurosci.** 2013 Sep 18;33(38):15095-108. doi: [10.1523/JNEUROSCI.0278-13.2013](https://doi.org/10.1523/JNEUROSCI.0278-13.2013).