

# Curriculum Vitae

## 1. General information

<b>Name</b>	Sung Joon Kim		
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## 2. Educational background & professional experience

<b>Year</b>	<b>Affiliation</b>	<b>Position</b>
2004-present	Seoul National University College of Medicine	Associate Professor and Full Professor
2000-2004	Sungkyunkwan University School of Medicine	Assistant Professor
1998-2000	University of Freiburg, Germany, Physiology Institute	Alexander von Humboldt Research Fellow
1991-1997	Seoul National University College of Medicine	M.S. and Ph.D.
1985-1991	Seoul National University College of Medicine	M.D.

## 3. Research interests

<ol style="list-style-type: none"><li>1. Cardiovascular Physiology ,</li><li>2. Oxygen and Mechano-sensing Ion Channels,</li><li>3. Exercise training effects on artery</li></ol>
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## 4. List of major publications

1. Kim HJ, Yoo HY, Jang JH, Lin HY, Seo EY, Zhang YH, **Kim SJ**. Wall stretch and thromboxane A<sub>2</sub> activate NO synthase (eNOS) in pulmonary arterial smooth muscle cells via H<sub>2</sub>O<sub>2</sub> and Akt-dependent phosphorylation. *Pflugers Arch.* 2016;468(4):705-16.
2. Choi SW, Lee HA, Moon SH, Park SJ, Kim HJ, Kim KS, Zhang YH, Youm JB, **Kim SJ**. Spontaneous inward currents reflecting oscillatory activation of Na(+)/Ca(2+) exchangers in human embryonic stem cell-derived cardiomyocytes. *Pflugers Arch.*;468(4):609-22.
3. Kim KS, Jang JH, Lin H, Choi SW, Kim HR, Shin DH, Nam JH, Zhang YH, **Kim SJ**. Rise and Fall of Kir2.2 Current by TLR4 Signaling in Human Monocytes:PKC-Dependent Trafficking and PI3K-Mediated PIP2 Decrease. *J Immunol.* 2015;195(7):3345-54.
4. Seo EY, Kim HJ, Zhao ZH, Jang JH, Jin CZ, Yoo HY, Zhang YH, **Kim SJ**. Low K<sup>+</sup> current in arterial myocytes with impaired K<sup>+</sup>-vasodilation and its recovery by exercise in hypertensive rats. *Pflugers Arch.* 2014;466(11):2101-11.
5. Shin DH, Lin H, Zheng H, Kim KS, Kim JY, Chun YS, Park JW, Nam JH, Kim WK, Zhang YH, **Kim SJ**. HIF-1 $\alpha$ -mediated upregulation of TASK-2 K<sup>+</sup> channels augments Ca<sup>2+</sup> signaling in mouse B cells under hypoxia. *J Immunol.* 2014;193(10):4924-33.
6. Han JA, Seo EY, Kim HJ, Park SJ, Yoo HY, Kim JY, Shin DM, Kim JK, Zhang YH, **Kim SJ**. Hypoxia-augmented constriction of deep femoral artery mediated by inhibition of eNOS in smooth muscle. *Am J Physiol Cell Physiol.* 2013;304(1):C78-88.
7. Yoo HY, Park SJ, Seo EY, Park KS, Han JA, Kim KS, Shin DH, Earm YE, Zhang YH, **Kim SJ**. Role of thromboxane A<sub>2</sub>-activated nonselective cation channels in hypoxic pulmonary vasoconstriction of rat. *Am J Physiol Cell Physiol.* 2012;302(1):C307-17.