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BMP signaling in skeletal muscle and bone

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Curriculum Vitae

SongTing Shi was born on 26 September 1982 in Longyan, Fujian Province, PR.China. She attended NO.1 Middle School of Longyan from 1994 to 2000. From September 2000 to June 2004, SongTing were studying biology in Nankai University, Tianjin. From February 2004 to June 2004, she received her first internship training in Tianjin Biochip Corporation (PR China). There under the supervision of Professor Wang Lei, she joined in the project the sequencing and the preliminary functions analysis of the O-antigen gene clusters of E.Coli O86, which finally became her bachelor thesis. In June 2004, SongTing got her bachelor degree from Nankai University, and went to Tsinghua University in September 2004 for master degree study, specialized in developmental biology, under the supervision of Professor Luo Hong. In Tsinghua University, SongTing studied the role of JAK/STAT pathway in leukemia using *Drosophila* as the animal model, and got her Master of Science certification in July 2007 from Tsinghua University. From Oct.2007 to Oct.2011, SongTing joined for her PhD studies the group of Professor Peter ten Dijke at the department of Molecular Cell Biology of the Leiden University Medical Center in Leiden (the Netherlands). The research performed in this period has resulted in this thesis. SongTing will move back to Shanghai after she obtains the PhD.

List of Publication

- 1) Song K, Krause C, Shi S, Patterson M, Suto R, Grgurevic L, Vukicevic S, van Dinther M, Falb D, Ten Dijke P, Alaoui-Ismaili MH. Identification of a key residue mediating bone morphogenetic protein (BMP)-6 resistance to noggin inhibition allows for engineered BMPs with superior agonist activity. *J Biol Chem*. 2010 Apr 16;285(16):12169-80.
- 2) Shi S*, Hoogaars WM*, de Gorter DJ, van Heiningen SH, Lin HY, Hong CC, Kemaladewi DU, Aartsma-Rus A, ten Dijke P, 't Hoen PA. BMP antagonists enhance myogenic differentiation and ameliorate the dystrophic phenotype in a DMD mouse model. *Neurobiol Dis*. 2011 Feb;41(2):353-60. *These authors contributed equally
- 3) Zhang L*, Shi S*, Zhang J, Zhou F, ten Dijke P. Wnt/ β -catenin signaling changes C2C12 myoblast proliferation and differentiation by inducing Id3 expression. *Biochem Biophys Res Commun*. 2012 Mar 2;419(1):83-8. *These authors contributed equally
- 4) Shi S, de Gorter DJ, Hoogaars WM, 't Hoen PA, Ten Dijke P. Overactive bone morphogenetic protein signaling in heterotopic ossification and Duchenne muscular dystrophy. *Cell Mol Life Sci*. 2012 Jul 4.