

# Curriculum Vitae

**Sang-Jin Kim**

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**122 Plant Biology**

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## Education:

- Ph.D. Genetics, Iowa State University, 2003 - 2010
- B.A, Genetic engineering, Korea University, Seoul, Korea, 1995-2002

From 1997-1999, military services at army

## Research Experience:

- Graduate student researcher (Iowa State University), 2003 – 2010  
Project : Arabidopsis vacuolar trafficking component in TGN  
Advisor : Dr. Diane C. Bassham
- Research associate (GLBRC, Michigan State University), Aug 2010 –

## Publications:

- Contento AL, **Kim SJ**, Bassham DC (2004) Transcriptome profiling of the response of Arabidopsis suspension culture cells to Suc starvation. *Plant Physiology* **135**: 2330-2347
- Phan NQ, **Kim SJ**, Bassham DC (2008) Overexpression of Arabidopsis Sorting Nexin AtSNX2b Inhibits Endocytic Trafficking to the Vacuole. *Molecular Plant* **1**: 961-976
- **Kim SJ** and Bassham DC (2011) TNO1 is involved in salt tolerance and vacuolar

trafficking in Arabidopsis. *Plant Physiology* **156**: 514-526

- **Kim SJ** and Brandizzi F (2012) News and Views into the SNARE Complexity in Arabidopsis. *Frontiers in Plant Science* **3**:28
- Ruiz-May E, **Kim SJ**, Brandizzi F, Rose JK (2012) The secreted plant N-glycoproteome and associated secretory pathways. *Frontiers in Plant Science* **3**:117
- **Kim SJ** and Bassham DC (2013) Functional redundancy between trans-Golgi network SNARE family members in Arabidopsis thaliana. *BMC Biochemistry* **14**:22

### **Presentations:**

- Sang-Jin Kim, Starla Zemelis, Saunia Withers, Curtis Wilkerson and Federica Brandizzi (2013). Homogalacturonan biosynthesis and methylesterification in Arabidopsis depend on a family of plant-specific Golgi-associated proteins. **Oral presentation** at the 13th Cell wall meeting, Nante, France
- Sang-Jin Kim, Starla Zemelis, Saunia Withers, Curtis Wilkerson and Federica Brandizzi (2012). Discovery of Novel Genes Regulating Polysaccharide Secretion and Biosynthesis. **Oral presentation** at the Midwest cell wall meeting, Madison, WI, USA
- Sang-Jin Kim, Starla Zemelis, Saunia Withers, Curtis Wilkerson and Federica Brandizzi (2011). Discovery of Novel Genes Regulating Polysaccharide Secretion and Biosynthesis. **Invited oral presentation** at the Pittsburgh Conference, Atlanta, GA, USA
- Sang-Jin Kim and Diane C. Bassham (2008). Role of vacuolar trafficking component in Arabidopsis. **Oral presentation** at the Midwestern meeting of the American Society of Plant Biologist, Ames, IA, USA
- Sang-Jin Kim and Diane C. Bassham (2007). Characterization of Arabidopsis vacuolar trafficking component. **Oral presentation** at CPRES fall seminar series, Ames, IA, USA.

- **Sang-Jin Kim** and Diane C. Bassham (2006). A putative vacuolar trafficking component in *Arabidopsis*. **Poster** presented at the Annual Meeting of the American Society of Plant Biologist, Boston, MA, USA
- **Sang-Jin Kim** and Diane C. Bassham (2007). Characterization of Arabidopsis Vacuolar trafficking component in TGN. **Poster** presented at the Annual Meeting of the American Society of Plant Biologist, Chicago, IL, USA

### **Research Skills:**

- General molecular biology skill : gene cloning, northern and western blot
- Transient expression : making protoplast from plant leaf and suspension cell culture and transforming plasmid into the protoplast
- Generating transgenic plant : Agro mediated transformation and crossing plant
- Microscopy : uv-light microscope, confocal microscope
- Immunofluorescence : fixing, sectioning Arabidopsis seedling and labeling with antibody
- Membrane and organelle isolation : separating organelle using sucrose cushion
- In-vitro protein expression : express protein in *E.coli* and purify protein using column
- Proteomic skill : isolating vacuole and running 2D gel, apoplastic wash fluid prep
- Biochemical technique : making reconstituted liposome with protein

### **Teaching Experience:**

- Teaching Assistant, 2004  
Iowa State University  
Courses: Gen596X Genomic data processing
- Teaching Assistant, 2005

Iowa State University

Courses: Bio 155 Introduction to the human body

- Teaching Assistant, 2006, 2007

Iowa State University

Courses: Gen 308 Biotechnology in agriculture, food and human health

- Guiding graduate rotation student and undergraduate student, 2006, 2007

Iowa State University

I have mentored Lisa Grantham, Dan Hand, and Holly Tang as their research advisor. I

helped them to achieve their own research into plant genomic and proteomic.