

Si Hong Park

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Research Interests

- Interactions between pathogens and host cell.
- Detection of food borne pathogens.
- Physiology and genetic characteristics of pathogenic bacteria.
- Diversity of microbes (genomics of microbes) including intestinal and food borne microorganisms.

Education

- Aug. 2004 - Aug. 2006 **Kyung Hee University**
M.S. in Food Science and Biotechnology (Food Biochemistry)
G.P.A : 4.26/4.3
Scholarship : Aug. 2004, Mar. 2005, Aug. 2005, Mar. 2006
- Mar. 1998 - Aug. 2004 **Kyung Hee University**
B.S. in Food Science and Biotechnology
G.P.A : 3.54/4.3
Scholarship : Aug. 2003, Mar. 2004

Work Experiences

- Mar. 2008 - Present Researcher (Kyung Hee Univ. Food Biochemistry Core Laboratory)
- Dec. 2006 - Feb. 2008 Researcher (Nong Shim Co. Ltd., R&D Center)
- Jul. 2006 - Nov. 2006 Research Assistant
- Mar. 2006 - Jul. 2006 Teacher Assistant
- Sep. 2004 - Mar. 2006 Student President of Food Science Graduate School
- Sep. 2002 - Sep. 2004 Undergraduate Research Assistant
- Mar. 1999 - Feb. 2000 Food Science Sophomore Representative

Military Service

- Mar. 2000 - Jul. 2002 Military Service in Seoul National University Museum as Assistant Curator

Skill Summary

- Microarray : genotyping of microorganisms, expression pattern of microorganisms.
- PCR, Real-Time PCR, RAPD and DNA-based experiments.
- Plasmid isolation, Genomic DNA isolation, Transformation, Western blotting, Gel electrophoresis, Microbiological tests, etc.
- SDS-PAGE, gene cloning, over expression of protein and protein purification.
- Basic bacteria experimentation techniques culture and isolation of anaerobic bacteria(fermentor), etc.
- Knowledge of simple instruments used in labs, like colorimeter, pH meter, centrifuge, fermentor, Spectrophotometers, Electron Microscopy, etc.

Publications

1. Si Hong Park, Hyun Joong Kim, Woo Hee Cho, Jae Hwan Kim, Mi Hwa Oh, Sung Hun Kim, Bok Kwon Lee, and Hae Yeong Kim, Identification of *Salmonella enterica* subspecies I, *Salmonella enterica* serovars Typhimurium, Enteritidis and Typhi using multiplex PCR, *FEMS Microbiology Letters*, 2009 – under revision
2. Jae-Whan Kim, **Si-Hong Park**, and Hae-Yeong Kim, Multiplex PCR Detection of Four GM Maize (Event 3272, LY038, MIR162, and MON88017), *J. Korean Soc. Appl. Biol. Chem*, 52(1):105-107, **2009**
3. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Development of Foo-Borne Pathogen Specific Markers Using Comparative Genomics, *Institute of Life Science & Resources*, 27:7-11, **2008**
4. Hye Song Han, Joong-Lim Lee, **Si-Hong Park**, Jae-Hwan Kim, and Hae-Yeong Kim, Expression of Human Heavy-Chain and Light-Chain Ferritins in *Saccharomyces cerevisiae* for Functional Foods and Feeds, *Korean J. Microbiol. Biotechnol* – 36(3):221-226, **2008**
5. Hyun-Joong Kim, **Si-Hong Park**, Tae-Ho Lee, Baek-Hie Nahm, Young-Rok Kim and Hae-Yeong Kim, Microarray Detection of Food-borne Pathogens Using Specific Probes Prepared by Comparative Genomics, *Biosensors & Bioelectronics*, 24:238-246, **2008**

6. Hee-Jin Park, Hyun-Joong Kim, **Si-Hong Park**, Eun-Gyeong Shin, Jae-Hwan Kim, and Hae-Yeong Kim*, Direct and Quantitative Analysis of *Salmonella Enterica* Serovar Typhimurium Using Real-Time PCR from Artificially Contaminated Chicken Meat, *J. Microbiol. Biotechnol.*, 18:1453-1458, **2008**
7. **Si-Hong Park**, Hyun-Joong Kim, Jae-Hwan Kim, and Hae-Yeong Kim, Simultaneous Detection and Identification of *Bacillus cereus* Group Bacteria Using Multiplex PCR, *J. Microbiol. Biotechnol.*, 17(7):1177-1182, **2007**
8. **Si-Hong Park**, Sang-Hoon Jung, Hyun-Joong Kim, Yun-Hee Chung, and Hae-Yeong Kim, Classification of Meat-based *Listeria monocytogenes* Using Whole-cell Protein Patterns and Serotyping Analysis, *Food Sci. Biotechnol.*, 15:324-327, **2006**
9. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Simultaneous Detection of *Yersinia enterocolitica*, *Staphylococcus aureus*, and *Shigella* spp. in Lettuce Using Multiplex PCR Method, *J. Microbiol. Biotechnol.*, 16(8):1301-1305, **2006**
10. Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, Comparison of *Salmonella Enterica* Serovar Typhimurium LT2 and Non-LT2 *Salmonella* Genomic Sequence, and Genotyping of Salmonellae by Using PCR, *Appl. Environ. Microbiol.*, 72:6142-6151, **2006**
11. Hyun-Joong Kim, **Si-Hong Park**, Tae-Ho Lee, Bac-Hee Nahm, Yun-Hee Chung, Kun-Ho Seo, and Hae-Yeong Kim, Identification of *Salmonella Enterica* Serovar Typhimurium Using Specific PCR Primers Obtained by Comparative Genomics in *Salmonella* Serovars, *J. Food Prot.*, 69(7):1653-1661, **2006**
12. Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, Classification of *Listeria monocytogenes* Isolates from Korean Domestic Foods Using Random Amplification of Polymorphic DNA and Serotyping Analysis, *Korean J. Microbiol. Biotechnol.*, 34(1):23-27, **2006**
13. **Si-Hong Park**, Hee-Sung Song, Ji-Yeon Lee, and Hae-Yeong Kim. Identification of *Bifidobacteria* Using PCR and SDS-PAGE. *Institute of Life Science & Resources.*, 24:20-22, **2005**

Patent (Domestic)

1. Simultaneous Detection and Identification Method of *Bacillus cereus* Group Bacteria Using Multiplex PCR.
Application Number : 10-2006-0103642
Registration Number : 10-0809547

Oral Presentations

1. Novel Specific Probes of *Salmonella Enterica* Serovar Typhimurium, Typhi and Multiplex PCR for Pathogenic *Salmonella*, *The Korean Society for Microbiology and Biotechnology*, **2005**
2. Identification of *Bifidobacteria* Using by PCR and SDS-PAGE, Kyung Hee University Graduate School academic meeting (Spring), **2005**
3. Food-borne Pathogens, Kyung Hee University Graduate School academic meeting (Autumn), **2005**

Abstracts Announced In Conference Proceedings

1. Sun-A Kim, **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Identification of *Salmonella enteric* Subspecies I, *Salmonella enteric* Serovars Typhimurium, Enteritidis, and Typhi Using Multiplex PCR, *109th ASM general meeting*, Philadelphia, Pennsylvania, USA, 2009
2. Seol-Hee Sun, **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Identification of *Salmonella Enteritidis*, and *Bacillus cereus* Specific Gene Probes Using Comparative Genomics, *109th ASM general meeting*, Philadelphia, Pennsylvania, USA, 2009
3. Hee-Jin Park, Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, Quantitative Detection of *Bacillus cereus* Group in Artificially Contaminated Lettuce Using Real-Time PCR Method, *107th ASM general meeting*, Toronto, Ontario, Canada, **2007**
4. Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, DNA Microarray Chip Construction Using Comparative Genomics for Detection and Identification of Food-borne Pathogens, *106th ASM general meeting*, Orlando, Florida, USA., **2006**
5. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Rapid Identification of *Bacillus cereus* Group Bacteria Using Multiplex PCR, *GIM2006*, Prague, Czech, **2006**
6. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Rapid Identification of *Bacillus cereus* Group Bacteria Using Multiplex PCR, *The Korean Society for Microbiology and Biotechnology*, BEXCO, Busan, South Korea, **2006**
7. Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, Specific Identification of Eleven Food-borne Pathogens Using Oligonucleotide DNA Chip, *The Korean Society for Microbiology and Biotechnology*, BEXCO, Busan, South Korea, **2006**
8. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Detection and Differentiation of *Bacillus cereus* Group Bacteria Simultaneously Using Multiplex PCR, *105th ASM general meeting*, Atlanta, Georgia, USA., **2005**
9. Hyun-Joong Kim, **Si-Hong Park**, Bac-He Nahm, Kun-Ho Seo, and Hae-Yeong Kim, Genotyping and

Characterization of *Salmonella* Species Using Comparison Genome Sequence and PCR, *105th ASM general meeting*, Atlanta, Georgia, USA, **2005**

10. **Si-Hong Park**, Hyun-Joong Kim, and Hae-Yeong Kim, Qualitative Detection of *Yersinia enterocolitica*, *Staphylococcus aureus*, and *Shigella* spp. in Lettuce Using by Multiplex PCR, *The Korean Society for Applied Biological Chemistry*, Jeju Island, South Korea, **2005**
11. Hae-Yeong Kim, **Si-Hong Park**, Hee-Sung Song, Tae-Woon Kim, Identification of *Bifidobacteria* in the Intestinal Microflora of Korean by Whole Cell Protein and 16S rDNA Sequence Analysis, *The Korean Society for Applied Biological Chemistry*, University of Daegu, Daegu, South Korea, **2005**
12. Hyun-Joong Kim, **Si-Hong Park**, and Hae-Yeong Kim, Comparison of Genomic Sequence of *Salmonella Enterica* Serovar Typhimurium LT2 with *Salmonella* Genomic Sequences, and Genotyping of Salmonellae Using PCR, *The Korean Society for Microbiology and Biotechnology*, Muju Resort, Jeonju, South Korea, **2005**
13. Hyun-Joong Kim, **Si-Hong Park**, Sang-Hoon Jung, and Hae-Yeong Kim, Detection and Molecular Subtyping of *Listeria monocytogenes* Isolated from Food Products Using RAPD and Whole Cell Proteins Pattern, *The Korea Society for Applied Biological Chemistry*, University of Daegu, Daegu, South Korea, **2004**
14. Hyun-Joong Kim, **Si-Hong Park**, Sang-Hun Jung, and Hae-Yeong Kim, Detection and Molecular Subtyping of *Listeria monocytogenes* Isolated from Food Products in Korea Using PCR and SDS-PAGE, *104th ASM general meeting*, New Orleans, Louisiana, USA, **2004**
15. Hae-Yeong Kim, Hyun-Joong Kim, Sang-Hoon Jung, **Si-Hong Park**, Detection *Listeria monocytogenes* Isolated In Korean Foods Using PCR and SDS-PAGE, *Institute of Food Technologists (IFT)*, Las Vegas, NEVADA, USA., **2004**
16. Hyun-Joong Kim, **Si-Hong Park**, Sang-Hun Jung, and Hae-Yeong Kim, Detection and Molecular Subtyping of *Listeria monocytogenes* Isolated from Food Products in Korea Using PCR and SDS-PAGE, *104th ASM general meeting*, New Orleans, Louisiana, USA, **2003**

Honors and Prizes

- Aug. 2006 Excellent Honors Prize (Graduate School Graduation Ceremony)
- Sep. 2005 Third Winning Prize (Kyung Hee University Graduate School Academic Meeting)
- Apr. 2005 Third Winning Prize (Kyung Hee University Graduate School Academic Meeting)

Certifications

- Jun. 2005 Practical Guide of Microarray Experiments and Bioinformatics in Medicine. (Korea Genome organization)
- Aug. 2004 Successful Completion of Gas Chromatography. (Agilent Technology)

Extracurricular Activities

- 2007 - 2008 Nong Shim Social Baseball Club Member
- Mar. 2006 Published Article in Kyung Hee University Graduate Newspaper
- Jan. 2004 Kyung Hee University, Department of Life Science Abroad Exploration Member (Vancouver, CANADA)
- 1998 - 2004 Food Science Undergraduate Science Circle Member

Reference

1. Prof. Hae-Yeong Kim

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