

Dr. Seung-Hwan PARK



Current Position:

Nationality: Republic of Korea
Principal Research Scientist, Systems & Synthetic Biology Research Center,
Korea Research Institute of Bioscience and Biotechnology (KRIBB).
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Education:

1980.2 : BS, Seoul National University (Dept. of Agricultural chemistry)
1982.2 : MS, KAIST (Dept. of Biological Science and Engineering)
1987.2 : Ph.D., KAIST (Dept. of Biological Science and Engineering)
Thesis title: Cloning and expression of a *Bacillus* cellulase gene in *Escherichia coli* and nucleotide sequence of the gene (Supervisor: Prof. Moo-Young Pack)

Professional experiences:

1987.2-1998.2 : Senior Research Scientist, GERI
1998.3-present : Principal Research Scientist, KRIBB
1991.6-1992.8 : Post Doctoral Research Fellow. Dept. of Microbiology, The Public Health Research Institute of The City of New York
2002.7-2005.12 : Head, Lab. of Microbial Genomics, KRIBB
2004.3-present : Adjunct Prof., Dept. Biosyst. & Bioengn., Univ. of Science & Technology

Current interests:

Microbial genomics; genome sequencing, functional analysis and genome engineering
Genetics in Gram (+) bacteria especially on *Bacillus* & *Paenibacillus* species
Functional analysis of nonribosomal peptide synthetases
Development of *Bacillus* species producing industrial enzymes and peptide antibiotics
Development of biopesticides and microbial fertilizers

Selected Papers:

Genome sequence of the polymyxin-producing plant-probiotic rhizobacterium *Paenibacillus polymyxa* E681. J. Bacteriol. 192: 6103-6104 (2010).
Identification of Polymyxin Synthetase Gene Cluster of *Paenibacillus polymyxa* and Heterologous Expression of the Gene in *Bacillus subtilis*. 2009. J. Bacteriol. 191: 3350-3358 (2009)
Citrinin, a mycotoxin from *Penicillium citrinum*, plays a role in inducing motility of *Paenibacillus polymyxa*. FEMS Microbiol. Ecol. 65:229-237 (2008)
Identification and functional analysis of the fusaricidin biosynthetic gene of *Paenibacillus polymyxa* E681. 2008. Biochem. and Biophys. Res. Commun. 365:89-95 (2008)
Interference of quorum sensing and virulence of the rice pathogen *Burkholderia glumae* by an engineered endophytic bacterium. FEMS Microbiol. Ecol. 60:14-23 (2007)