

Dr. Sang-Soo KWAK



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Educations:

B.S. 1980, Kyungpook National University, Daegu, Korea, Major: Agronomy

M.S. 1984, Kyungpook National University, Korea, Major: Crop Sciences

Ph.D. 1988, The University of Tokyo, JAPAN, Major: Agricultural Chemistry

Thesis title: Chemical and Biochemical Studies on Gibberellin Biosynthesis

Enzymes in the Higher Plants (Supervisor: Prof. Nobutaka TAKAHASHI)

Research Experiences:

<Main Job>

1988. 4-1990. 3 Researcher, RIKEN, JAPAN

1990. 4-1995. 3 Senior Research Scientist, Bioresources Research Group, KRIBB

1996. 2-2000. 4 Leader, Plant Biochemistry Research Unit, PCBL, KRIBB

2000.2-2002.6 Head, Plant Cell Biotechnology Laboratory (PCBL), KRIBB

2003.9~present Tenure position in KRIBB

2005.8-2005.12 Head, Laboratory of Environmental Biotechnology, KRIBB

2006.1-2008.12 Director, Environmental Biotechnology Research Center, KRIBB

2009.12-present Director, Korea-China Biotechnology Joint Research Center to Combat Desertification

(www.bjrccd.re.kr)

2013.4-present Director, Plant Systems Engineering Research Center, KRIBB

<Additional Job>

1995. 7-2007. 6 Adjunct Senior Researcher, Dept. of Horticulture, Chung-Nam Province Agricultural Research and Extension Services. Rural Development Administration (RDA)
1996. 9-2001. 8 Adjunct Professor, Dept. of Biology, Chungnam National University
1998. 3-2002. 2 Adjunct Professor, Dept. of Biology, Kongju National University
2002. 6-2004.12 Research Director, Upland Crops Research Group, BioGreen21 Program, RDA
2002. 7-2004. 12 Executive Editor, Korean Journal of Plant Biotechnology
2005. 1-2007.4 Research Director, Molecular Breeding Research Group, BioGreen21 Program, RDA
2004. 11-2010.8 Adjunct Professor, Environmental Biotechnology National Core Research Center, Gyeongsang National University
2005. 1-2008.12 Vice-president, Korean Society of Plant Biotechnology
2005. 10-2008. 4 BT Focal Point Coordinator in Korea between Korea and New Zealand
2006. 1-present Editorial board, Plant Biotechnology Reports
2007. 3-present Adjunct Professor, University of Science and Technology (UST)
2008. 7-present Adjunct Professor, Institute of Soil and Water Conservation, Chinese Academy of Sciences (CAS), China
2009. 2-present Editorial board, Plant Physiology and Biochemistry (PPB)
- 2010.1-present Adjunct Professor, Sweetpotato Research Institute, Chinese Academy of Agricultural Sciences (CAAS), China
- 2011.10-present Active member of The Bashan Foundation (www.bashanfoundation.org)
- 2011.10-present Adjunct Professor, Jilin Agricultural University, China
- 2012.5- present Adjunct Professor, Institute of Food Crops, Jiangsu Academy of Agricultural Science, Nanjing, China
- 2012.9-present Secretary-General, (China, Japan & Korea) Trilateral Research Association of Sweetpotato (TRAS)
- 2012.2-present President, Korean Sweetpotato Research Association
- 2012.11-present Fellow, The Korean Academy of Science and Technology (KAST)
- 2014.5-present Next President (2015~2016) of The Korean Society for Plant Biotechnology

Research Topics:

1. Development of transgenic plants with enhanced tolerance to environmental stresses
2. Metabolic engineering of antioxidants in transgenic sweetpotato
3. Development of industrial plants (sweetpotato, potato, alfalfa, poplar) for sustainable development on global marginal lands including desertification area in northeast Asia.

Achievements:

1. Papers: international journals (112), domestic journals (89)
2. Patents: international patents (7), domestic patents (24)
3. Technology-transfer: 5 items

Organizer of Academic Activities:

1. Organizing chairman of Plant Bioventure Festival (April, 2003)
2. Organizing chairman of Korea-Japan Joint Symposium on Plant Biotechnology (October, 2005)
3. Organizing chairman of International Symposium on Agroforestry Biotechnology to Combat Desertification (October 7, 2011)
4. Organizing chairman of 5th Korea-China-Japan Sweetpotato Workshop (September 17-19, 2012)