

Raksha Singh

Sejong University, College of Life Sciences, Department of Molecular Biology, Plant-Microbe Interaction Lab (Room no. 605)
Seoul, South Korea
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EDUCATION

Sejong University

Ph.D. Candidate (Ongoing) in Plant Molecular Biology, Mar 2008-Present.
Fields for qualifying exams: Advanced Plant Molecular biology, Plant Genomics, Environmental Plant Biology, Advanced Plant Stress Biology, Plant Gene Expression, Advanced Plant Developmental Biology, Plant Pathology.
M.S. in Molecular biology, Mar 2010.

Pokhara University, Kathmandu, Nepal

B.Sc. Biochemistry, Aug 2006
Honors Thesis: "STUDY OF GENETIC DIVERSITY OF *Artemisia (Plant) spp.* by RAPD-PCR" Under the supervision of Prof. Dr. Vishwanath P. Agrawal.

RESEARCH INTERESTS

Molecular signaling in plant (MAPK signaling) under various stresses (Mainly defense response).

RESEARCH EXPERIENCE

Pokhara University, Kathmandu, Nepal.

Research Laboratory in Agriculture Biotechnology and Biochemistry (RLABB), Kathmandu, Nepal.

Everest Pharmaceuticals Pvt. Ltd, Bhaktapur, Nepal.

Quality Control Biochemist, Aug 2006 – Dec 2008

Researched and Quality check of drugs before product out from company.

PUBLICATIONS AND PRESENTATIONS

Young-Ho Jung, Seung-Hee Jeong, So Hee Kim, **Raksha Singh**, Jae-eun Lee, Yoon-Seong Cho, Ganesh Kumar Agrawal, Randeep Rakwal and Nam-Soo Jwa. **Systematic Secretome Analyses of Rice Leaf and Seed Callus Suspension-Cultured Cells:**

Workflow Development and Establishment of High-Density Two-Dimensional Gel Reference Maps. Journal of Proteome Research., **2008**.

Jung-A Kim, Kyoungwon Cho, **Raksha Singh**, Young-Ho Jung, Seung-Hee Jeong, So-Hee Kim, Jae-eun Lee, Yoon-Seong Cho, Ganesh K. Agrawal and Randeep Rakwal, et al. **Rice OsACDR1 (*Oryza sativa* accelerated cell death and resistance 1) is a potential positive regulator of fungal disease resistance.** Molecules and Cells, **2009**.

Young-Ho Jung, Seung-Hee Jeong, So Hee Kim, **Raksha Singh**, Jae-eun Lee, Yoon-Seong Cho, Ganesh Kumar Agrawal, Randeep Rakwal, Nam-Soo Jwa. **Secretome analysis of *Magnaporthe oryzae* using in vitro systems.** Proteomics, **2012**.

“MAPK Signaling”. Best Poster awarded at the 1st Japan-Korea joint symposium [Korea Society of Plant Pathology (KSPP) and the Phytopathological Society of Japan (PSJ)], South Korea, 2009.

“MAPK Signaling in Plant.” Paper presented at the 5th Workshop on Plant Signaling Network Research Center (SigNet) Seoul, South Korea 2009.

“MAPK Interactome in Plant.” Poster presented at the 6th Workshop on Plant Signaling Network Research Center (SigNet) Seoul, South Korea 2010.

“Mapping of MAPK Interactome”. Paper presented at the Rice Blast Workshop organized by National Academy of Agriculture Science and Center for Fungal Genetic Resources Seoul National University Seoul, South Korea 2009.

“MAPK in Plant defense”. Poster presented at the 5th International Rice Blast Conference, Little Rock, Arkansas, USA, 2010.

MEMBERSHIPS

Korean Society of Plant Pathology (KSPP).
International Plant Proteomics Organization (INNPO).

LANGUAGES

Reading and speaking in Nepali and English.