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a. Professional Preparation

Seoul National University, South Korea	Plant Pathology	B.S.	1993
Seoul National University, South Korea	Plant Pathology	M.S.	1995
North Carolina State University, USA	Plant Pathology	Ph.D,	2007
North Carolina State University, USA	Plant Pathology	Postdoctoral fellow	2008

b. Professional Experience

2019-Present	Senior Research Scholar, Dept. of Entomology and Plant Pathology, North Carolina State University, USA
2008-2019	Researcher, Dept. of Entomology and Plant Pathology, North Carolina State University, USA
1995-2000	Supervisor in Fungicide Development team, Bayer Crop Science, South Korea

c. Products

Five Publications Most Closely Related to Proposed Research

Sennik, E Erden, F, Constantino, N, **Oh, Y**, Dean, RA, 2 , and Oralkan, O. Electronic Nose System Based on a Functionalized Capacitive Micromachined Ultrasonic Transducer (CMUT) Array for Selective Detection of Plant Volatiles. *Sensors and Actuators B: Chemical*. 2021 (Accepted for Publication).

Wang M, Eyre AW, Thon MR, **Oh Y**, Dean RA. Dynamic Changes in the Microbiome of Rice During Shoot and Root Growth Derived From Seeds. *Front Microbiol*. 2020 Sep 8;11:559728. doi: 10.3389/fmicb.2020.559728. PMID: 33013792; PMCID: PMC7506108.

Ingram TW, **Oh Y**, Adhikari TB, Louws FJ, Dean RA. Comparative Genome Analyses of 18 *Verticillium dahliae* Tomato Isolates Reveals Phylogenetic and Race Specific Signatures. *Front Microbiol*. 2020 Nov 30;11:573755. doi: 10.3389/fmicb.2020.573755. PMID: 33329432; PMCID: PMC7734093.

Sharpee W, **Oh Y**, Yi M, Franck W, Eyre A, Okagaki LH, Valent B, Dean RA. Identification and characterization of suppressors of plant cell death (SPD) effectors from *Magnaporthe oryzae*. *Mol Plant Pathol*. 2017 18:850-863 PubMed PMID: 27301772.

Franck, W, E. Gokce, S. Randall, **Y. Oh**, A. Eyre, D. Muddiman, RA. Dean. Phosphoproteome analysis links protein phosphorylation to cellular remodeling and metabolic adaptation during appressorium development. *Journal of Proteome Research*. 2015 Jun ;14 (6) 2408-24. PMID: 25926025

Five Other Significant Publications

Oh Y, Robertson SL, Parker J, Muddiman DC, Dean RA. Comparative proteomic analysis between nitrogen supplemented and starved conditions in *Magnaporthe oryzae*. Proteome Science 2017 PMID: 29158724

Franck WL, Gokce E, Randall SM, **Oh Y**, Eyre A, Muddiman DC, Dean, R.A. Phosphoproteome analysis links protein phosphorylation to cellular remodeling and metabolic adaptation during *Magnaporthe oryzae* appressorium development. J. Proteome Res. 2015;14:2408–24. PMID:25926025

Gowda, M., Nunes, C.C., Sailsbery, J., Xue, M., Chen, F., Nelson, C.A., Brown, D.E., **Oh, Y.**, Meng, S., Mitchell, T., Hagedorn, C.H., Dean, R.A. Genome-wide characterization of methylguanosine-capped and polyadenylated small RNAs in the rice blast fungus *Magnaporthe oryzae*. Nucleic Acids Research, 2010, 38(21):7558-69. PMID: 21635781

Oh Y, Donofrio N, Pan H, Coughlan S, Brown DE, Meng S, Mitchell, T., Dean, RA. Transcriptome analysis reveals new insight into appressorium formation and function in the rice blast fungus *Magnaporthe oryzae*. Genome Biol. 2008;9:R85. PMID:18492280

Dean, R.A., Talbot, N.J., Ebbole, D.J., Farman, M.L., Mitchell, T., Orbach, M.J., Thon, M., Kulkarni, R., Xu, J-R., Pan, H., Read, N.D., Lee, Y-H., Carbone, I., Brown, D., **Oh, Y.Y.**, Donofrio, N., Soanes, D.M., Djonovic, S., Kolomiets, E., Rehmeier, C., Li, W., Harding, M., Soonok, K., Lebrun M-H., Bohnert, H., Coughlin, S., Butler, J., Calvo, S., Ma, L-J., Nicol, R., Purcell, S., Nusbaum, C., Galagan, J.E., Birren, B.W. The genome sequence of the rice blast fungus *Magnaporthe grisea*. Nature, 2005, 434: 890-896. PMID:15846337

d. Synergistic Activities

- Mentoring graduate students in the Fungal Genomics Laboratory and undergraduate students as part of an NSF Research Experience for Undergraduates at North Carolina State University.
- Provide lectures on PP501 Biology of Plant Pathogens (Mycology section) at North Carolina State University.
- Provide lectures and laboratory experiments on PP502 Plant Disease Methods and Diagnosis at North Carolina State University.