Graduate Students, Post-doctoral Research Scientists
Department of Biotechnology, Yeungnam University, Gyeongsan, Korea

Applications are invited for Graduate Student and Postdoctoral Researcher positions to undertake innovative research in the Department of Biotechnology, Yeungnam University, Republic of Korea (http://www.yu.ac.kr/en/main/index.php). Experience in some or all of the following disciplines are desirable: molecular biology, biochemistry, analytic chemistry, or microbiology (fungi, bacteria). Good oral and written communication skills and ability to work independently and as part of a team are required.

The successful candidates will participate in the following projects.

Project 1: Biocontrol of Pine Wood Nematode using Metabolites Isolates from Endophytes of Pine Trees
- Isolation of endophytes (fungi, bacteria) from pine trees.
- Screening of metabolites isolated from endophytes for nematicidal activity
- Isolation and identification of the nematicidal metabolite(s)
- Metabolic profiling using LC-MS-MS.
- Molecular mechanism of the nematicidal metabolite(s) in pine tree

Project 2: Signal Perception and Transduction of Sound Vibration in Arabidopsis
- Study on sound wave-mediated epigenetic changes which will include CHIP assay, bisulfite sequencing and small RNA sequencing.
- Role of mechano-channel in sound wave perception which will include patch clamp techniques, FRET mediated cytosolic calcium measurement and mutant studies.
- Metabolic profiling of Arabidopsis using LC-MS-MS.
- Other molecular and cellular biology works.

Further information about our research and recent publications can be found at http://pmmelab.wix.com/hanhongbae#!home/mainPage. Salary will be ~USD 2,000 for postdoctoral researcher per month, and stipend for graduate students. For application, send email to Professor Hanhong Bae (hanhongbae@ynu.ac.kr) with CV. The positions will be available from October 15, 2016.

Professor Hanhong (Rino) Bae, Ph.D.
Molecular Metabolic Engineering Lab
Yeungnam University
Department of Biotechnology
Biotechnology Building #323
280 Daehak-Ro
Gyeongsan, Gyeongbuk 38541
Republic of KOREA
Phone: 8253-810-3031 (office), Fax: 8253-810-4769
Email: hanhongbae@ynu.ac.kr
Website: http://pmmelab.wix.com/hanhongbae#!home/mainPage