Graduate Student Position
Department of Biotechnology, Yeungnam University, Gyeongsan, Republic of Korea

Applications are invited for Graduate Student positions (Ph.D or MS/Ph.D integrated Course) 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. Good oral and written communication skills and ability to work independently and as part of a team are required. All applicants should have the test scores of Korean (KLAT 6, TOPIK 6 or higher) or English (IBT 95, CBT 240, PBT 590, TOEIC 800, TEPS 700, IELTS 7 or higher). The positions will be available from March 1, 2019. The application closing date for the position will be on 25th October, 2018.

The successful candidates will participate in the following projects.

Project 1: Molecular Plant-Microbial (endophyte) Interaction
• Screening of metabolites isolated from endophyes for bioactivity
• Isolation and identification of the bioactive metabolites
• Identification (NMR) and molecular characterization of the bioactive metabolites
• Metabolic profiling using LC-MS-MS.
• Molecular mechanism (including small RNA) of the endophyte and their metabolite(s) in their host

Project 2: Signal Perception and Transduction of Sound Vibration in Arabidopsis
• Study on sound wave-mediated epigenetic changes
• Role of mechano-channel in sound wave perception
• 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. Stipend will be 1 Million Korean Won (~USD 1,000) for Ph.D (or MS/Ph.D integrated Course) student per month. For application, send email to Professor Hanhong Bae (hanhongbae@ynu.ac.kr) with CV.

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