Foreign Professors
Department of Biotechnology, Yeungnam University, Gyeongsan, Korea

Applications are invited for Foreign Professor 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. Good oral and written communication skills and ability to work independently and as part of a team are required.

The successful candidates can participate in the following projects.

Project 1: Induction of Valuable Metabolites using Endophytes
- Screening of endophytes for the induction of valuable secondary metabolites (e.g., ginsenosides in ginseng)
- Metabolic profiling (LC-MS/MS).
- Molecular mechanism of the induction of metabolites in host plants

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 (LC-MS-MS).
- Other molecular and cellular biology works.

Project 3: Metabolic Engineering using CRISPR-CAS system
- Metabolic engineering of valuable secondary metabolites (e.g., ginsenosides) in plant and/or microbes using CRISPR-CAS system.

Further information about our research and recent publications can be found at http://pmmelab.wix.com/hanhongbae#!home/mainPage. Salary will be ~USD 2200 per month (plus publication incentive). Applicant should have good publication record. The position requires teaching one class per year and writing manuscript (with or without research). For application, send email to Professor Hanhong Bae (hanhongbae@ynu.ac.kr) with CV by April 30, 2019. The position will be available from September 1, 2019.
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