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EDUCATION:

- Ph.D.: 1992. 8. Department of Biology, the Graduate School of Chung-Nam National University, Daejeon, Korea
- Bs.M.: 1985. 2. Department of Biology, the Graduate School of Yonsei University, Seoul, Korea
- M.S.: 1982. 2. Department of Biology, the College of Natural Science, Chung-Nam National University, Daejeon, Korea

EXPERIENCE:

- 1994. 3. – 1995. 3. Postdoctoral Researcher in Dept. of Zoology, Tennessee University, Knoxville, USA
- 1990. 3. – 1994. 2. Research Fellow in Department of Parasitology, Yonsei University College of Medicine, Seoul, Korea
- 1987. 3. – 1990. 2. Teaching Assistant in Department of Parasitology, Yonsei University College of Medicine, Seoul, Korea

PUBLICATIONS: Recent three years (2015-2017)

1. Excretory and secretory proteins of *Naegleria fowleri* induce inflammatory responses in BV-2 microglial cells. *J Eukaryot Microbiol.* 64:183-192, 2017
2. Efficient liquid media for the encystation of pathogenic free-living amoebae. *Korean J Parasitology*, 55:233-238, 2017
3. Improvement of a rapid diagnostic application of monoclonal antibodies against avian influenza H7 subtype virus using Europium nanoparticles. *Scientific Reports.*7:7933,1-11, 2017.
4. Production and characterization of monoclonal antibodies against cathepsin B and cathepsin B-Like proteins of *Naegleria fowleri*. *Experimental Parasitology*, 183:171-177, 2017
5. Development of monoclonal antibodies for the diagnosis of *Plasmodium vivax*. *Korean J Parasitology*, 55:623-630, 2017
6. The regulation of TIM-3 transcription in T cells involves c-Jun binding but not CpG methylation at the TIM-3 promoter. *Molecular Immunology* 75:60–68, 2016
7. NLRP-3 inflammasome activation in THP-1 target cells triggered by pathogenic *Naegleria fowleri*. *Infection and Immunity.*84:2422-2428, 2016
8. Protective immunity against *Naegleria fowleri* infection on mice immunized with the rNfal protein using mucosal adjuvants. *Parasitology Research*, 114:1377-1385, 2015
9. Inhibitory effect of *Phyllanthus urinaria* L. extract on the replication of lamivudine-

- resistant hepatitis B virus in vitro. BMC Complementary and Alternative Medicine, 15:255-266, 2015
10. Effective PCR-based detection of *Naegleria fowleri* from cultured sample and PAM-developed mouse. European Journal of Protistology, 51:401-408, 2015
 11. Evaluation of gargling Cololo solution for bacterial growth inhibition. Oral Biology Research, 39:155-158, 2015
 12. Cross-reactivity between group-5 and -21 mite allergens from *Dermatophagoides farinae*, *Tyrophagus putrescentiae* and *Blomia tropicalis*. Molecular Medicine Reports, 12:5467-5474, 2015
- *(91 theses from 1982 to 2014)