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2007 M.D., College of Medicine, Chung-Ang University
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2009-2013 Residency, Department of Laboratory Medicine,
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- **Main Scientific Publications:**

Usefulness of three-channel multiplex real-time PCR and melting curve analysis for simultaneous detection and identification of the Mycobacterium tuberculosis complex and nontuberculous mycobacteria. *J Clin Microbiol.* 2011;49:3693-6.

Detection of Herpes Simplex and Varicella-Zoster Virus in Clinical Specimens by Multiplex Real-Time PCR and Melting Curve Analysis. *Biomed Res Int.* 2014;2014:261947.

Significance of Lewis Phenotyping Using Saliva and Gastric Tissue: Comparison with the Lewis Phenotype Inferred from Lewis and Secretor Genotypes. *Biomed Res Int.* 2014;2014:573652.

The impact of protein extraction protocols on the performance of currently available MALDI-TOF mass spectrometry for identification of mycobacterial clinical isolates cultured in liquid media. *Clin Chim Acta.* 2016;460:190-5.

Genotyping of 19 red cell antigens, including RHD, using liquid bead arrays. *Clin Chim Acta.* 2016;462:111-7.

Genotyping of 22 blood group antigen polymorphisms and establishing a national recipient registry in the Korean population. *Ann Hematol.* 2016;95:985-91.