Digital Transformation of
Laboratory Medicine:
Linchpin of Future Medical Value

LMCE KSLM
2022 & 63rd ANNUAL MEETING

OCTOBER. 26-28, 2022
Swiss Grand Hotel, Seoul, Korea

CURRICULUM VITAE

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Educational Background			
2005	Ph.D.	Seoul National University	
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1998	M.D.	Seoul National University	

Professional Experience	
2018-present	Assistant/Associate Professor, Department of Digital Health, SungKyunKwan University
2016-2018	Assistant Professor, Department of Computer Engineering, KyungHee University
2011-2016	Research Assistant Professor, Department of Biomedical Informatics, Asan Medical Center
2010-2011	Principal Researcher, Bioinformatics Lab, Samsung SDS
2008-2010	Research Professor, Medical Information Center, Seoul National University Hospital
2006-2008	Guest Researcher, National Institute of Standards and Technology

Professional Organizations
Korean Society of Medical Informatics (KOSMI)
Korean Society of Artificial Intelligence in Medicine (KOSAIM)

Main Scientific Publications
• Y. Son, K. Han, Y. S. Lee, J. Yu, Y.-H. Im, & S.-Y. Shin, Privacy-Preserving Breast Cancer Recurrence Prediction based on Homomorphic Encryption and Secure Two Party Computation, *Plos One*, 16(12): e0250681, 2021.
• G. Lee & S.-Y. Shin, Federated Learning on Clinical Benchmark: Performance Assessment, *Journal of Medical*

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• J. Kim, J. H. Min, S. K. Kim, S.-Y. Shin*, & M. W. Lee*, Detection of Hepatocellular Carcinoma in Contrast-Enhanced Magnetic Resonance Imaging Using Deep Learning Classifier: A Multi-Center Retrospective Study, *Scientific Reports*, 10: 9458, 2020 (*co-corresponding authors)

• P. Park*, S.-Y. Shin*, S. Park, J. Yun, C. Shin, J. Jung, & H. Cha, NGS-based Cancer Panel Data Conversion using International Standard to implement Clinical NGS Research System: Single Institute Study, *JMIR Medical Informatics*, 8(4): e14710, 2020. (*co-first authors)

• B. Ryu*, S.-Y. Shin*, R.-M. Baek, J.-W. Kim, E. Heo, I. Kang, J. S. Yang, & S. Yoo, Clinical Genomic Sequencing Reports in Electronic Health Record Systems Based on International Standards: Implementation Study, *Journal of Medical Internet Research*, 22(8): e15040, 2020 (*co-first authors)•