Jeongeun Lee

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Updated: March 2023

EDUCATION _____

2014-2023	Seoul National University, Ph.D.
	Major: Interdisciplinary Program for Bioengineering
	Advisor: Jinwook Choi, M.D. Ph.D. & Murim Choi, Ph.D.
2012-2014	Seoul National University, M.S.
	Major: Interdisciplinary Program for Bioengineering
	Advisor: Jinwook Choi, M.D. Ph.D.
2006-2012	Hanyang University, B.A.
	Major: Media Communications Engineering (Electrical Engineering) with an honor of summa cum laude

RESEARCH EXPERIENCE
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2023-current	Postdoctoral Researcher
	Biomedical Research Institute, Seoul National University Hospital
	PI: Soo Heon Kwak

PUBLICATIONS _____

Lee, J., Lee, J., Jeon, S., Lee, J., Jang, I., Yang, J. O., ... & Choi, M. (2022). A database of 5305 healthy Korean individuals reveals genetic and clinical implications for an East Asian population. *Experimental & Molecular Medicine* **54(11)***,* 1862-1871. doi.org/10.1038/s12276-022-00871-4

Park, S., Jang, S. S., Lee, S., Kim, M., Sim, H., Jeon, H., Hong, S. E., Lee, J., **Lee, J.**, … & Chae, J. H. (2022). Systematic analysis of inheritance pattern determination in genes that cause rare neurodevelopmental diseases. *Frontiers in Genetics* **13**, 990015. doi.org/10.3389/fgene.2022.990015

Hong, S. E., Kneissl, J., Cho, A., Kim, M. J., Park, S., **Lee, J.**, Woo, S., … & Choi, M. (2022). Transcriptome-based variant calling and aberrant mRNA discovery enhance diagnostic efficiency for neuromuscular diseases. *Journal of Medical Genetics* **59(11)**, 1075-1081. doi.org/10.1136/jmedgenet-2021-108307

Lee, Y., Park, S., Lee, J.S., Kim, S.Y., Cho, J., Yoo, Y., Lee, S., Yoo, T., Lee, M., Seo, J., **Lee, J.**, … & Chae. J. (2020). Genomic profiling of 553 uncharacterized neurodevelopment patients reveals a high proportion of recessive pathogenic variant carriers in an outbred population. *Scientific Reports* **10(1)**, 1-11. doi.org/10.1038/s41598-020-58101-8

Lee, J., Song, H. J., Yoon, E., Park, S. B., Park, S. H., Seo, J. W., ... & Choi, J. (2018). Automated extraction of Biomarker information from pathology reports. *BMC Medical Informatics and Decision Making* **18(1)**, 29. doi.org/10.1186/s12911-018-0609-7

Cha, S., **Lee, J.**, Shin, J. Y., Kim, J. Y., Sim, S. H., Keam, B., ... & Kim, J. I. (2016). Clinical application of genomic profiling to find druggable targets for adolescent and young adult (AYA) cancer patients with metastasis. *BMC Cancer* **16(1)**, 170. doi.org/10.1186/s12885-016-2209-1

Yun, J. M., Hwang, S. J., Anh, S. Y., Lee, S. M., Kang, P., **Lee, J.**, ... & Park, P. (2015). Development of biomarker positivity analysis system for cancer diagnosis based on clinical data. *Bio-medical Materials and Engineering* **26(s1)**, S2101-S2111. doi.org/10.3233/BME-151516

Kim, J. Y., **Lee, J.**, Cha, S., Lee, S. H., & Kim, J. I. (2015). An explorative study using next generation sequencing of papillary renal cell carcinoma, type 2. *International Journal of Scientific and Research Publication* **5(1)** (ISSN: 2250-3153). http://www.ijsrp.org/research-paper-0115.php?rp=P373590

Choi, S., **Lee, J.**, & Choi, J. (2013). SNUMedinfo at ImageCLEF 2013: Medical Retrieval Task. In *CLEF (Working Notes)*.

CONFERENCE PRESENTATIONS

TALKS

Lee, J., Song, H. J., Yoon, E., Park, S. B., Park, S. H., Seo, J. W., ... & Choi, J. (2014). Development of Biomarker Knowledge Base from Pathology Reports Using Natural Language Processing Techniques. Talk presented at the *Korean Society of Medical Informatics conference*. Seoul, Republic of Korea

Lee, J., Song, H. J., Yoon, E., Park, S. B., Park, S. H., Seo, J. W., ... & Choi, J. (2013). Biomarker Information Extraction from Non-Structured Immunohistochemistry Reports with Biomarker Thesaurus. Talk presented at the *Korean Society of Medical Informatics conference*. Seoul, Republic of Korea.

POSTERS

Lee, J., Lee, J., Jeon, S., Lee, J., Jang, I., Yang, J. O., ... & Choi, M. (2022). A database of 5305 healthy Korean individuals reveals genetic and clinical implications for an East Asian population. *Korean Society for Molecular and Cellular Biology,* Jeju*,* Republic of *Korea*

Lee, J., Seo, J., Kim, Y., Mook-Jung, I., Choi, M. (2018). Somatic LINE-1 retrotransposition in the Alzheimer brain genome. Poster presented at *FASEB 2018 Transcription, Chromatin and Epigenetics,* Florence, Italy.

Lee, J., Jazi, A.Y., Seong, M. Choi, J. (2015). Clinical Interpretation Pipeline of Targeted Next-Generation Sequencing Cardiovascular Panels. Poster presented at the *Translational Bioinformatics Conference*, Tokyo, Japan.

Cha, S., **Lee, J.**, Shin, J., Kim, J., Kim, J., Lee, S. (2015) Patient-specific genomic profiling for advanced cancers in young adults. Poster presented at the *American Association for Cancer Research Annual Meeting*, Philadelphia, U.S.

PROJECT EXPERIENCES _____

2021-current	Population specific sc-eQTL analysis from Asian Immune Diversity Atlas
2021-current	Genetic contribution on TCR/BCR clonality and naïve repertoire
2016-2021	Commercialization of SNUH genomic knowledge DB solution with which clinicians and bioinformaticians can manage patient's report and share novel insights on a case with colleagues
2014-2017	Development of online resource providing pathology information including biomarker levels, anatomical pathology features, and clinical pathology features

TEACHING EXPERIENCES _____

2022.07.19.	16th Asian Institute in Statistical Genetics and Genomics. Seoul, Korea Title 1: "Analysis of single-cell RNA sequencing data" Title 2: "Analysis of whole genome sequencing data using cloud computing"
2021.06.28.	(online) 15th Asian Institute in Statistical Genetics and Genomics. Seoul, Korea Title: "Analysis of whole genome sequencing data"
2020.07.	(online) Korean Bioinformation Center, Korea Title: "Analysis of structural variants for whole exome sequencing data"

2019.07.15.   14th Asian Institute in Statistical Genetics and Genomics. Seoul, Korea
Title: "Analysis of whole genome sequencing data"

2018.07.19.   13th Asian Institute in Statistical Genetics and Genomics. Seoul, Korea
Title: "Genomic data analysis using deep learning algorithm"

2014-2016   Seoul National University College of Medicine, Seoul, Korea
Title: "Data processing of medical data", 1st semester

HONORS AND AWARDS

2006-2012   Hanyang University 2010 Full Scholarship.