CURRICULUM VITAE

Jeongeun Lee

November 2022

EDUCATION	
2014 - current	Seoul National University, Ph.D. candidate 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

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*, 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., <u>Lee, J.</u>, ... & 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., <u>Lee, J.</u>, 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., <u>Lee, J.</u>, ... & 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**, 1413. doi.org/10.1038/s41598-020-58101-8

- <u>Lee, J.</u>, 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**, 29. doi.org/10.1186/s12911-018-0609-7
- Cha, S., <u>Lee, J.</u>, 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**, 170. doi.org/10.1186/s12885-016-2209-1
- Yun, J. M., Hwang, S. J., Anh, S. Y., Lee, S. M., Kang, P., <u>Lee, J.</u>, ... & 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., <u>Lee, J.</u>, 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)**.
- Choi, S., <u>Lee, J.</u>, & 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, South Korea
- <u>Lee, J.</u>, 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, South Korea.

POSTERS

- <u>Lee, J.</u>, 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, South Korea*
- <u>Lee, J.</u>, 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.
- <u>Lee, J.</u>, 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., <u>Lee, J.</u>, 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 EXPERIENCE		
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 EXPERIENCE		
2022.07.19.	16 th 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) 15 th 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.	14 th Asian Institute in Statistical Genetics and Genomics. Seoul, Korea Title: "Analysis of whole genome sequencing data"	
2018.07.19.	13 th 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.