

SUHYEON NICOLE YOON

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Skills Summary

Scientific Administration

Project management of preclinical trials / Design and testing of a multi-site COVID-19 LIMS / Concurrent monitoring of 30+ projects at 8+ ABSL3 facilities

Scientific Meeting and Event Management

Create and organize scientific programs, workshops and conferences / Manage marketing, fundraising, sponsorships and memberships for scientific programs

Bioinformatics & Computer Programming

Next Generation Sequencing (NGS) analysis - mRNA expression and network analysis / CRISPR target design / Transcription factor and pathway analysis / Python, R and Bash programming on Linux systems

In Vitro & In Vivo Experiments

General genetic manipulation / Biochemical techniques: Enzyme assay, ELISA, Western, CHIP / Cell Cultures (maintaining & transfection of various cell lines)/ CRISPR-Cas9 gRNA construct and mRNA in vitro transcription / Injecting CRISPR mRNA into zebrafish embryo / Setting up mouse strains and backcrossing / Basic mouse model works - RNA & Protein work with mouse tissues and basic histology

Language Proficiency

English: Full Professional Proficiency.

Korean & Japanese: Native.

French: Limited Working Proficiency

Experience

Korea Mouse Phenotyping Center (KMPC)

Covid-19 Preclinical Trials Project Manager as Sr. Researcher (10/2020~current)

Working as a project manager on COVID-19 preclinical experiments. Building the preclinical process platform, executing the project, preparing communication methods, finding solutions to urgent issues, monitoring each preclinical experiment progress from start to finish across 9 teams of 16 PIs at 8 independent labs/facilities. Making reports every week to the Ministry of Science and ICT(MIST) and writing COVID-19 sections for MIST policy reports.

Mediaiplus

Scientific Advisor (07/2020~current)

Collecting Korean clinical data from clinicaltrials.gov, MFDS (<https://www.mfds.go.kr/eng>) and CRIS (<http://cris.nih.go.kr>) for building Korean specific clinical trial database for CROs and pharmaceutical companies. Curating and validating clinical trial data and constructing automated bio-curation pipelines to update clinical databases using SNOMED-CT and other disease and medical ontology databases.

University of Utah Asia campus, BMI (Dr. Younghee Lee)

Scientific consultant (09/2018~04/2019, 05/2020~11/2020)

Reviewed scientific literature, prepared summaries of consumer genetic testing trends and presented at biweekly meetings as part of a six-person committee preparing an approved and funded grant proposal for a Korean city government. Planning and processing projects related to bioinformatics and genomics grants. Supporting various grant submissions and organizing grant reports. Reviewing manuscripts for lab members and helping graduate students execute and complete ongoing projects and helping graduate students to execute and complete ongoing projects.

Human Genome Organisation (Dr. Charles Lee)

Director of Strategic Development (01/2017~11/2017)

Led projects related to the annual Human Genome Meeting (~500 attendees) and four workshops (~100 attendees each). Planning, marketing, handling legal issues, contracts and fundraising for global scientific programs and workshops.

IBS, Center for Genome Integrity (Dr. Kyungjae Myung)

Postdoctoral Research Fellow (01/2016~12/2016)

Investigated genes involved in DNA repair/replication process during embryonic development in zebrafish using CRISPR/Cas9 system, especially loss-of-function of DNA repair/replication genes.

NIH, NHGRI, GMBB, Genome Instability Section (Dr. Kyungjae Myung)

Postdoctoral Visiting Fellow (07/2013~11/2015)

Performed microarray and RNA seq experiments (with ribosome profiling) to characterize Mismatch Repair (MMR) proteins, MSH2-MSH6, in baicalein-sensitive MMR-deficient cancer cells.

Awards and Grants

Outstanding Poster Award (2015)

Inaugural Symposium on U.S.-Korea Collaborative Biomedical Research at NIH

The Korean Visiting Scientist Training Award (KVSTA, 2013-2015)

Fellowship supported by the Korea Health Industry Development Institute (KHIDI) of the Korea Ministry of Health and Welfare in cooperation with NIH

Convergent Science Culture with Humanities and Arts grant (06/2012)

Award from Korea Foundation for the Advancement of Science and Creativity (KOFAC) for the first biohacking project at Hacker Space Seoul in South Korea

BK21 (Brain Korea 21) fellowship grant (2004-2011)

Fellowship during Master and Ph.D. program supported by Korean government

Education

Ewha Womans University, Seoul, Republic of Korea

2007 – 2013	Ph.D.	Systems Biology	(Prof. Sanghyuk Lee)
2004 – 2007	M.S.	Cellular Signaling Transduction	(Prof. Yunsoo Bae)
1999 – 2004	B.S.	Biology	

Reference and Publication lists are available upon request.