Jess Byun

PhD Candidate in Bioinformatics and Computational Biology.

I use multi-omics approaches to understand the molecular mechanisms driving Osteoarthritis in the Phanstiel Lab.

I am passionate about improving our understanding of disease-related physiological processes and discovering innovative treatments.

Download CV as a PDF

CONTACT

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ONLINE

@Jess_S_Byun

https://github.com/seyoun209

https://www.linkedin.com/in/jess-b-860a4380/

Source code available: https://github.com/seyoun209/cv.

Updated: 2024-03-31.

EDUCATION

current | 2021

PhD. Bioinformatics and Computational Biology

University of North Carolina — Chapel Hill, NC

- Advisor: Doug Phanstiel

2021 | 2019

MS. Biomedical Informatics

University of Utah — Salt Lake City, UT

- Advisor: Deborah Neklason

2014 | 2010

BS. Chemistry

University of Utah — Salt Lake City, UT

RESEARCH & WORK EXPERIENCE

current | 2021

Graduate Research Assistant

University of North Carolina — Chapel Hill, NC

- Discovering the genetic variation on mRNA splicing in response to cartilage matrix damage
- Optimize gene-editing protocols using CRISPR technology to validate discovered risk genes.

2021 | 2019

Graduate Research Assistant

Huntsman Cancer Institute — Salt Lake City, UT

- Led project of analyzing copy number variations in rare cancer by utilizing methylation array
- Contributed to a project in the large family inherited genetic studies using WGS and SNP genotyping
- Developed target discovery on Lynch syndrome germline mutation by utilizing RNA-seq and single-cell OMICs approaches

2019 | 2016

Scientist-Chemist

Navigen Pharmaceutical — Salt Lake City, UT

- Developed D-peptide drugs of Human Immunodeficiency Virus (HIV), Respiratory Syncytial Virus (RSV), Ebola and Tumor necrosis factor **α** (TNF **α**)-Synthesize both manually and automatically

2019 | 2017

Research Assistant

University of Utah — Salt Lake City, UT

- Led a research project of HIV infected T-cell to find receptor genes and Immune-related genes using RNA-seq
- Conducted a research project of HCC risk factors association using RAN-seq
- Contributed an Alzheimer's disease associated with alternative splicing

2016
|
2015

Scientist-Chemist
Nutraceutical Corporation

Ogden, UT