

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Jimin Lee

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Graduate student

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Korea University	BS	03/2020	Biology

A. Personal Statement

I am currently studying the fundamental mechanism of transcription by determining atomic structures of RNA polymerases in various context by using electron-microscopy. In particular, I am interested in the transcriptional pausing in the context of riboswitches. In this study, I am going to reconstitute preQ1-I riboswitch containing RNA polymerase elongation complex and solve the cryo-EM structure(s) of the complexes at its paused state. The determined structures will reveal how the ligand, preQ1, manipulate the structure of the riboswitch, and subsequently, the conformation of RNAP.

B. Positions and Honors

None

C. Contributions to Science

None

D. Additional Information: Research Support and/or Scholastic Performance**Ongoing**

Jin Young Kang (PI)

06/01/2019-06/18/2021

Basic Science Research Program, National Research Foundation of Korea(NRF)

R1A6A1A10073887

Goal: To understand the molecular mechanism of que pausing in preQ1-I riboswitch associated RNA polymerase elongation complex

Role: Investigator