

CURRICULUM VITAE



Name: Yoosik Kim

Email: ysyoosik@kaist.ac.kr

Phone: +82-42-350-7312

Fax: +82-42-350-3910

Position: Assistant Professor

Institution: Korea Advanced Institute of Science and Technology

Location: Daejeon, South Korea

Education:

Princeton University, Princeton, NJ

09/2006-10/2011

Doctor of Philosophy - Department of Chemical and Biological Engineering

Master of Arts - Department of Chemical and Biological Engineering

Dartmouth College, Hanover, NH

09/2002-06/2006

Bachelor of Engineering - Chemical Engineering

Bachelor of Arts – Engineering Sciences modified with Chemistry, Summa Cum Laude

Representative Careers:

Korea Advanced Institute of Science and Technology, Daejeon, South Korea

01/2016-present

Assistant professor – Department of Chemical and Biomolecular Engineering

Institute for Basic Science, Seoul, South Korea

12/2014-11/2015

Postdoctoral researcher – Center for RNA Research

Seoul National University, Seoul, South Korea

10/2011-11/2014

Postdoctoral researcher - School of Biological Sciences

Specialty & Present Interest:

- Image based quantitative analysis of gene expression
- Development and analysis of transcriptome (mRNA-seq, small RNA-seq, ribosome footprinting, novel high-throughput approaches to identify noncoding RNAs)
- Identification and investigation of long noncoding RNAs (long double-stranded RNAs)
- RNA-RBP interactions and signal transduction
- RNA-based theranostics

Representative papers (up to 5):

Kim Y*#, Park J*, Kim S*, Kim M, Kang MG, Kwak C, Kang M, Kim B, Rhee HW, Kim VN#. PKR senses nuclear and mitochondrial signals by interacting with endogenous double-stranded RNAs. *Mol Cell* **71**, 1051-1063.

Jang J*, Kim M*, and **Kim Y**. (2017). Two faces of competition: target-mediated reverse signaling in microRNA and mitogen-activated protein kinase regulatory networks. *IET Syst Biol* **11**, 105-113.

Park JE*, Yi H*, **Kim Y***, Chang H, and Kim VN. (2016). Regulation of poly(A) tail and translation during the somatic cell cycle. *Mol Cell*. **62**, 462-471.

Kim Y*, Yeo J*, Lee JH*, Cho J, Suh D, Kim J, and Kim VN. (2014). Deletion of human *tarbp2* reveals cellular microRNA targets and cell cycle function of TRBP. *Cell Rep*. **9**, 1061-1074.

Kim Y, Lee JH, Park JE, Cho J, Yi H, and Kim VN. (2014). PKR is activated by cellular dsRNAs during mitosis and acts as a mitotic regulator. *Genes Dev*. **28**, 1310-1322.

***Co-first authors; #Co-corresponding authors**