


Curriculum Vitae

* Within 3 pages

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Educational Background

2002 B.S., Department of Life Science, Korea University, Seoul, Korea,
2010 M.S., Ph.D., Genetic Engineering, Seoul National University, Seoul, Korea

Professional Career

2010-2011 Postdoctoral Fellow, Seoul National University, Seoul, Korea
2012-2018 Postdoctoral Fellow, Cold Spring Harbor Laboratory, NY, USA
2018-2022 Assistant Professor, Dept. of Biochemistry, Yonsei University, Seoul, Korea
2022-current Associate Professor, Dept. of Biochemistry, Yonsei University, Seoul, Korea

Research Field

Gene expression regulation
 Cancer epigenetics
 Pancreatic cancer

Xu J*, **Roe JS***, Lee E, Tonelli C, Ji KY, Younis OT, Somerville TDD, Yao M, Milazzo JP, Tiriach H, Kolarzyk AM, Lee E, Grem JL, Lazenby AJ, Grunkemeyer JA, Hollingsworth MA, Grandgenett PM, Borowsky AD, Park Y, Vakoc CR, Tuveson DA#, Hwang CI#. Engrailed-1 Promotes Pancreatic Cancer Metastasis (2023) *Advanced Science*, 18:e2308537 (*co-first author; #co-corresponding author)

Jeong SY*, Kim HR*, Shin JH, Na IS, Lee JS, Son MH, Lee IH, **Roe JS**. Streamlined DNA-encoded small molecule library screening and validation for the discovery of novel chemotypes targeting BET proteins (2023) *Molecular Therapy Nucleic Acids*, 32:637-649

Shin JH, Kim HR, **Roe JS**. Integrative cistrome and transcriptome analysis identified candidate tumor suppressor genes targeted by p53 in human cancer (2023) *Genes & Disease*, 11:512-515

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Yoo HB*, Moon JW*, Kim HR*, Lee HS*, Miyabayashi K, Park CH, Ge S, Zhang A, Tae YK, Sub Y, Park HW, Gee HY, Notta F, Tuveson DT, Bang S, Kim MY#, **Roe JS**#. An enhancer-driven endothelial lineage program by TEAD2 shapes basal-like differentiation and metastasis in pancreatic cancer (2023) *Gastroenterology*, doi: 10.1053/j.gastro.2023.02.049, (*co-first author; #co-corresponding author)

Park HH, Kim HR, Park SY, Hwang SM, Hong SM, Park S, Kang HC, Morgan MJ, Cha JH, Lee D, **Roe JS**#, Kim YS#. RIPK3 activation induces TRIM28 derepression in cancer cells and enhances the anti-tumor microenvironment (2021) *Molecular Cancer*, 20:107 (#co-corresponding author)

Kim HR, Yim J, Yoo HB, Lee SE, Oh S, Jung S, Hwang CI, Shin DM, Kim T, Yoo KH, Kim YS, Lee HW, **Roe JS**. EVI1 activates tumor-promoting transcriptional enhancers in pancreatic cancer (2021) *NAR Cancer*, 3:zcab023 (Editor's choice)

Hong BJ*, Park WY*, Kim HR**, Moon JW**, Lee HY, Park JH, Kim SK, Oh Y, **Roe JS**#, Kim MY#. Oncogenic KRAS sensitizes lung adenocarcinoma to GSK-J4-induced metabolic and oxidative stress (2019) *Cancer Research*, 79:5849-5859 (#co-corresponding author)

Roe JS*, Hwang CI*, Somerville Tim D.D., Milazzo JP, Lee EJ, Da Silva B, Filippini D, Creighton B, Maiorino L, Grem JL, Lazenby AJ, Grunkemeyer JA, Hollingsworth MA, Grandgenett PM, Egeblad M, Park Y, Tuveson DA#, Vakoc CR#. Enhancer reprogramming promotes pancreatic cancer metastasis (2017) *Cell*, 170:875-888 (*co-first author)

Tasdemir N*, Banito A*, **Roe JS***, Direna AC*, Camiolo M, Tschaharganeh D, Huang CH, Aksoy O, Bolden JE, Chen CC, Fennell M, Thapar V, Chicas A, Vakoc CR#, Lowe SW#. BRD4 connects enhancer remodeling to senescence immune surveillance (2016) *Cancer Discovery*, 6:612-629 (*co-first author)

Roe JS, Mercan F, River K, Pappin DJ, Vakoc CR. BET bromodomain inhibition suppresses the function of hematopoietic transcription factors in acute myeloid leukemia (2015) *Molecular Cell*, 58:1028-1039