

지성욱

고려대학교 생명과학부 / 교수

학 력

- 1995-1999 고려대학교 생명과학부 학사
1999-2001 고려대학교 생명공학원 석사 (지도교수: 최의주)
2009 Tri-institutional program in Computational Biology and Medicine
Rockefeller Univ., Ph.D. (Advisor: Robert B. Darnell)

경 력

- 2009-2010 Rockefeller Univ., Post-doc. (Robert Darnell, HHMI)
2010-2011 Cold Spring Harbor Lab., RNAi Research Center, Post-doc. (Gregory Hannon, HHMI)
2011-2015 성균관대학교 삼성융합의과학원 조교수
삼성서울병원 미래의학연구원 조교수
2015-현재 고려대학교 생명과학대학 생명과학부 교수
KU-KIST 융합대학원 교수

대표 발표 논문

1. Eom S*, Peak J*, Park J*, Ahn SH*, Cho YK, Jeong Y, Lee HS, Lee J, Ignatova E, Lee SE, Hong Y, Gu D, Kim GWD, Lee DC, Hahm JY, Jeong J, Choi D, Jang ES, Chi SW (2023) "Widespread 8-oxoguanine modifications of miRNA seeds differentially regulate redox-dependent cancer development" **Nature Cell Biology** 25, 1369-1383
2. Hahm JY*, Park J*, Jang ES, Chi SW (2022) "8-Oxoguanine: from oxidative damage to epigenetic and epitranscriptional modification" **Exp Mol Med** 54, 626-1642
3. Gu D*, Ahn SH*, Eom S*, Lee HS, Ham J, Lee DH, Cho YK, Koh Y, Ignatova E, Jang ES, Chi SW (2021) "AGO-accessible anticancer siRNAs designed with synergistic miRNA-like activity" **Molecular Therapy: Nucleic Acids** 23:1172-1190
4. Seok H, Lee H, Lee S, Ahn SH, Lee HS, Kim GWD, Peak J, Park J, Cho YK, Jeong Y, Gu D, Jeong Y, Eom S, Jang ES, Chi SW (2020) "Position-specific oxidation of miR-1 encodes cardiac hypertrophy" **Nature** 584, 279-285
5. Park S*, Ahn SH*, Cho ES*, Cho YK, Jang ES, Chi SW (2018) "CLIPick: a sensitive peak caller for expression-based deconvolution of HITS-CLIP signals" **Nucleic Acids Research** 46(21):11153-11168
6. Lee HS*, Seok H*, Lee DH*, Ham J*, Lee W, Youm EM, Yoo JS, Lee YS, Jang ES, Chi SW (2015) "Abasic pivot substitution harnesses target specificity of RNA interference". **Nature Communications** 6:10154
7. Kim KK, Ham J, Chi SW (2013) "miRTCat: a comprehensive map of human and mouse microRNA target sites including non-canonical nucleation bulges". **Bioinformatics** 29(15):1898-9
8. Chi SW*, Hannon GJ and Darnell RB* (2012) An alternative mode of microRNA target recognition. **Nature Structural and Molecular Biology** 19: 321-327. (*corresponding author)
9. Chi SW, Zang JB, Mele A, Darnell RB (2009) Argonaute HITS-CLIP decodes miRNA-mRNA interaction maps. **Nature** 460 (7254): 479-86