

# Prof. V. Narry Kim

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<b>Research Interest</b>	<b>RNA-mediated gene regulation</b>
<b>Position</b>	<b>Professor</b> , Seoul National University <b>Director</b> , Center for RNA Research, Institute for Basic Science
<b>Education</b>	<b>Ph. D., Biochemistry</b> , 1994-1998 Oxford University, <i>Oxford, UK</i> <b>M. S., Microbiology</b> , 1992-1994 Seoul National University, <i>Seoul, Korea</i> <b>B. A., Microbiology</b> , 1988-1992 Seoul National University, <i>Seoul, Korea</i>
<b>Professional Experience</b>	<b>SNU Distinguished Professor</b> , 2017-present Seoul National University  <b>Professor</b> , <i>School of Biological Sciences</i> , 2013-present Seoul National University  <b>Director</b> , <i>Center for RNA Research</i> , 2012-present Institute for Basic Science  <b>SNU Distinguished Fellow</b> , 2010-2016 Seoul National University  <b>Associate Professor</b> , <i>School of Biological Sciences</i> , 2008-2013 Seoul National University  <b>Assistant Professor</b> , <i>School of Biological Sciences</i> , 2004-2008 Seoul National University  <b>Research Associate Professor</b> , <i>Advanced Training Program for Biological Sciences</i> , 2001-2004 Seoul National University  <b>Postdoc Fellow</b> , <i>Howard Hughes Medical Institute</i> , 1999-2001 University of Pennsylvania
<b>Professional Services</b>	<b>Scientific Organiser</b> , 2022 EMBO Workshop The Epitranscriptome, Virtual  <b>Scientific Organiser</b> , 2021 EMBO   EMBL Symposium The Non-Coding Genome  <b>Organizer</b> , 2021 IBS-SNU Mini-Symposia on RNA Biology & Therapeutics  <b>Organizer</b> , 2021 The 26th Annual Meeting of the RNA Society

**Organizer**, 2021  
International Conference of The Korean Society for Molecular and Cellular Biology

**Organizer**, 2020  
CSHA COVID19/SARSCoV2 Rapid Research Reports, Virtual

**Scientific Organiser**, 2019  
EMBL Symposia EMBO | EMBL Symposium The Non-Coding Genome

**Organizer**, 2019  
Keystone Symposia

**Board of Reviewing Editors**, 2015-  
Science

**Editorial Board**, 2014-  
Molecular Cell

**Co-Organizer**, 2014  
Keystone Symposia

**Council Member**, 2013-2014  
Presidential Advisory Council on Science and Technology

**Meetings Committee**, 2013-2014  
The RNA Society

**Editorial Board**, 2012-  
Genes & Development

**Director**, 2011-2012  
The RNA Society

**Co-Organizer**, 2011  
Keystone Symposia

**Co-Organizer**, 2011  
Cold Spring Harbor Asia - ISSCR

**Editorial Board**, 2011-  
EMBO Journal

**Editorial Board**, 2010-  
Cell

**Co-Organizer**, 2009  
The RNA Society

**Council Member**, 2006-2008  
Presidential Advisory Council on Science and Technology

## Membership

**Foreign Member (ForMemRS)**, 2021-  
The Royal Society, UK

**Foreign Associate**, 2014-  
National Academy of Sciences (NAS), USA

**Member**, 2014-  
The Korean Academy of Science Technology

**Foreign Associate**, 2013-  
European Molecular Biology Organization (EMBO)

## Awards

- Lina 50+ Award Grand Prize** (LINA Foundation), 2021
- Asan Awards in Medicine** (ASAN Foundation), 2019
- Chen Award** (Human Genome Organisation), 2017
- S-Oil Leading Scientist** (S-Oil Science Prodigy and Culture Foundation), 2013
- The Korea S&T Award** (The Korean Federation of Science and Technology Societies), 2013
- Gwanak Grand Prize Honor Sector** (Seoul National University), 2013
- National Honor Scientist** (Ministry of Education, Science and Technology), 2010
- Amore Pacific the Grand Prize** (Amore pacific, KOFWST), 2010
- Ho-Am Prize in medicine** (Ho-Am Foundation), 2009
- L'Oreal-UNESCO Women in Science Award** (L'Oreal and UNESCO), 2008
- Woman Scientist of the Year** (Ministry of Science and Technology), 2007
- Young Scientist Award** (Ministry of Science and Technology), 2007
- Thomson Scientific Citation Award** (Thomson Corporation), 2007

## Publications

1. J. Park<sup>1</sup>, M. Kim<sup>1</sup>, H. Yi<sup>1</sup>, K. Baeg<sup>1</sup>, Y. Choi, Y. Lee, J. Lim, V. N. Kim\* (2023) "Short poly(A) tails are protected from deadenylation by the LARP1-PABP complex" ***Nature Structural & Molecular Biology***, *in press*.
2. Y. Lee<sup>1</sup>, H. Kim<sup>1</sup>, V. N. Kim\* (2023) "Sequence determinant of small RNA production by DICER" ***Nature***, 615(7951):323–330.
3. Y. Lee<sup>1</sup>, H. Lee<sup>1</sup>, H. Kim<sup>1</sup>, V. N. Kim\*, S. H. Roh\* (2023) "Structure of the human DICER–pre-miRNA complex in a dicing state" ***Nature***, 615(7951):331–338.
4. K. Kim\*, V. N. Kim\* (2022) "High-throughput in vitro processing of human primary microRNA by the recombinant Microprocessor" ***STAR Protocols***, 3(1):101042.
5. J. W. Bae, S. Kim, V. N. Kim\*, J.-S. Kim\* (2021) "Photoactivatable ribonucleosides mark base-specific RNA-binding sites" ***Nature Communications***, 12:6026.
6. S. Kim<sup>1</sup>, S. Kim<sup>1</sup>, H. R. Chang<sup>1</sup>, D. Kim<sup>1</sup>, J. Park, N. Son, J. Park, M. Yoon, G. Chae, Y. -K. Kim, V. N. Kim, Y. K. Kim, J. -W. Nam, C. Shin\*, D. Baek\* (2021) "The regulatory impact of RNA-binding proteins on microRNA targeting" ***Nature Communications***, 12:5057.
7. K. Kim<sup>1</sup>, S. Baek<sup>1</sup>, Y. Lee, C. Bastiaanssen, J. Kim, H. Kim, V. N. Kim (2021) "A quantitative map of human primary microRNA processing sites" ***Molecular Cell***, 81(16):3422-3439.e11.
8. Y. Hong, H. Jeong, K. Park, S. Lee, J. Y. Shim, H. Kim, Y. Song, S. Park, H. Y. Park, V. N. Kim, K. Ahn (2021) "STING facilitates nuclear import of herpesvirus genome during infection" ***Proceedings of the National Academy of Sciences of the U. S. A.***, 118(33):e2108631118.
9. S. Lee<sup>1</sup>, Y. Lee<sup>1</sup>, Y. Choi, A. Son, Y. Park, K.-M. Lee, J. Kim, J.-S. Kim, V. N. Kim (2021) "The SARS-CoV-2 RNA interactome" ***Molecular Cell***, 81(13):2838-2850.

10. Y. Lee<sup>1</sup>, J. Kim<sup>1</sup>, M. Kim<sup>1</sup>, Y. Kwon, S. Shin, H. Yi, H. Kim, M. Chang, C. Chang, S. Kang, V. N. Kim, J. Kim, J. Kim, S. J. Elledge, C. Kang\* (2021) "Coordinate regulation of the senescent state by selective autophagy" **Developmental Cell**, 56(10):1512-1525.
11. H. Kim<sup>1</sup>, Y. Lee<sup>1</sup>, S. -M. Kim, S. Jang, H. Choi, J. -W. Lee, T. -D. Kim, V. N. Kim\* (2021) "RNA demethylation by FTO stabilizes the FOXJ1 mRNA for proper motile ciliogenesis" **Developmental Cell**, 56(8):1118-1130.
12. Y. Na<sup>1</sup>, H. Kim, Y. Choi, S. Shin, J. H. Jung, S. C. Kwon, V. N. Kim\*, J. S. Kim\* (2021) "FAX-RIC enables robust profiling of dynamic RNP complex formation in multicellular organisms in vivo" **Nucleic Acids Research**, 49(5):e28.
13. C. Kim<sup>1</sup>, S. Sung<sup>1</sup>, J. -S. Kim<sup>1</sup>, H. Lee, Y. Jung, S. Shin, E. Kim, J. J. Seo, J. Kim, D. Kim Hiroyuki Niida, V. N. Kim, D. Park\*, J. Lee\* (2021) "Telomeres reformed with non-telomeric sequences in mouse embryonic stem cells" **Nature communications**, 12:1097.
14. S. Hwang<sup>1</sup>, H. Jung, S. Mun, S. Lee, K. Park, S. C. Baek, H. Moon, H. Kim, B. Kim, Y. Choi, Y. Go, W. Tang, J. Choi, J. Choi, H. Cha, H. Park, P. Liang, V. N. Kim, K. Han\*, K. Ahn\* (2021) "L1 retrotransposons exploit RNA m6A modification as an evolutionary driving force" **Nature communications**, 12:880.
15. S. C. Kwon<sup>1</sup>, H. Jang<sup>1</sup>, S. Shen<sup>1</sup>, S. C. Baek, K. Kim, J. Yang, J. Kim, J.-S. Kim, S. Wang, Y. Shi, F. Li\*, V. N. Kim\* (2020) "ERH facilitates microRNA maturation through the interaction with the N-terminus of DGCR8" **Nucleic Acids Research**, 48(19):11097-11112.
16. R. Shang<sup>1</sup>, S. C. Baek<sup>1</sup>, K. Kim, B. Kim, V. N. Kim, E. C. Lai (2020) "Genomic Clustering Facilitates Nuclear Processing of Suboptimal Pri-miRNA Loci" **Molecular Cell**, 78(2):303–316.
17. J. W. Bae, S. C. Kwon, Y. Na, V. N. Kim\*, and J. S. Kim\* (2020) "Chemical RNA digestion enables robust RNA-binding site mapping at single amino acid-resolution" **Nature Structural & Molecular Biology**, 27:678-682.
18. D. Kim<sup>1</sup>, J.-Y. Lee, J.-S. Yang, J. W. Kim, V. N. Kim\*, H. Chang\* (2020) "The architecture of SARS-CoV-2 transcriptome" **Cell**, 181(4):914-921.e10.
19. H. Kim<sup>1</sup>, J. Kim<sup>1</sup>, S. Yu, Y.-Y. Lee, J. Park, R. J. Choi, S.-J. Yoon, S.-G. Kang, V. N. Kim (2020) "A mechanism for microRNA arm switching regulated by uridylation" **Molecular Cell**, 78(6):1224-1236.e5
20. S. Yu and V. N. Kim (2020) "A tale of noncanonical tails: gene regulation by post-transcriptional RNA tailing" **Nature Reviews Molecular Cell Biology**, 21:542-556.
21. D. Kim<sup>1</sup>, Y. Lee<sup>1</sup>, S.-J. Jung<sup>1</sup>, J. Yeo<sup>1</sup>, J. J. Seo, Y.-Y. Lee, J. Lim, H. Chang, J. Song, J. Yang, J. S. Kim, G. Jung, K. Ahn, V. N. Kim (2020) "Viral hijacking of the TENT4-ZCCHC14 complex protects viral RNAs via mixed tailing" **Nature Structural & Molecular Biology**, 27:581–588.
22. J. Won, S. Lee, M. Park, T. Y. Kim, M. G. Park, B. Y. Choi, D. Kim, H. Chang, V. N. Kim, C. Justin Lee (2020) "Development of a Laboratory-safe and Low-cost Detection Protocol for SARS-CoV-2 of the Coronavirus Disease 2019 (COVID-19)" **Exp Neurobiol.**, 29(2):107-119.
23. J. Min, T. S. Han, Y. Sohn, T. Shimizu, B. Choi, S. W. Bae, K. Hur, S. H. Kong, Y. S. Suh, H. J. Lee, J. S. Kim, J. K. Min, W. H. Kim, V. N. Kim, E. Choi, J. R. Goldenring, H. K. Yang (2020) "microRNA-30a arbitrates intestinal-type early gastric carcinogenesis by directly targeting ITGA2." **Gastric Cancer.**, 23:600-613.
24. S. Shin, J. H. Hong, Y. Na, M. Lee, W. J. Qian, V. N. Kim, J. S. Kim (2020) "Development of Multiplexed Immuno-N-Terminomics to Reveal the Landscape of Proteolytic

- Processing in Early Embryogenesis of *Drosophila melanogaster*" ***Anal. Chem.***, 92(7):4926-4934.
25. Y. Choi<sup>1</sup>, K. Jeong<sup>1</sup>, S. Shin<sup>1</sup>, J. W. Lee<sup>1</sup>, Y. Lee, S. Kim, S. A. Kim, J. Jung, K. P. Kim, V. N. Kim\*, J. S. Kim\*;(2020) "MS1-level proteome quantification platform allowing maximally increased multiplexity for SILAC and in vitro chemical labeling" ***Anal. Chem.***, 92(7):4980-4989.
  26. S. Shin<sup>1</sup>, Y. Jung<sup>1</sup>, H. Uhm, M. Song, S. Son, J. Goo, C. Jeong, J.-J. Song, V. N. Kim, S. Hohng (2020) "Quantification of purified endogenous miRNAs with high sensitivity and specificity" ***Nature communications***, 11(6033).
  27. J. K. Kim, J. Cho, S. H. Kim, H.C Kang, D.S Kim, V. N. Kim, J.H Lee (2019) "Brain somatic mutations in MTOR reveal translational dysregulations underlying intractable focal epilepsy" ***J Clin Invest.***, 129(10):4207-4223.
  28. D. Kang<sup>1</sup>, J. Shin<sup>1</sup>, Y. Cho, H. S. Kim, Y. R. Gu, H. Kim, K. T. You, M. J. Chang, C. B. Chang, S. B. Kang, J. S. Kim, V. N. Kim, J. H. Kim (2019) "Stress-activated miR-204 governs senescent phenotypes of chondrocytes to promote osteoarthritis development" ***Science Translational Medicine***, 11(486): eaar6659.
  29. J. Jung, K. Jeong, Y. Choi, S. A. Kim, H. Kim, J. W. Lee, V. N. Kim, K. P. Kim, J. S. Kim (2019) "Deuterium-Free, Three-Plexed Peptide Diethylation for Highly Accurate Quantitative Proteomics" ***J Proteome Res.***, 18(3):1078-1087.
  30. H. Kim<sup>1</sup>, J. Kim<sup>1</sup>, K. Kim, H. Chang, K. You, V. N. Kim (2019) "Bias-minimized quantification of microRNA reveals widespread alternative processing and 3' end modification" ***Nucleic Acids Research***, 47(5): 2630-2640.
  31. S. C. Kwon, S. C. Baek, Y. G. Choi, J. Yang, Y. Lee, J.-S. Woo\*, V. N. Kim\* (2019) "Molecular basis for the single-nucleotide precision of primary microRNA processing" ***Molecular Cell***, 73(3):505-518.
  32. J. Yeo, V. N. Kim (2018) "U-tail as a guardian against invading RNAs" ***Nature structural & molecular biology***, 25, 903-905.
  33. Y. Kim<sup>1</sup>, J. Park<sup>1</sup>, S. Kim<sup>1</sup>, M. Kim, M. G. Kang, C. Kwak, M. Kang, B. Kim, H. W. Rhee, V. N. Kim (2018) "PKR senses nuclear and mitochondrial signals by interacting with endogenous double-stranded RNAs" ***Molecular Cell***, 71(6):1051-1063.e6.
  34. J. Lim<sup>1</sup>, D. Kim<sup>1</sup>, Y. Lee<sup>1</sup>, M. Ha, M. Lee, J. Yeo, H. Chang, J. Song, K. Ahn, V. N. Kim (2018) "Mixed tailing by TENT4A and TENT4B shields mRNA from rapid deadenylation" ***Science***, eaam5794.
  35. H. Yi<sup>1</sup>, J. Park<sup>1</sup>, M. Ha, J. Lim, H. Chang, V. N. Kim (2018) "PABP Cooperates with the CCR4-NOT Complex to Promote mRNA Deadenylation and Block Precocious Decay" ***Molecular Cell***, 70(6):1081-1088.e5..
  36. B. Kim, V. N. Kim (2018) "fCLIP-seq for transcriptomic footprinting of dsRNA-binding proteins: Lessons from DROSHA" ***Methods***, S1046-2023(18)30064-1.
  37. T. A. Nguyen<sup>1</sup>, J. Park<sup>1</sup>, T. L. Dang, Y. G. Choi, V. N. Kim (2018) "Microprocessor depends on hemin to recognize the apical loop of primary microRNA" ***Nucleic Acids Res.***, 46(11):5726-5736.
  38. A. Son<sup>1</sup>, J.-E. Park<sup>1</sup>, V. N. Kim (2018) "PARN and TOE1 Constitute a 3' End Maturation Module for Nuclear Non-coding RNAs" ***Cell Reports***, 23(3):888-898.
  39. H. Chang<sup>1</sup>, J. Yeo<sup>1</sup>, J.-g. Kim, H. Kim, J. Lim, M. Lee, H. H. Kim, J. Ohk, H.-Y. Jeon, H. Lee, H. Jung, K.-W. Kim, V. N. Kim (2018) "Terminal Uridyltransferases Execute Programmed Clearance of Maternal Transcriptome in Vertebrate Embryos" ***Molecular Cell***, 70(1):72-82.e7.

40. V. N. Kim (2018) "RNA-targeting CRISPR comes of age" *Nature Biotechnology*, 36:44–45.
41. B. Kim<sup>1</sup>, K. Jeong<sup>1</sup>, V. N. Kim (2017) "Genome-wide Mapping of DROSHA Cleavage Sites on Primary MicroRNAs and Noncanonical Substrates" *Molecular Cell*, 66(2):258–269.
42. J. Choi, Y.-K. Kim, K. Park, J. Nah, S. S. Yoon, D. W. Kim, V. N. Kim, R. H. Seong (2016) "MicroRNA-139-5p regulates proliferation of hematopoietic progenitors and is repressed during BCR-ABL-mediated leukemogenesis" *Blood*, 128(17):2117–2129.
43. J. Lim<sup>1</sup>, M. Lee<sup>1</sup>, A. Son, H. Chang, V. N. Kim (2016) "mTAIL-seq reveals dynamic poly(A) tail regulation in oocyte-to-embryo development" *Genes & Development*, 30:1671–1682.
44. B. Choi<sup>1</sup>, J. Yu<sup>1</sup>, T.-S. Han, Y.-K. Kim, K. Hur, B.-C. Kang, W. H. Kim, D.-Y. Kim, H.-J. Lee, V. N. Kim, H.-K. Yang (2016) "Gastric Carcinogenesis in the miR-222/221 Transgenic Mouse Model" *Cancer Research and Treatment*, 49(1):150–160.
45. J.-E. Park<sup>1</sup>, H. Yi<sup>1</sup>, Y. Kim<sup>1</sup>, H. Chang, V. N. Kim (2016) "Regulation of Poly(A) Tail and Translation during the Somatic Cell Cycle" *Molecular Cell*, 62(3):462–471.
46. Y.-K. Kim<sup>\*</sup>, B. Kim, V. N. Kim<sup>\*</sup> (2016) "Re-evaluation of the roles of DROSHA, Exportin 5, and DICER in microRNA biogenesis" *Proceedings of the National Academy of Sciences of the U. S. A.*, 113(13):E1881–E1889.
47. S. C. Kwon<sup>1</sup>, T. A. Nguyen<sup>1</sup>, Y.-G. Choi<sup>1</sup>, M. H. Jo, S. Hohng, V. N. Kim<sup>\*</sup>, J.-S. Woo<sup>\*</sup> (2016) "Structure of Human DROSHA" *Cell*, 164(1-2):81–90.
48. K. T. You, J. Park, and V. N. Kim (2015) "Role of the small subunit processome in the maintenance of pluripotent stem cells" *Genes & Development*, 29:2004–2009.
49. J. Cho<sup>1</sup>, N.-K. Yu<sup>1</sup>, J.-H. Choi, S.-E. Sim, S. J. Kang, C. Kwak, S.-W. Lee, J. Kim, D. I. Choi, V. N. Kim<sup>\*</sup>, B.-K. Kaang<sup>\*</sup> (2015) "Multiple repressive mechanisms in the hippocampus during memory formation" *Science*, 350(6256):82–87.
50. M. Kampmann, M. A. Horlbeck, Y. Chena, J. C. Tsai, M. C. Bassik, L. A. Gilbert, J. E. Villalta, S. C. Kwon, H. Chang, V. N. Kim, J. S. Weissman (2015) "Next-generation libraries for robust RNA interference-based genome-wide screens" *Proceedings of the National Academy of Sciences of the U. S. A.*, 112(26):E3384–E3391.
51. S. Kim<sup>1</sup>, D. Seo<sup>1</sup>, D. Kim, Y. Hong, H. Chang, D. Baek, V. N. Kim, S. Lee, K. Ahn (2015) "Temporal Landscape of MicroRNA-Mediated Host-Virus Crosstalk during Productive Human Cytomegalovirus Infection" *Cell Host & Microbe*, 17(6):838–851.
52. T. A. Nguyen, M. H. Jo, Y.-G. Choi, J. Park, S. C. Kwon, S. Hohng, V. N. Kim<sup>\*</sup>, J.-S. Woo<sup>\*</sup> (2015) "Functional Anatomy of the Human Microprocessor" *Cell*, 161(6):1374–1387.
53. B. Kim<sup>1</sup>, M. Ha<sup>1</sup>, L. Loeff<sup>1</sup>, H. Chang, D. K. Simanshu, S. Li, M. Fareh, D. J. Patel, C. Joo<sup>\*</sup>, V. N. Kim<sup>\*</sup> (2015) "TUT7 controls the fate of precursor microRNAs by using three different uridylation mechanisms" *EMBO Journal*, 35(2):115–236. Suppl.
54. K. Boo<sup>1</sup>, J. Bhin<sup>1</sup>, Y. Jeon, J. Kim, H. J. Shin, J. E. Park, K. Kim, C. R. Kim, H. Jang, I. H. Kim, V. N. Kim, D. Hwang, H. Lee, S. H. Baek (2015) "Pontin functions as an essential coactivator for Oct4-dependent lincRNA expression in mouse embryonic stem cells" *Nature Communications*, 6:6810.
55. T.-S. Han, K. Hur, G. Xu, B. Choi, Y. Okugawa, Y. Toiyama, H. Oshima, M. Oshima, H.-J. Lee, V. N. Kim, A. N. Chang, A. Goel, and H.-K. Yang (2015) "MicroRNA-29c mediates initiation of gastric carcinogenesis by directly targeting ITGB1" *Gut*, 64:203–214.

56. I. Jang<sup>1</sup>, H. Chang<sup>1</sup>, Y. Jun, S. Park, J. O. Yang, B. Lee, W. Kim, V. N. Kim, and S. Lee (2015) "miRseqViewer: Multi-panel visualization of sequence, structure and expression for analysis of microRNA sequencing data" *Bioinformatics*, 31(4): 596-598.
57. J. Lim<sup>1</sup>, M. Ha<sup>1</sup>, H. Chang<sup>1</sup>, S. C. Kwon, D. K. Simanshu, D. J. Patel, and V. N. Kim (2014) "Uridylation by TUT4 and TUT7 marks mRNA for degradation" *Cell*, 159(6):1365-1376.
58. M. Lee, Y. Choi, K. Kim, H. Jin, J. Lim, T. A. Nguyen, J. Yang, M. Jeong, A. J. Giraldez, H. Yang, D. J. Patel, and V. N. Kim (2014) "Adenylation of maternally inherited microRNAs by *Wispy*" *Molecular Cell*, 56(5):696-707.
59. Y. Kim<sup>1</sup>, J. Yeo<sup>1</sup>, J. H. Lee<sup>1</sup>, J. Cho, D. Seo, J. Kim, and V. N. Kim (2014) "Deletion of human tarbp2 reveals cellular microRNA targets and cell cycle function of TRBP" *Cell Reports*, 9:1061-1074.
60. M. Lee, B. Kim and V. N. Kim (2014) "Emerging roles of RNA modifications: m6A and U-tail" *Cell*, 158:980-987.
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62. Y. Kim, J. H. Lee, J.-E. Park, J. Cho, H. Yi and V. N. Kim (2014) "PKR is activated by cellular dsRNAs during mitosis and acts as a mitotic regulator" *Genes & Development*, 28: 1310-1322.
63. H. Chang<sup>1</sup>, J. Lim<sup>1</sup>, M. Ha, and V. N. Kim (2014) "TAIL-seq: Genome-wide Determination of Poly(A) Tail Length and 3' End Modifications" *Molecular Cell*, 53(6):1044-1052.
64. J.-S. Woo, and V. N. Kim (2014) "MeCP2 Caught Moonlighting as a Suppressor of MicroRNA Processing" *Developmental Cell*, 28(5):477-478.
65. Y. Tian<sup>1</sup>, D. K. Simanshu<sup>1</sup>, J.-B. Ma, J.-E. Park, I. Heo, V. N. Kim, and D. J. Patel (2014) "A Phosphate-Binding Pocket within the Platform-PAZ-Connector Helix Cassette of Human Dicer" *Molecular Cell*, 53:606-616.
66. Y.-K. Kim<sup>1</sup>, G. Wee<sup>1</sup>, J. Park, J. Kim, D. Baek, J.-S. Kim\*, and V. N. Kim\* (2013) "TALEN-based knockout library for human microRNAs" *Nature Structural and Molecular Biology*, 20(12):1458-1464.
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68. S.-R. Ryoo, J. Lee, J. Yeo, H.-K. Na, Y.-K. Kim, H. Jang, J. H. Lee, S. W. Han, Y. Lee, V. N. Kim, and D.-H. Min (2013) "Quantitative and Multiplexed MicroRNA Sensing in Living Cells Based on Peptide Nucleic Acid and Nano Graphene Oxide (PANGO)" *ACS Nano*, 7(7):5882-5891.
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