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Position	Professor , Seoul National University Director , Center for RNA Research, Institute for Basic Science
Education	Ph. D., Biochemistry , 1994-1998 Oxford University, <i>Oxford, UK</i> M. S., Microbiology , 1992-1994 Seoul National University, <i>Seoul, Korea</i> B. A., Microbiology , 1988-1992 Seoul National University, <i>Seoul, Korea</i>
Professional Experience	Professor , <i>School of Biological Sciences</i> , 2013.03- Seoul National University Director , <i>Center for RNA Research</i> , 2012.08- Institute for Basic Science SNU Distinguished Fellow , 2010.02.01.-2016.01.31. Seoul National University Associate Professor , <i>School of Biological Sciences</i> , 2008-2013 Seoul National University Assistant Professor , <i>School of Biological Sciences</i> , 2004-2008 Seoul National University Research Associate Professor , <i>Advanced Training Program for Biological Sciences</i> , 2001-2004 Seoul National University Postdoc fellow , <i>Howard Hughes Medical Institute</i> , 1999-2001 University of Pennsylvania
Professional Services	Board of Reviewing Editors , 2015.05- Science Editorial Board , 2014- Molecular Cell 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 Associate Member, 2014-

National Academy of Sciences (NAS), USA

Member, 2014-

The Korean Academy of Science Technology

Foreign Associate Member, 2013-

European Molecular Biology Organization (EMBO)

Awards

Chen Award (Human Genome Organisation), 2017

S-Oil Leading Scientist of the Year (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. Baekgyu Kim, Kyowon Jeong, V. Narry Kim (2017) " Genome-wide Mapping of DROSHA Cleavage Sites on Primary MicroRNAs and Noncanonical Substrates" **Molecular Cell**, 66(2):258-269
2. J. Lim, M. Lee, 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.
3. B. Choi, J. Yu, 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.
4. J.-E. Park, H. Yi, Y. Kim, H. Chang, V. N. Kim (2016) "Regulation of Poly(A) Tail and

Translation during the Somatic Cell Cycle" *Molecular Cell*, 62(3):462-471.

5. Y.-K. Kim*, B. Kim, V. N. Kim* (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. (*co-corresponding authors)
6. S. C. Kwon, T. A. Nguyen, Y.-G. Choi, M. H. Jo, S. Hohng, V. N. Kim* and J.-S. Woo* (2016) "Structure of Human DROSHA" *Cell*, 164(1-2):81-90. (*co-corresponding authors)
7. J. Cho, N.-K. Yu, J.-H. Choi, S.-E. Sim, S. J. Kang, C. Kwak, S.-W. Lee, J. Kim, D. I. Choi, V. N. Kim* and B.-K. Kaang* (2015) "Multiple repressive mechanisms in the hippocampus during memory formation" *Science*, 350(6256):82–87. (*co-corresponding authors)
8. 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(19):2004-2009.
9. 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.
10. S. Kim, D. Seo, 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.
11. T. A. Nguyen, M. H. Jo, Y.-G. Choi, J. Park, S. C. Kwon, S. Hohng, V. N. Kim* and J.-S. Woo* (2015) "Functional anatomy of the human Microprocessor" *Cell*, 161(6):1374-1387. (*co-corresponding authors)
12. B. Kim, M. Ha, L. Loeff, H. Chang, D. K. Simanshu, S. Li, M. Fareh, D. J. Patel, C. Joo* and V. N. Kim* (2015) "TUT7 controls the fate of precursor microRNAs by using three different uridylation mechanisms" *EMBO Journal*, 34(13):1801-1815. (*co-corresponding authors)
13. K. Boo, J. Bhin, 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 and S. H. Baek (2015) "Pontin functions as an essential coactivator for Oct4-dependent lincRNA expression in mouse embryonic stem cells" *Nature Communications*, 6:6810.
14. 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.
15. I. Jang, H. Chang, 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.
16. J. Lim, M. Ha, H. Chang, 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.
17. 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.
18. Y. Kim, J. Yeo, J. H. Lee, 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.
19. M. Lee, B. Kim and V. N. Kim (2014) "Emerging roles of RNA modifications: m6A and U-tail" *Cell*, 158:980-987.
20. M. Ha and V. N. Kim (2014) "Regulation of microRNA biogenesis" *Nature Reviews*

Molecular Cell Biology, 15, 509–524.

21. 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.
22. H. Chang, J. Lim, 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.
23. J.-S. Woo, and V. N. Kim (2014) "MeCP2 Caught Moonlighting as a Suppressor of MicroRNA Processing" ***Developmental Cell***, 28(5):477-478.
24. Y. Tian, D. K. Simanshu, 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.
25. Y.-K. Kim, G. Wee, 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.
26. S. C. Kwon, H. Yi, K. Eichelbaum, S. Föhr, B. Fischer, K. T. You, A. Castello, J. Krijgsveld, M. W. Hentze, and V. N. Kim (2013) "The RNA-binding protein repertoire of embryonic stem cells" ***Nature Structural and Molecular Biology***, 20(9):1122-1130.
27. 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.
28. C. Joo, M. Fareh, V. N. Kim (2013) "Bringing single-molecule spectroscopy to macromolecular protein complexes" ***Trends in Biochemical Sciences***, 38(1):30-37.
29. J. Cho, H. Chang, S. C. Kwon, B. Kim, Y. Kim, J. Choe, M. Ha, Y. K. Kim and V. N. Kim (2012) "LIN28A is a suppressor of ER-associated translation in embryonic stem cells" ***Cell***, 151: 765-777.
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34. Y. Kim and V. N. Kim (2012) "MicroRNA Factory: RISC Assembly from Precursor MicroRNAs" ***Molecular Cell***, 46:384-386.
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36. J.-E. Park, I. Heo, Y. Tian, D. K. Simanshu, H. Chang, D. Jee, D. J. Patel and V. N. Kim (2011) "Dicer recognizes the 5' end of RNA for efficient and accurate processing"

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37. K.-H. Yeom, I. Heo, J. Lee, S. Hohng, V. N. Kim and C. Joo (2011) "Single-molecule approach to immunoprecipitated protein complexes: insights into miRNA uridylation" **EMBO Reports**, 12:690-969.
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40. I. Heo and V. N. Kim (2009) "Regulating the Regulators: Posttranslational Modifications of RNA Silencing Factors" **Cell**, 139:28-31.
41. H. Jin, M. R. Suh, J. Han, K.-H. Yeom, Y. Lee, I. Heo, M. Ha, S. Hyun and V. N. Kim (2009) "Human UPF1 Participates in Small RNA-Induced mRNA Downregulation" **Molecular and Cellular Biology**, 20(21):5789-99.
42. I. Heo, C. Joo, Y.-K. Kim, M. Ha, M.-J. Yoon, J. Cho, K.-H. Yeom, J. Han and V. N. Kim (2009) "TUT4 in Concert with Lin28 Suppresses MicroRNA Biogenesis through Pre-MicroRNA Uridylation" **Cell**, 138:696-708.
43. Y.-K. Kim, J. Yu, T. S. Han, S. Y. Park, B. Namkoong, D. H. Kim, K. Hur, M. W. Yoo, H. J. Lee, H. K. Yang, and V. N. Kim (2009) "Functional links between clustered microRNAs: suppression of cell-cycle inhibitors by microRNA clusters in gastric cancer" **Nucleic Acids Research**, 37:1672-1681.
44. V. N. Kim, J. Han and M. C. Siomi (2009) "Biogenesis of small RNAs in animals" **Nature Reviews Molecular Cell Biology**, 10:126-139.
45. J. Han, J. S. Pederson, S. C. Kwon, C. D. Belair, Y.-K. Kim, K. H. Yeom, W. Y. Yang, D. Haussler, R. Blelloch, and V. N. Kim (2009) "Posttranscriptional crossregulation between Drosha and DGCR8" **Cell**, 136:75-84.
46. S. Y. Park, J. H. Lee, M. Ha, J. W. Nam and V. N. Kim (2009) "miR-29 miRNAs activate p53 by targeting p85a and CDC42" **Nature Structural and Molecular Biology**, 16(1):23-9.
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50. H. H. Lee, Y. S. Kim, K. H. Kim, I. Heo, S. K. Kim, O. Kim, H. K. Kim, J. Y. Yoon, H. S. Kim, D. J. Kim, H. J. Yoon, S. J. Kim, B. G. Lee, H. K. Song, V. N. Kim, C. M. Park and S. W. Suh (2007) "Structural and functional insights into Dom34, a key component of No-Go mRNA decay" **Molecular Cell**, 27(6):938-50.
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Molecular Therapy, 15(1):167-72.

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55. K. H. Yeom, Y. Lee, J. Han, M. R. Suh and V. N. Kim (2006) "Characterization of DGCR8/Pasha, the essential cofactor for Drosha in primary miRNA processing" ***Nucleic Acids Research***, 34(16):4622-9.
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