

# Prof. V. Narry Kim

School of Biological Sciences, Seoul National University

1 Gwanak-Ro, Gwanak-Gu, Seoul 08826

[www.narrykim.org](http://www.narrykim.org)

[narrykim@snu.ac.kr](mailto:narrykim@snu.ac.kr)

<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 Seoul National University  <b>Professor</b> , <i>School of Biological Sciences</i> , 2013 Seoul National University  <b>Director</b> , <i>Center for RNA Research</i> , 2012 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>Co-Organizer</b> , 2021 IBS-SNU Mini-Symposia on RNA Biology & Therapeutics  <b>Co-Organizer</b> , 2021 The 26th Annual Meeting of the RNA Society  <b>Organizer</b> , 2021 International Conference of The Korean Society for Molecular and Cellular Biology  <b>Co-Organizer</b> , 2019 EMBL Symposia  <b>Co-Organizer</b> , 2019 Keystone Symposia

**Board of Reviewing Editors**, 2015-  
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 Member (ForMemRS)**, 2021-  
The Royal Society, UK

**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

**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 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. 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**, in press.
2. 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 reforged with non-telomeric sequences in mouse embryonic stem cells" **Nature communications**, 12:1097.
3. 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.
4. S. Lee, Y. Lee, Y. Choi, A. Son, Y. Park, K. Lee, J. Kim, J. S. Kim, V. N. Kim (2021) "The SARS-CoV-2 RNA interactome" **Molecular Cell**, published online.
5. C. Kim, S. Sung, J. -S. Kim<sup>1</sup>, H. Lee, Y. Jung, S. Shin, E. Kim, J. J. Seo, J. Kim, D. Kim, H. Niida, V. N. Kim D. Park, J. Lee (2021) "Telomeres reforged with non-telomeric sequences in mouse embryonic stem cells" **Nature communications**, 12:1097.
6. H. Kim, Y. Lee, 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**, in press.
7. S. Lee, Y. Lee, 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**, in press.
8. S. C. Kwon, H. Jang, S. Shen, 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.
9. R. Shang, S. C. Baek, 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.
10. 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 Cell Biology**, published online.
11. D. Kim, J.-Y. Lee, J.-S. Yang, J. W. Kim, V. N. Kim, and H. Chang (2020) "The architecture of SARS-CoV-2 transcriptome" **Cell**, 181:914-921.
12. H. Kim, J. Kim, 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):1224-11236.e5.
13. S. Yu and V. N. Kim (2020) "A tale of noncanonical tails: gene regulation by post-transcriptional RNA tailing" **Nature Reviews Molecular Cell Biology**, published online.
14. D. Kim, Y. Lee, S.-J. Jung, J. Yeo, 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.
15. 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.
  16. 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.**, published online.
  17. 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.
  18. Y. Choi, K. Jeon<sup>1</sup>, S. Shin, J. W. Lee, 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.
  19. 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.
  20. D. Kang, J. Shin, 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.
  21. 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.
  22. H., Kim, J. Kim, 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.
  23. 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.
  24. J. Yeo, V. N. Kim (2018) "U-tail as a guardian against invading RNAs" **Nature structural & molecular biology**, 25, 903-905.
  25. Y. Kim, J. Park, S. Kim, 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.
  26. J. Lim, D. Kim, Y. Lee, 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.
  27. H. Yi, J. Park, 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.
  28. B. Kim, V. N. Kim (2018) "fCLIP-seq for transcriptomic footprinting of dsRNA-binding proteins: Lessons from DROSHA" **Methods**, S1046-2023(18)30064-1.

29. T. A. Nguyen, J. Park, 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.***, gky248.
30. A. Son, J.-E. Park, V. N. Kim (2018) "PARN and TOE1 Constitute a 3' End Maturation Module for Nuclear Non-coding RNAs" ***Cell Reports***, 23(3):888-898.
31. H. Chang, J. Yeo, J.-g. Kim, H. Kim, J. Lim, M. Lee, H. H. Kim, J. Ohk, H.-Y. Jeon, H. Lee, H. Jung, K.-W. Kim and V. N. Kim (2018) "Terminal Uridyltransferases Execute Programmed Clearance of Maternal Transcriptome in Vertebrate Embryos" ***Molecular Cell***, 70(1):72-82.e7.
32. V. N. Kim (2018) "RNA-targeting CRISPR comes of age" ***Nature Biotechnology***, 36:44–45.
33. B Kim, K Jeong, V. N Kim (2017) "Genome-wide Mapping of DROSHA Cleavage Sites on Primary MicroRNAs and Noncanonical Substrates" ***Molecular Cell***, 66(2):258-269.
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35. 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.
36. 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.
37. 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.
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39. 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.
40. 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.
41. 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.
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43. 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.
44. 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.
45. 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.

46. 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.
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49. 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 *Wisp*" **Molecular Cell**, 56(5):696-707.
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51. M. Lee, B. Kim and V. N. Kim (2014) "Emerging roles of RNA modifications: m6A and U-tail" **Cell**, 158:980-987.
52. M. Ha and V. N. Kim (2014) "Regulation of microRNA biogenesis" **Nature Reviews Molecular Cell Biology**, 15, 509-524.
53. 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.
54. 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.
55. J.-S. Woo, and V. N. Kim (2014) "MeCP2 Caught Moonlighting as a Suppressor of MicroRNA Processing" **Developmental Cell**, 28(5):477-478.
56. 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.
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58. 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.
59. 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.
60. C. Joo, M. Fareh, V. N. Kim (2013) "Bringing single-molecule spectroscopy to macromolecular protein complexes" **Trends in Biochemical Sciences**, 38(1):30-37.
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64. H. Jin, V. N. Kim and S. Hyun (2012) "Conserved microRNA miR-8 controls body size in response to steroid signaling in *Drosophila*" *Genes & Development*, 26:1427-1432.
65. Y.-K. Kim, J. Yeo, B. Kim, M. Ha and V. N. Kim (2012) "Short Structured RNAs with Low GC Content Are Selectively Lost during Extraction from a Small Number of Cells" *Molecular Cell*, 46:893-895.
66. Y. Kim and V. N. Kim (2012) "MicroRNA Factory: RISC Assembly from Precursor MicroRNAs" *Molecular Cell*, 46:384-386.
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