

Jinju HAN, Ph.D.

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Education

- 2003.03-2009.02 Ph.D., School of Biological Sciences, Seoul National University, Korea
“The Drosha-DGCR8 complex in pri-miRNA processing: the action mechanism and cross-regulation” Advisor: V. Narry Kim, Ph.D.
- 1999.03-2003.02 B.S., Double majors in Biological Sciences and Chemistry, Seoul National University, Korea (cum laude)

Research Experiences

- 2015.09-present Senior Research Associate
Salk Institute for Biological Studies, USA
Advisor: Fred H. Gage, Ph.D.
- 2009.10-2015.08 Research Associate
Salk Institute for Biological Studies, USA
Advisor: Fred H. Gage, Ph.D.
- 2009.03-2009.09 Postdoctoral Fellow
School of Biological Sciences, Seoul National University, Korea
Advisor: V. Narry Kim, Ph.D.

Honors and Awards

- 2011.08-2014.07 Postdoctoral Fellowship, Life Science Research Foundation: Salk Institute Fellow
- 2009 Best Thesis Award, Korean Society for Molecular and Cellular Biology
- 2009 Best Thesis Award, College of Natural Sciences, Seoul National University
- 2008 Young Brain Award, BK21, Korea Research Foundation
- 2007 Best Research Paper Award, BK21, Korea Research Foundation
- 2007 Young Scientist Award, Women’s Bioscience Forum
- 2006 Special Seoul Science Fellowship, City of Seoul
- 2005 Seoul Science Fellowship, City of Seoul
- 2004 Seoul National University Fellowship, Seoul National University

Publications

1. **J. Han**[#], H.J. Kim*, S.T. Schafer*, A. Paquola, G.D. Clemenson, T. Toda, J. Oh, A.R. Pankonin, B.S. Lee, S.T. Johnston, A. Sarkar, A.M. Denli and F.H. Gage[#] (2016) " Functional implications of miR-19 in the migration of newborn neurons in the adult brain" **Neuron** 91, 79-89; doi: 10.1016/j.neuron.2016.05.034 *equal contribution, [#]co-correspondence
2. **J. Han**, A. Sarkar and F.H. Gage (2015) "MIR137: big impacts from small changes" **Nature Neuroscience** 18, 931–933; doi:10.1038/nn.4045
3. S.T. Schafer, **J. Han**, M. Pena, O.V.B. Halbach, J. Peters, and F.H. Gage (2015) "The Wnt adaptor protein ATP6AP2 regulates multiple stages of adult hippocampal neurogenesis" **The Journal of Neuroscience** 35(12), 4983-4998; doi: 10.1523/JNEUROSCI.4130-14.2015
4. **J. Han**, A.M. Denli, and F.H. Gage (2012) "The enemy within: intronic miR-26b represses its host gene, ctdsp2, to regulate neurogenesis" **Genes & Development**, 26:6-10; doi: 10.1101/gad.184416.111.
5. 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**, 29(21):5789-99; doi: 10.1128/MCB.00653-09 *equal contribution
6. 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; doi: 10.1016/j.cell.2009.08.002 *equal contribution
7. V.N. Kim, **J. Han**, and M.C. Siomi (2009) "Biogenesis of small RNAs in animals" **Nature Reviews: Molecular Cell Biology**, 10:126-139; doi: 10.1038/nrm2632
8. **J. Han**, J. S. Pedersen*, S. C. Kwon*, C. 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; doi: 10.1016/j.cell.2008.10.053 *equal contribution
9. I. Heo*, C. Joo*, J. Cho, M. Ha, **J. Han** and V. N. Kim (2008) "Lin28 Mediates the Terminal Uridylation of let-7 Precursor MicroRNA" **Molecular Cell**, 32:1-9; doi: 10.1016/j.molcel.2008.09.014 *equal contribution
10. Y. Lee, **J. Han**, K. H. Yeom, H. Jin and V.N. Kim (2006) "Drosha in primary microRNA processing" **Cold Spring Harbor Symposia on Quantitative Biology** 71:51-7

11. 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; doi: 10.1093/nar/gkl458
12. **J. Han***, Y. Lee*, K. H. Yeom*, J. W. Nam, I. Heo, J. K. Rhee, S. Y. Sohn, Y. Cho, B. T. Zhang, and V. N. Kim (2006) "Molecular basis for the recognition of primary microRNAs by the Drosha-DGCR8 complex" **Cell** 125(5):887-901; doi: 10.1016/j.cell.2006.03.043 *equal contribution
13. J. W. Nam, K. R. Shin, **J. Han**, Y. Lee, and V. N. Kim, B. T. Zhang (2005) "Human microRNA prediction through a probabilistic co-learning model of sequence and structure" **Nucleic Acids Research** 33(11):3570-81; doi: 10.1093/nar/gki668
14. **J. Han***, Y. Lee*, K. H. Yeom, Y. K. Kim, H. Jin and V. N. Kim (2004) "The Drosha-DGCR8 complex in primary microRNA processing" **Genes & Development** 18(24):3016-27; doi: 10.1101/gad.1262504 *equal contribution
15. Y. Lee, M. Kim, **J. Han**, K. H. Yeom, S. Lee, S. H. Baek, and V. N. Kim (2004) "MicroRNA genes are transcribed by RNA polymerase II" **EMBO J.** 23(20):4051-60; doi: 10.1038/sj.emboj.7600385
16. Y. Lee, C. Ahn, **J. Han**, H. Choi, J. Kim, J. Yim, J. Lee, P. Provost, O. Radmark, S. Kim, and V. N. Kim (2003) "The nuclear RNase III Drosha initiates microRNA processing" **Nature** 425(6956):415-9; doi:10.1038/nature01957