

# Hoon Kim

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CONTACT            The Jackson Laboratory for Genomic Medicine            (860) 837-2474  
INFORMATION    10 Discovery Drive            Hoon.Kim@jax.org  
Farmington, CT 06032

EDUCATION       **Columbia University**, New York, NY

Ph.D., Electrical Engineering, 2011

- Thesis Topic: *Selection of Disease-Associated Gene Sets*
- Advisor: Dr. Dimitris Anastassiou

**University of Michigan**, Ann Arbor, MI

M.Sc., Electrical Engineering-Systems, 2005

**Korea University**, Seoul, South Korea

B.E., Electrical Engineering, 2000

B.Sc., Life Science, 1998

## JOURNAL PUBLICATIONS

1. The Glioma Longitudinal Analysis Consortium (**Kim H** included). “Glioma Through the Looking GLASS: the Glioma Longitudinal Analysis consortium, molecular evolution of diffuse gliomas” *Neuro Oncology*, 2018 Feb 8. doi: 10.1093/neuonc/now020.
2. Ana C. deCarvalho, **Hoon Kim (co-first author)**, Laila M. Poison, Mary Winn, Claudius Mueller, David Cherba, Julie Koeman, Sahil Seth, Alexei Protopopov, Michelle Felicella, Siyuan Zheng, Jianhua Zhang, Emanuel F. Petricoin, Lynda Chin, Tom Mikkelsen, Roel G.W. Verhaak. “Discordant inheritance of chromosomal and extrachromosomal DNA elements contributes to dynamic disease evolution in glioblastoma.” *Nature Genetics*, 2018 Apr. 10.1038/s41588-018-0105-0
3. Javier Figueroa, Lynette Phillips, Tal Shahar, Anwar Hossain, Joy Gumin, **Hoon Kim**, Andrew Bean, George Calin, Juan Fueyo, Edgar Walters, Raghu Kalluri, Roel Verhaak, Frederick Lang. “Exosomes from Glioma-Associated Mesenchymal Stem Cells Increase the Tumorigenicity of Glioma Stem-like Cells via Transfer of Specific microRNA.” *Cancer Research*, 2017 Aug 30. doi: 10.1158/0008-5472.CAN-16-2524
4. Wang Q, Hu B, Hu X, **Kim H**, Nam DH, Verhaak RG. “Tumor evolution of glioma intrinsic gene expression subtype associates with immunological changes in the microenvironment.” *Cancer Cell*, 2017 Jul 10;32(1):42-56.
5. Hu X, Martinez-Ledesma E, Zheng S, **Kim H**, Barthel F, Jiang T, Hess KR, Verhaak RG. “Multigene signature for predicting prognosis of patients with 1p19q co-deletion diffuse glioma.” *Neuro Oncology*, 2017 Mar 8. doi: 10.1093/neuonc/now285.

6. Zheng S, Cherniack AD, Cancer Genome Atlas Research Network (**Kim H** included), Verhaak RG. “Comprehensive Pan-Genomic Characterization of Adrenocortical Carcinoma.” *Cancer Cell*, 2016 May 9;29(5):723-36.
7. Cancer Genome Atlas Research Network (**Kim H** included). “Comprehensive, Integrative Genomic Analysis of Diffuse Lower Grade Gliomas.” *New England Journal of Medicine*, 2015 Jun 25;372(26):2481-98.
8. **Kim H**, Verhaak RG. “Transcriptional mimicry by tumor-associated stroma.” *Nat Genet.*, 2015 Apr;47(4):307-9.
9. **Kim H**, Zheng S, Amini SS, Mikkelsen T, Meyerson M, Chin L, Barnholtz-Sloan JS, Verhaak RG. “Whole-genome and multisector exome sequencing of primary and post-treatment glioblastoma reveals patterns of tumor evolution.” *Genome Res.*, 2015 Mar;25(3):316-27.
10. Yoshihara K, Wang Q, Torres-Garcia W, Zheng S, Vegesna R, **Kim H**, Verhaak RG. “The landscape and therapeutic relevance of cancer-associated transcript fusions.” *Oncogene*, 2014 Dec 15.
11. Cancer Genome Atlas Research Network (**Kim H** included). “Multiplatform analysis of 12 cancer types reveals molecular classification within and across tissues of origin.” *Cell*, 2014 Aug 14;158(4):929-44.
12. Martnez E, Yoshihara K, **Kim H**, Mills GM, Trevio V, Verhaak RG. “Comparison of gene expression patterns across 12 tumor types identifies a cancer supercluster characterized by TP53 mutations and cell cycle defects.” *Oncogene*, 2014 Aug 4.
13. Zheng S, **Kim H**, Verhaak RG. “Silent mutations make some noise.” *Cell*, 2014 Mar 13;156(6):1129-31.
14. Cancer Genome Atlas Research Network (**Kim H** included). “The Cancer Genome Atlas Pan-Cancer analysis project.” *Nat Genet.*, 2013 Oct;45(10):1113-20.
15. Cancer Genome Atlas Research Network (**Kim H** included). “Comprehensive molecular characterization of clear cell renal cell carcinoma.” *Nature*, 2013 Jul 4;499(7456):43-9.
16. Yoshihara K, Shahmoradgoli M, Martnez E, Vegesna R, **Kim H**, Verhaak RG. “Inferring tumour purity and stromal and immune cell admixture from expression data.” *Nat Commun.*, 2013;4:2612.
17. **Kim H**, Watkinson J, Anastassiou D. “Biomarker discovery using statistically significant gene sets.” *J Comput Biol.*, 2011 Oct;18(10):1329-38.
18. **Kim H**, Watkinson J, Varadan V, Anastassiou D. “Multi-cancer computational analysis reveals invasion-associated variant of desmoplastic reaction involving INHBA, THBS2 and COL11A1.” *BMC Med Genomics*, 2010 Nov 3;3:51.

AWARDS	<ul style="list-style-type: none"> <li>• <b>Caroline Ross Endowed Fellowship Award</b> 2015 The University of Texas MD Anderson Cancer Center</li> <li>• <b>Odyssey Fellowship Award</b> 2012-2014 Theodore N. Law Endowment for Scientific Achievement</li> </ul>
INVITED ORAL PRESENTATIONS	<ul style="list-style-type: none"> <li>• “Whole-genome and Multisector Exome Sequencing of Primary and Post-treatment Glioblastoma Reveal Patterns of Tumor Evolution.” <i>Training in Brain Tumor Research</i>, 2015, Houston, TX</li> <li>• “Alteration of the p53 pathway is associated with subclonal tumor progression in glioblastoma.” <i>2014 AACR Annual Meeting Minisymposium session</i>, 2014, San Diego, CA</li> <li>• “The Intratumoral Heterogeneity of Glioblastoma Suggests a Pivotal Role for Clonal Evolution.” <i>Advances in Genome Biology and Technology</i>, 2014, Marco Island, FL</li> </ul>
POSITIONS	<p><b>Senior Research Scientist</b> 2017 - Present Genomic Medicine The Jackson Laboratory, Farmington, CT</p> <p><b>Instructor</b> 2015 - 2016 Department of Genomic Medicine MD Anderson Cancer Center, Houston, TX</p> <p><b>Postdoc Fellow</b> 2011 - 2015 Department of Bioinformatics and Computational Biology MD Anderson Cancer Center, Houston, TX Supervisors: Dr. Roel R.G. Verhaak</p> <p><b>Research Assistant</b> 2006 - 2010 Genomic Information Systems Laboratory Columbia University, New York, NY Supervisors: Dr. Dimitris Anastassiou</p> <p><b>Research Intern</b> 2009 Biomedical Informatics Dept. Philips Research North America, NY</p> <p><b>Teaching Assistant</b> 2006 Columbia University, New York, NY</p> <p><b>System Engineer</b> 2000 - 2002 Universal Mobile Telecommunication Systems LG Electronics Inc., South Korea</p>
MEMBERSHIPS	<p><b>Society for Neuro-Oncology</b> 2014 - Present <a href="https://www.soc-neuro-onc.org">https://www.soc-neuro-onc.org</a></p>

**Glioma Longitudinal Analysis Consortium**  
Data Infrastructure and Processing Committee  
<http://glass-consortium.org/>

2015 - Present

PATENT

- “Biomarkers based on a multi-cancer invasion-associated mechanism.”, *Publication number: WO2011130435 A1*

PROFESSIONAL **Ph.D. Dissertation Committee**  
SERVICE

- Emmanuel Martinez, Ph.D. 2015  
Tecnologico de Monterrey, Mexico  
Thesis Advisor: Dr. Victor M. Trevio Alvarado  
Dissertation Title: “Identification of features related to cancer stages, survival, and subtypes from diverse genomics data”

**Graduate Mentor**

- Olajide Abiola 2017 - Present  
Graduate student, University of Connecticut School of Medicine, Farmington, CT
- Emmanuel Martinez 2012  
Research Intern, MD Anderson Cancer Center, Houston, TX
- Seyed Saman Amini 2012 - 2013  
Research Intern, MD Anderson Cancer Center, Houston, TX

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