

Samir B. Amin, MBBS, Ph.D.

CONTACT INFORMATION	The Jackson Laboratory for Genomic Medicine 10 Discovery Drive #4105.08 Farmington, CT 06032 USA	 860-837-2022  samir.amin@jax.org  sbamin  www.sbamin.com
RESEARCH STATEMENT	Working in the comparative oncology field to study spontaneous development of glioma in <i>Canis familiaris</i> or dogs with emphasis on characterizing & compare cancer genome & transcriptome to that in human glioma.	
EDUCATION	Baylor College of Medicine , Houston, TX, USA Ph.D. – <i>Long non-coding RNA interactions in cancer</i> 08/2011 – 01/2017 Structural & Computational Biology & Molecular Biophysics (SCBMB) Graduate Program Medical College & M S University of Baroda , Vadodara, Gujarat India Bachelor of Medicine, Bachelor of Surgery 11/1998 - 03/2005 Accredited by The Educational Commission for Foreign Medical Graduates (ECFMG®), Philadelphia, PA USA on 08/2006.	
PROFESSIONAL EXPERIENCE	Postdoctoral fellow 01/2017 – Present Laboratory of Dr. Roel Verhaak, Ph.D. Computational Cancer Biology The Jackson Laboratory for Genomic Medicine, Farmington, CT, USA Doctoral candidate 07/2015 – 09/2016 Laboratory of Dr. Roel Verhaak, Ph.D. Department of Genomic Medicine The University of Texas MD Anderson Cancer Center, Houston, TX USA Graduate Student 01/2012 - 06/2015 Laboratory of Dr. Lynda Chin, MD Department of Genomic Medicine The University of Texas MD Anderson Cancer Center, Houston, TX USA Research Fellow 01/2008 - 06/2011 Department of Medical Oncology – Multiple Myeloma Program Dana-Farber Cancer Institute, Boston, MA USA Advisor: Dr. Nikhil C. Munshi, MD Adjunct Research Fellow 01/2008 - 06/2011 Department of Biostatistics & Computational Biology Dana-Farber Cancer Institute, Boston, MA USA Advisor: Dr. Cheng Li, PhD	

Resident Physician

12/2005 - 11/2007

Bhailal Amin General Hospital, Vadodara, Gujarat, India

Primary rotations: Medical Oncology, ICU, ER services

AWARDS

Prof. John J. Trentin Award for Scholastic Excellence

2012

Baylor College of Medicine

PEER REVIEWED
PUBLICATIONS

Hu X, Wang Q, Tang M, Barthel F, **Amin S**, Yoshihara K, ..., Zheng S, Verhaak RG. TumorFusions: an integrative resource for cancer-associated transcript fusions. *Nucleic Acids Res.* 2017 AOP. DOI: 10.1093/nar/gkx1018

Amin SB, Verhaak RGW. Navigating the Cancer Transcriptome by Decoding Divergent Oncogenic States. *Cell systems.* 2017, 5(2):90-92. PMID: 28837814

Fiziev, P., Akdemir KC, Miller JP, Keung EZ, Samant NS, Sharma S, Natale CA, Terranova CJ, Maitituoheti M, **Amin SB**, Martinez-Ledesma E, Dhamdhare M, ..., Amit I, Chin L, Ernst J, Rai K. Systematic Epigenomic Analysis Reveals Chromatin States Associated with Melanoma Progression. *Cell Rep.* 2017, 19(4): 875-889. PMID: 28445736

Genovese G, Carugo A, Tepper J, Robinson FS, Li L, Svelto M, Nezi L, Corti D, Minelli R, Pettazzoni P, Gutschner T, Wu CC, Seth S, Akdemir KC, Leo E, **Amin SB**, Molin MD, Ying H, ..., Maitra A, Roberts CW, Wang H, Viale A, DePinho RA, Draetta GF, Chin L. Synthetic vulnerabilities of mesenchymal subpopulations in pancreatic cancer. *Nature.* 2017 AOP (Feb 8). PMID: 28178232

Barthel FP, Wei W, Tang M, Martinez-Ledesma E, Hu X, **Amin SB**, Akdemir KC, Seth S, Song X, Wang Q, Lichtenberg T, Hu J, Zhang J, Zheng S, Verhaak RG. Systematic analysis of telomere length and somatic alterations in 31 cancer types. *Nat Genet.* 2017 AOP (Jan 30). PMID: 28135248

Xue J, Zhou A, Wu Y, Morris SA, Lin K, **Amin SB**, Verhaak R, ..., Huang S. STAT3 activation promotes glioma tumorigenesis by inducing miR-182-5p. *Cancer Res.* 2016 AOP (May 31). PMID: 27246830

Deribe YL, Shi Y, Rai K, **Amin SB**, Wu C, ..., Garraway L, Chin LY. Truncating PREX2 mutations activate its GEF activity and alter gene expression regulation in NRAS-mutant melanoma. *Proc Natl Acad Sci U S A.* 2016 AOP (Feb 16). PMID: 26884185

Rondinelli B, Rosano D, Antonini E, Frenquelli M, Montanini L, Huang D, Segalla S, Yoshihara K, **Amin SB**, Lazarevic D, The BT, Verhaak RG, Futreal PA, Di Croce L, Chin L, Cittaro D, Tonon G. Histone demethylase JARID1C inactivation triggers genomic instability in sporadic renal cancer. *J Clin Invest.* 2015, 125(12):4625. PMID:26551685

Amin SB, Yip YK, Minvielle S, Avet-Loiseau H, Munshi NC et al. Gene expression profile alone is inadequate in predicting complete response in multiple myeloma. *Leukemia* 2014 AOP (Apr 15). PMID: 24732597

Wang X, Yan Z, Fulciniti M, Li Y, Gkatzamanidou M, **Amin SB**, Li C et al. Transcription factor-pathway coexpression analysis reveals cooperation between SP1 and ESR1 on dysregulating cell cycle arrest in non-hyperdiploid multiple myeloma. *Leukemia* 2014,28(4):894-903. PMID: 23925045

Tian Z, Zhao JJ, Tai YT, **Amin SB**, Chauhan D, Anderson KC et al. Investigational agent MLN9708/2238 targets tumor suppressor microRNA-33b in MM cells. *Blood* 2012 AOP (Sept 14). PMID: 22983447

Yan Z, Shah PK, **Amin SB**, Li C, et al. Transcription factor-miRNA feed-forward loops account for a large proportion of transcriptome changes and identify regulators in human cancers. *Nucleic Acids Res.* 2012 AOP (May 29). PMID: 22645320

Fulciniti M, **Amin SB**, Hideshima T, Anderson KC, Munshi NC, et al. Significant biological role of Sp1 transactivation in multiple myeloma. *Clin Cancer Res* 2011,17(20):6500. PMID: 21856768

Amin SB, Shah PK, Munshi NC, Li C, et al. The dChip survival analysis module for microarray data. *BMC Bioinformatics* 2011, 12(1):72. PMCID: PMC3068974

Prabhala RH, Pelluru D, Fulciniti M, **Amin SB**, Tai YT, Richardson PG, Treon SP, Anderson KC, Munshi NC, et al. Elevated IL-17 produced by TH17 cells promotes myeloma cell growth and inhibits immune function in multiple myeloma. *Blood* 2010, 115(26):5385. PMCID: PMC2902136

Blotta S, Tassone P, Prabhala RH, Tagliaferri P, Cervi D, **Amin SB**, Tai YT, Mitsiades CS, Franco B, Anderson KC, Munshi NC, et al. Identification of novel antigens with induced immune response in monoclonal gammopathy of undetermined significance. *Blood* 2009, 114(15):3276. PMCID: PMC2759650

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 <https://scholar.google.com/citations?user=XpkinzcAAAAJ&hl=en>

PEER REVIEWED Yip WK, **Amin SB**, Li C. A Survey of Classification Techniques for Microarray Analysis in *Handbook of Statistical Bioinformatics*. 1st edition. Springer BOOK CHAPTER Science, New York, NY USA. 627 pg; May 2011. ISBN: 978-3-642-16344-9

Li C, **Amin S**. Analysis of Cancer Genome Alterations Using Single Nucleotide Polymorphism (SNP) Microarrays in *New developments in biostatistics and bioinformatics*. 1st edition. World Scientific Publishing Co., Singapore. 300 pg; April 2009. ISBN:981-283-743-4

INVITED & PEER
REVIEWED
CONFERENCE
PUBLICATIONS

Amin SB, Martinez-Ledesma E, Boudreau B, Kim H, Johnson K, Heimberger A, Levine J, Verhaak RG. Genomic profiling of canine glioma: Comparative analyses with respect to drivers of human glioma. *2nd Biannual Symposium of Comparative Brain Tumor Consortium*, National Institutes of Health, Bethesda, MD. Sept 18, 2017. **Oral Presentation.** URL: <https://ccr.cancer.gov/comparative-oncology-program/research/cbtc>, Meeting Agenda

Amin SB, Chang-Jiun W, Akdemir K, Rai K, Futreal A, Chin L. Profiling long intergenic non-coding RNA interactions in the cancer genome. *3rd Annual Scientific Symposium, The Cancer Genome Atlas Project*, National Institutes of Health, Bethesda, MD. May 13, 2014. **Oral Presentation.** URL: <http://www.youtube.com/watch?v=ACAAMZ4RUwg>

Amin SB, Minvielle S, Hanlon B, Shah PK, Li C, Yi Li, Anderson KC, Avet-Loiseau H, Munshi NC. Gene Expression Profile Alone Is Inadequate In Predicting Complete Responses In Multiple Myeloma. *52nd Annual Meeting, American Society of Hematology*, Orlando, FL. December 6, 2010. **Oral Presentation.**

Amin SB, Yan Z[§], Shah PK, San Miguel JF, Minvielle S, Avet-Loiseau H, Anderson KC, Munshi NC, Li C. An Integrative Analysis of Network Motifs and Gene Expression Data to Discover Experimentally Testable Transcription Factor-miRNA-Gene Regulatory Loops In Multiple Myeloma. *52nd Annual Meeting, American Society of Hematology*, Orlando, FL. December 4–7, 2010. Poster abstract. §: First Author.

PROFESSIONAL MEMBERSHIPS

Trainee membership in...

American Association for Cancer Research	2017-Present
American Society of Hematology	2009-2011

PROFESSIONAL ACTIVITIES

Grant Writing: Actively participated in contributing and writing several NIH grant proposals: **a)** PO1: *Integrative oncogenomics in multiple myeloma* by Munshi NC et al. Grant ID: 5P01CA155258-03, and **b)** *Specialized Programs of Research Excellence* (SPORE) grant by Anderson KC et al. Grant ID: 2P50CA100707-11A1.

Peer reviewer for *Bioinformatics*, *Nucleic Acid Research*, *PLOS ONE*, *PeerJ*, *Biomedicine & Pharmacotherapy*.

REFERENCES

Available upon request.

VERSION

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