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Title: Moores Professor,
Department of Biology & Biochemistry
Director, UH-Gen Sequencing & Gene Editing Core
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Citizenship: USA

Education: 1987 Ph.D. in Genetics & Development, Cornell University, Ithaca, New York
Thesis Advisor: Michael Goldberg.
Thesis: 'Transcriptional analysis of the *Zeste* locus in *Drosophila melanogaster*'.
1999 Board Certification in Clinical Molecular Genetics
Board Certification in Medical Genetics, American College of Medical Genetics.
1982 B.Sc. *magna cum laude* in Zoology (Honors) Chemistry (Minor)
University of Colombo, Sri Lanka

Awards & Gifts:

2019 Moores Professorship
2014/2012 McNair Foundation Award
2011 Virginia & L. E. Simmons Family Foundation Award
(Joint Award with Jason Shohet and Xiabo Zhou)
2011 Cullen Foundation Award
2010 Baylor Partnership Fund Raising Featured Beneficiary Award
(Joint Award with Matthew Anderson and Martin Matzuk)
1989 Leukemia Research Foundation Fellowship Award
1988 Northwestern Memorial Galter Fellowship Award
1986 Amoco Research Award, Chicago
1982 Graduate Fellowship, Cornell University
1981 Best Graduating Senior in Zoology, University of Colombo

Positions:

2019 Moores Professor, Biology & Biochemistry, University of Houston
2018 Professor, Biology & Biochemistry, University of Houston
2015-Present Director, UH-Sequencing & Gene Editing Core
2012-2017 Associate Professor, Biology & Biochemistry, University of Houston
2005-2012 Assistant Professor (Tenure-track), Biology & Biochemistry, University of Houston
2002-2004 Assistant Professor (Non-Tenure track), Department of Pathology, Human Genome sequencing Center, Baylor College of Medicine, Houston, TX
2001-2004 Director, cDNA Sequencing
Human Genome Sequencing Center (HGSC), Baylor College of Medicine
1999-2000 Research Associate, HGSC, Baylor College of Medicine
1998-1999 Assistant Director Baylor DNA Diagnostic Laboratory, Baylor College of Medicine, Houston
1996-1998 Clinical Molecular Genetics Fellow

1991-1995	Department of Molecular & Human Genetics, Baylor College of Medicine Postdoctoral Research Associate
1987-1990	Institute for Molecular Genetics, Baylor College of Medicine Postdoctoral Fellow, Section of Hematology & Oncology Northwestern University, Medical School, Chicago, IL
1984-1986	Graduate Research Assistant, Cornell University, Ithaca, NY
1982-1984	Teaching Assistant, Cornell University, Ithaca, NY

A. SCHOLARSHIP

A.1. Original Articles

1. MicroRNA–mRNA networks are dysregulated in opioid use disorder postmortem brain: Further evidence for opioid-induced neurovascular alterations. Sandra L. Grimm, Emily F. Mendez, Laura Stertz, Thomas D. Meyer, Gabriel R. Fries, Tanmay Gandhi, Rupa Kanchi, Sudhakar Selvaraj, Antonio L. Teixeira, Thomas R. Kosten, Preethi Gunaratne, Cristian Coarfa and Consuelo Walss-Bass. *Front. Psychiatry*, 12 January 2023. Sec. Molecular Psychiatry. Volume 13. doi.org/10.3389/fpsy.2022.1025346
2. Nicole Prodan, Faheem Ershad, Arfaxad Reyes-Alcaraz, Luge Li, Brandon Mistretta, Lei Gonzalez, Zhoulyu Rao, Cunjiang Yu, **Preethi H. Gunaratne**, Na Li, Robert J. Schwartz, Bradley K. McConnell. Direct reprogramming of cardiomyocytes into cardiac Purkinje-like cells *iScience*. 2022 Nov 18; 25(11): 105402. Published online 2022 Oct 20. doi: 10.1016/j.isci.2022.105402. PMID: PMC9646947
3. Jose Thaiparambil, Jianrong Dong, Sandra L. Grimm, Dimuthu Perera, Chandra Shekar R. Ambati, Vasanta Putluri, Matthew J. Robertson, Tajhal D. Patel, Brandon Mistretta, **Preethi H. Gunaratne**, Min P. Kim, Jason T. Yustein, Nagireddy Putluri, Cristian Coarfa, Randa El-Zein. Integrative metabolomics and transcriptomics analysis reveals novel therapeutic vulnerabilities in lung cancer. *Cancer Med*. 2022 Jun 8
4. Sarah E. Woodfield, Brandon J. Mistretta, Roma H. Patel, Aryana M. Ibarra, Kevin E. Fisher, Stephen F. Sarabia, Ilavarasi Gandhi, Jacquelyn Reuther, Zbigniew Starosolski, Andrew Badachhpe, Jessica Epps, Barry Zorman, Aayushi P. Shah, Samuel R. Larson, Rohit K. Srivastava, Yan Shi, Andres F. Espinoza, Saiabhiroop R. Govindu, Richard S. Whitlock, Kimberly Holloway, Angshumoy Roy, Pavel Sumazin, Ketan B. Ghaghada, Dolores Lopez-Terrada, **Preethi H. Gunaratne**, and Sanjeev A. Vasudevan. HepT1-derived murine models of high-risk hepatoblastoma display vascular invasion, metastasis, and circulating tumor cells. *Open Biol*. March 2022 [In Press].
5. Yajuan Li, Zhi Tan, Yaohua Zhang, Zhao Zhang, Qingsong Hu, Ke Liang, Jun Yao, Youqiong Ye, Yi-Chuan Li, Chunlai Li, Lan Liao, Jianming Xu, Zhen Xing, Yinghong Pan, Sujash S. Chatterjee, Tina K. Nguyen, Heidi Hsiao, Sergey D. Egranov, Nagireddy Putluri, Cristian Coarfa, David H. Hawke, **Preethi H. Gunaratne**, Kuang-Lei Tsai, Leng Han, Mien-Chie Hung, George A. Calin, Fares Namour, Jean-Louis Guéant, Ania C. Muntau, Nenad Blau, V. Reid Sutton, Manuel Schiff, François Feillet, Shuxing Zhang, Chunru Lin, Liuqing Yang. A noncoding RNA modulator potentiates phenylalanine metabolism in mice *Science*. 2021 Aug 6; 373(6555): 662–673. PMID: PMC9714245
6. Yajuan Li, Yaohua Zhang, Qingsong Hu, Sergey D. Egranov, Zhen Xing, Zhao Zhang, Ke Liang, Youqiong Ye, Yinghong Pan, Sujash S. Chatterjee, Brandon Mistretta, Tina K. Nguyen, David H. Hawke, **Preethi H. Gunaratne**, Mien-Chie Hung, Leng Han, Liuqing Yang, Chunru Lin. *Genome Med*. 2021; 13: 137. Published online 2021 Aug 28. doi: 10.1186/s13073-021-00937-4. Functional significance of gain-of-function H19 lncRNA in skeletal muscle differentiation and anti-obesity effects. PMID: PMC8403366
7. Divya Ravirala, Brandon Mistretta, Preethi H. Gunaratne, Guangsheng Pei, Zhongming Zhao, Xiaoliu Zhang. Co-delivery of novel bispecific and trispecific engagers by an amplicon vector augments the

- therapeutic effect of an HSV-based oncolytic virotherapy. *J Immunother Cancer*. 2021; 9(7): e002454. Published online 2021 Jul 6. doi: 10.1136/jitc-2021-002454. PMID: PMC8261877
8. Stewart Fannin, Jonathan Rangel, Abiodun P. Bodurin, Tannon Yu, Brandon Mistretta, Sujina Mali, **Preethi Gunaratne**, Steven J. Bark, Jerry O. Ebalunode, Arshad Khan, William R. Widger, Mehmet Sen. Functional and structural characterization of Hyp730, a highly conserved and dormancy-specific hypothetical membrane protein. *Microbiologyopen*. 2021 Jan; 10(1): e1154. Published online 2021 Feb 3. doi: 10.1002/mbo3.1154. PMID: PMC7856521
 9. Marco Napoli, Xiaobo Li, Hayley D. Ackerman, Avani A. Deshpande, Ivan Barannikov, Marlese A. Pisegna, Isabelle Bedrosian, Jürgen Mitsch, Philip Quinlan, Alastair Thompson, Kimal Rajapakshe, Cristian Coarfa, **Preethi H. Gunaratne**, Douglas C. Marchion, Anthony M. Magliocco, Kenneth Y. Tsai, Elsa R. Flores. Pan-cancer analysis reveals TAp63-regulated oncogenic lncRNAs that promote cancer progression through AKT activation. *Nat Commun*. 2020; 11: 5156. Published online 2020 Oct 14. doi: 10.1038/s41467-020-18973-w. PMID: PMC7561725
 10. Smith SL, Kennedy PR, Stacey KB, Worboys JD, Yarwood A, Seo S, Solloa EH, Mistretta B, Chatterjee SS, **Gunaratne P**, Allette K, Wang YC, Smith ML, Sebra R, Mace EM, Horowitz A, Thomson W, Martin P, Eyre S, Davis DM. Diversity of peripheral blood human NK cells identified by single-cell RNA sequencing. *Blood Adv*. 2020 Apr 14;4(7):1388-1406. doi: 10.1182/bloodadvances.2019000699. PMID: 32271902
 11. Kalhara R. Menikdiwela, Latha Ramalingam, Mostafa M. Abbas, Halima Bensmail, Shane Scoggin, Nishan S. Kalupahana, Asha Palat, **Preethi Gunaratne**, Naima Moustaid-Moussa. Role of microRNA 690 in Mediating Angiotensin II Effects on Inflammation and Endoplasmic Reticulum Stress. *Cells*. 2020 Jun; 9(6): 1327. Published online 2020 May 26. doi: 10.3390/cells9061327. PMID: PMC7348980
 12. Zhenlin Ju, Anjana Bhardwaj, Matthew D. Embury, Harpreet Singh, **Preethi H. Gunaratne**, Isabelle Bedrosian, Jing Wang. Integrative Analyses of Multilevel Omics Reveal Preneoplastic Breast to Possess a Molecular Landscape That is Globally Shared with Invasive Basal-Like Breast Cancer (Running Title: Molecular Landscape of Basal-Like Breast Cancer Progression) *Cancers (Basel)* 2020 Mar; 12(3): 722. Published online 2020 Mar 19. doi: 10.3390/cancers12030722. PMID: PMC7140033
 13. Smith SL, Kennedy PR, Stacey KB, Worboys JD, Yarwood A, Seo S, Solloa EH, Mistretta B, Chatterjee SS, **Gunaratne P**, Allette K, Wang YC, Smith ML, Sebra R, Mace EM, Horowitz A, Thomson W, Martin P, Eyre S, Davis DM. Diversity of peripheral blood human NK cells identified by single-cell RNA sequencing. *Blood Adv*. 2020 Apr 14;4(7):1388-1406. doi: 10.1182/bloodadvances.2019000699. PMID: 32271902
 14. Green DG, Whitener AE, Mohanty S, Mistretta B, **Gunaratne P**, Yeh AT, Lekven AC. Wnt signaling regulates neural plate patterning in distinct temporal phases with dynamic transcriptional outputs. *Dev Biol*. 2020 Mar 31. pii: S0012-1606(20)30104-4. doi: 10.1016/j.ydbio.2020.03.016. PMID: 32243887
 15. Integrative Analyses of Multilevel Omics Reveal Preneoplastic Breast to Possess a Molecular Landscape That is Globally Shared with Invasive Basal-Like Breast Cancer (Running Title: Molecular Landscape of Basal-Like Breast Cancer Progression). Ju Z, Bhardwaj A, Embury MD, Singh H, **Gunaratne PH**, Bedrosian I, Wang J. *Cancers (Basel)*. 2020 Mar 19;12(3). pii: E722. doi: 10.3390/cancers12030722. PMID: 32204397
 16. Andrew J. Davis, Maksym Tsinkevich, Jason Rodencal, Hussein A. Abbas, Xiao-hua Su, Young-Jin Gi, Bin Fang, Kimal Rajapakshe, Cristian Coarfa, **Preethi H. Gunaratne**, John M. Koomen, Kenneth Y. Tsai, Elsa R. Flores. TAp63-regulated microRNAs suppress cutaneous squamous cell carcinoma through inhibition of a network of cell cycle genes. *Cancer Res*. 2020 Jun 15; 80(12): 2484–2497. PMID: PMC7299759

17. Raghunathan S, Islas JF, Mistretta B, Iyer D, Shi L, **Gunaratne PH**, Ko G, Schwartz RJ, McConnell BK. Conversion of human cardiac progenitor cells into cardiac pacemaker-like cells. *J Mol Cell Cardiol.* 2020 Jan;138:12-22. doi: 10.1016/j.yjmcc.2019.09.015. Epub 2019 Oct 31. PMID: 31678351
18. Patil SL, Palat A, Pan Y, Rajapakshe K, Mirchandani R, Bondesson M, Yustein JT, Coarfa C, **Gunaratne PH**.* MicroRNA-509-3p inhibits cellular migration, invasion, and proliferation, and sensitizes osteosarcoma to cisplatin. *Sci Rep.* 2019 Dec 13;9(1):19089. doi: 10.1038/s41598-019-55170-2. PMID: 31836741. Corresponding Author*
19. Havis S, Bodunrin A, Rangel J, Zimmerer R, Murphy J, Storey JD, Duong TD, Mistretta B, Gunaratne P, Widger WR, Bark SJ. A Universal Stress Protein that Controls Bacterial Stress Survival in *Micrococcus luteus*. *J Bacteriol.* 2019 Sep 23. pii: JB.00497-19. doi: 10.1128/JB.00497-19. PMID: 31548273
20. Hu Q, Ye Y, Chan LC, Li Y, Liang K, Lin A, Egranov SD, Zhang Y, Xia W, Gong J, Pan Y, Chatterjee SS, Yao J, Evans KW, Nguyen TK, Park PK, Liu J, Coarfa C, Donepudi SR, Putluri V, Putluri N, Sreekumar A, Ambati CR, Hawke DH, Marks JR, **Gunaratne PH**, Caudle AS, Sahin AA, Hortobagyi GN, Meric-Bernstam F, Chen L, Yu D, Hung MC, Curran MA, Han L, Lin C, Yang L. Oncogenic lncRNA downregulates cancer cell antigen presentation and intrinsic tumor suppression. *Nat Immunol.* 2019 Jun 3. doi: 10.1038/s41590-019-0400-7. PMID:31160797
21. Maria Moreno-Villanueva, Ye Zhang, Alan Feiveson, Brandon Mistretta, Yinghong Pan, Sujash Chatterjee, Winston Wu, Ryan Clanton, Mayra, Nelman-Gonzalez, Stephanie Krieger, **Preethi Gunaratne**, Brian Crucian, Honglu Wu. Single-cell RNA-sequencing identifies activation of TP53 and STAT1 pathways in human T lymphocyte subpopulations in response to ex vivo radiation exposure. *Int. J. Mol. Sci.* 2019, ijms-487137
22. **Gunaratne PH***, Pan Y, Rao AK, Lin C, Hernandez-Herrera A, Liang K, Rait AS, Venkatanarayan A, Benham AL, Rubab F, Kim SS, Rajapakshe K, Chan CK, Mangala LS, Lopez-Berestein G, Sood AK, Rowat AC, Coarfa C, Pirolo KF, Flores ER, Chang EH*. Activating p53 family member TAp63: A novel therapeutic strategy for targeting p53-altered tumors. *Cancer.* 2019 Apr 23. doi: 10.1002/cncr.32053. PMID: 31012964. Corresponding Authors*
23. Chen C, Meng Q, Xia Y, Ding C, Wang L, Dai R, Cheng L, **Gunaratne P**, Gibbs RA, Min S, Coarfa C, Reid JG, Zhang C, Jiao C, Jiang Y, Giase G, Thomas A, Fitzgerald D, Brunetti T, Shieh A, Xia C, Wang Y, Wang Y, Badner JA, Gershon ES, White KP, Liu C. The transcription factor POU3F2 regulates a gene coexpression network in brain tissue from patients with psychiatric disorders. *Sci Transl Med.* 2018 Dec 13. pii: eaat8178. doi: 10.1126/scitranslmed.aat8178. PMID:30545964
24. Korkut A, Zaidi S, Kanchi RS, Rao S, Gough NR, Schultz A, Li X, Lorenzi PL, Berger AC, Robertson G, Kwong LN, Datto M, Roszik J, Ling S, Ravikumar V, Manyam G, Rao A, Shelley S, Liu Y, Ju Z, Hansel D, de Velasco G, Pennathur A, Andersen JB, O'Rourke CJ, Ohshiro K, Jogunoori W, Nguyen BN, Li S, Osmanbeyoglu HU, Ajani JA, Mani SA, Houseman A, Wiznerowicz M, Chen J, Gu S, Ma W, Zhang J, Tong P, Cherniack AD, Deng C, Resar L, **The Cancer Genome Atlas Research Network**, Weinstein JN, Mishra L, Akbani R. A Pan-Cancer Analysis Reveals High-Frequency Genetic Alterations in Mediators of Signaling by the TGF- β Superfamily. *Cell Syst.* 2018 Sep 14. pii: S2405-4712(18)30357-0. PMID: 30268436
25. Hoang J, Park CS, Lee HJ, Marquez MD, Zenasni O, **Gunaratne PH**, Lee TR. Quaternary Ammonium-Terminated Films Formed from Mixed Bidentate Adsorbates Provide a High-Capacity Platform for Oligonucleotide Delivery. *ACS Appl Mater Interfaces.* 2018 Oct 18. PMID: 30335936
26. Pahlavani M, Wijayatunga NN, Kalupahana NS, Ramalingam L, **Gunaratne PH**, Coarfa C, Rajapakshe K, Kottapalli P, Moustaid-Moussa N. Transcriptomic and MicroRNA analyses of gene networks regulated by eicosapentaenoic acid in brown adipose tissue of diet-induced obese mice. *Biochim Biophys Acta Mol Cell Biol Lipids.* 2018 Sep 24. pii: S1388-1981(18)30284-1. PMID: 30261280

27. Chen L, Youssef Y, Robinson C, Ernst GF, Carson MY, Young KA, Scoville SD, Zhang X, Harris R, Sekhri P, Mansour AG, Chan WK, Nalin AP, Mao HC, Hughes T, Mace EM, Pan Y, Rustagi N, Chatterjee SS, **Gunaratne PH**, Behbehani GK, Mundy-Bosse BL, Caligiuri MA, Freud AG. CD56 Expression Marks Human Group 2 Innate Lymphoid Cell Divergence from a Shared NK Cell and Group 3 Innate Lymphoid Cell Developmental Pathway. *Immunity*. 2018 Sep 18;49(3):464-476.e4. PMID: 30193847
28. Berger AC, Korkut A, Kanchi RS, Hegde AM, Lenoir W, Liu W, Liu Y, Fan H, Shen H, Ravikumar V, Rao A, Schultz A, Li X, Sumazin P, Williams C, Mestdagh P, **Gunaratne PH**, Yau C, Bowlby R, Robertson AG, Tiezzi DG, Wang C, Cherniack AD, Godwin AK, Kuderer NM, Rader JS, Zuna RE, Sood AK, Lazar AJ, Ojesina AI, Adebamowo C, Adebamowo SN, Baggerly KA, Chen TW, Chiu HS, Lefever S, Liu L, MacKenzie K, Orsulic S, Roszik J, Shelley CS, Song Q, Vellano CP, Wentzensen N; **Cancer Genome Atlas Research Network**, Weinstein JN, Mills GB, Levine DA, Akbani R. A Comprehensive Pan-Cancer Molecular Study of Gynecologic and Breast Cancers. *Cancer Cell*. 2018 Apr 1. pii: S1535-6108(18)30119-3. doi: 10.1016/j.ccell.2018.03.014. [Epub ahead of print] PMID: 29622464
29. Chiu HS, Somvanshi S, Patel E, Chen TW, Singh VP, Zorman B, Patil SL, Pan Y, Chatterjee SS; **Cancer Genome Atlas Research Network**, Sood AK, **Gunaratne PH**, Sumazin P. Pan-Cancer Analysis of lncRNA Regulation Supports Their Targeting of Cancer Genes in Each Tumor Context. *Cell Rep*. 2018 Apr 3;23(1):297-312.e12. doi: 10.1016/j.celrep.2018.03.064. PMID: 29617668
30. Campbell JD, Yau C, Bowlby R, Liu Y, Brennan K, Fan H, Taylor AM, Wang C, Walter V, Akbani R, Byers LA, Creighton CJ, Coarfa C, Shih J, Cherniack AD, Gevaert O, Prunello M, Shen H, Anur P, Chen J, Cheng H, Hayes DN, Bullman S, Peadarallu CS, Ojesina AI, Sadeghi S, Mungall KL, Robertson AG, Benz C, Schultz A, Kanchi RS, Gay CM, Hegde A, Diao L, Wang J, Ma W, Sumazin P, Chiu HS, Chen TW, **Gunaratne P**, Donehower L, Rader JS, Zuna R, Al-Ahmadie H, Lazar AJ, Flores ER, Tsai KY, Zhou JH, Rustgi AK, Drill E, Shen R, Wong CK; **Cancer Genome Atlas Research Network**, Stuart JM, Laird PW, Hoadley KA, Weinstein JN, Peto M, Pickering CR, Chen Z, Van Waes C. Genomic, Pathway Network, and Immunologic Features Distinguishing Squamous Carcinomas. *Cell Rep*. 2018 Apr 3;23(1):194-212.e6. doi: 10.1016/j.celrep.2018.03.063. PMID: 29617660
31. Wijayatunga NN, Pahlavani M, Kalupahana NS, Kottapalli KR, **Gunaratne PH**, Coarfa C, Ramalingam L, Moustaid-Moussa N. An integrative transcriptomic approach to identify depot differences in genes and microRNAs in adipose tissues from high fat fed mice. *Oncotarget*. 2018 Jan 13;9(10):9246-9261. doi: 10.18632/oncotarget.24226. eCollection 2018 Feb 6. PMID:29507687
32. Abbas H, Bao Bui NH, Rajapakshe K, Wong J, **Gunaratne P**, Tsai KY, Coarfa C, Flores ER. Distinct TP63 isoform-driven transcriptional signatures predict tumor progression and clinical outcomes. *Cancer Res*. 2017 Nov 27. pii: canres.1803.2017. doi: 10.1158/0008-5472.CAN-17-1803. PMID:29180475
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34. Shakiba A, Patil SL, Zenasni O, Schmitt ME, **Gunaratne PH**, Lee TR. DNA Loading and Release Using Custom-Tailored Poly(l-lysine) Surfaces. *ACS Appl Mater Interfaces*. 2017 Jul 19;9(28):23370-23378. doi: 10.1021/acsami.7b05024. Epub 2017 Jul 10. PMID: 28636320
35. Bhardwaj A, Singh H, Rajapakshe K, Tachibana K, Ganesan N, Pan Y, **Gunaratne PH**, Coarfa C, Bedrosian I. Regulation of miRNA-29c and its downstream pathways in preneoplastic progression of triple-negative breast cancer. *Oncotarget*. 2017 Jan 30. doi: 10.18632/oncotarget.14902. PMID: 28160548
36. Su X, Napoli M, Abbas HA, Venkatanarayan A, Bui NH, Coarfa C, Gi YJ, Kittrell F, **Gunaratne PH**, Medina D, Rosen JM, Behbod F, Flores ER. TAp63 suppresses mammary tumorigenesis through regulation of the Hippo pathway. *Oncogene*. 2016 Nov 21. doi: 10.1038/onc.2016.388. PMID: 27869165

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38. Chitsazzadeh V, Coarfa C, Drummond JA, Nguyen T, Joseph A, Chilukuri S, Charpiot E, Adelman CH, Ching G, Nguyen TN, Nicholas C, Thomas VD, Migden M, MacFarlane D, Thompson E, Shen J, Takata Y, McNiece K, Polansky MA, Abbas HA, Rajapakshe K, Gower A, Spira A, Covington KR, Xiao W, **Gunaratne P**, Pickering C, Frederick M, Myers JN, Shen L, Yao H, Su X, Rapini RP, Wheeler DA, Hawk ET, Flores ER, Tsai KY. Cross-species identification of genomic drivers of squamous cell carcinoma development across preneoplastic intermediates. *Nat Commun.* 2016 Aug 30;7:12601. doi: 10.1038/ncomms12601. PMID: 27574101
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43. O'Brien R, Tran SL, Maritz M, Liu B, Kong CF, Purgato S, Yang C, Murray J, Russel AJ, Flemming CL, von Jonquieres G, Pickett HA, London WB, Haber M, **Gunaratne PH**, Norris MD, Perrini G, Fletcher JL, MacKenzie KL. MYC-driven neuroblastomas are addicted to a telomerase-independent function of dyskerin. *Cancer Res.* 2016 Apr 13. pii: canres.0879.2015. PMID: 27197171
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45. Saurabh Agarwal, Rajib Ghosh, Zaowen Chen, Anna Lakoma, **Preethi H. Gunaratne**, Eugene S. Kim, Jason M. Shohet. Transmembrane adaptor protein PAG1 is a novel tumor suppressor in neuroblastoma. *Oncotarget* 2016. Mar 16. doi: 10.18632/oncotarget.8116. PMID: 26993602
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A.2. The Cancer Genome Atlas Research Network Publications

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A.3. Invited Book Chapters and Review Articles

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A.4. Abstracts and Presentations

1. Anjana Bhardwaj, Zhenlin Ju, Constance T. Albarracin, Celestine Trinidad, Brandon Mistretta, Preethi Gunaratne, Jing Wang, Randa El Zein, Isabelle Bedrosian. Subtype-specific molecular signatures of field cancerization in patients with sporadic breast cancer. *AACR Annual Meeting*, Orlando, FL, 2023
2. Prisha Verma, Micah Castillo, Sakuni V. Rankothgedera, and Preethi H. Gunaratne. Framework to determine fusion junction of novel RNA fusions and their actionability for personalized therapy of lung cancer patients. *AACR Annual Meeting*, Orlando, FL, 2023
3. Isabelle Bedrosian, Zhenlin Ju, Anjana Bhardwaj, Brandon Mistretta, **Preethi Gunaratne**, Jing Wang, Randa El Zein. Identification of a subtype specific molecular field across the mammary gland of breast cancer patients. *AACR Annual Virtual meeting 2020*

4. Brandon Mistretta, Isabelle Bedrosian, Randa El-Zein, **Preethi Gunaratne**. Exploring peripheral blood T lymphocyte heterogeneity and its relationship to breast cancer progression. *Cell Symposia: Hallmarks of Cancer*, Seattle, November 17-19, 2019
5. Asha Palat and **Preethi Gunaratne**. Metabolic reprogramming of ovarian cancer cells to improve conditions favoring immune cell mediated cytotoxicity in the tumor microenvironment. *Cell Symposia: Hallmarks of Cancer*, Seattle, November 17-19, 2019
6. Asha Palat, Yinghong Pan, Ke Liang, Chunru Lin, **Preethi Gunaratne**. Metabolic reprogramming of ovarian cancer cells to improve conditions favoring immune cell mediated cytotoxicity in the tumor microenvironment. *Cell Symposia: Metabolites as Signaling Molecules*, Seattle, December 9-11, 2018.
7. **Preethi Gunaratne**, Pavel Sumazin, Cristian Coarfa, Pieter Mestagh, Steve Lefever, Cecilia Williams, Karen Mackenzie, Anil Sood. Regulatory networks involving long non-coding RNAs (LncRNAs) and estrogen receptor (ER) in pan-gynecologic tumors. *TCGA (The Cancer Genome Atlas) Legacy Meeting*, Washington DC, September 27-29, 2018.
8. Nadeeja N. Wijayatunga, Mandana Pahlavani, Rao Kottapalli, John A. Dawson, Latha Ramalingam, **Preethi H. Gunaratne**, Cristian Coarfa, Kimal Rajapakshe, Nishan S. Kalupahana and Naima Moustaid-Moussa. Adipose depot-specific differences in transcriptome and microRNA expression in high fat diet induced obese mice. *ASBMB-2106 Annual Meeting*, April 2 - 6, 2016, San Diego, CA
9. Mandana Pahlavani, Nadeeja N. Wijayatunga, Rao Kottapalli, Latha Ramalingam, **Preethi H. Gunaratne**, Cristian Coarfa, Kimal Rajapakshe, Nishan S. Kalupahana and Naima Moustaid-Moussa.
10. Transcriptomic and MicroRNA Analyses Identify Gene Networks Regulated by Eicosapentaenoic Acid in Brown Adipose Tissue from Diet-Induced Obese Mice. *ASBMB-2016 Annual Meeting*, April 2-6, 2016, San Diego, CA
11. Gordon Robertson, **Preethi Gunaratne**, Seth P. Lerner, Andrew Mungall, Denise Brooks, Reanne Bowlby, Payal Sipahimalani, Stvene J. Jones, Marco A. Marra, Katherine Hoadley, David Kwiatkowski, Jonathan Rosenberg, John N. Weinstein, The Cancer Genome Atlas (TCGA) Project analysis of microRNA and gene expression subtypes of high-grade muscle invasive urothelial carcinoma. *Society of Urologic Oncology (SUO) 16th Annual Meeting*, December 02 -04, 2015, Washington DC.
12. Y. Pan, A. Hernandez-Herrera, A. Benham, A. Venkatanarayan, C. Chan, A. Rowat, K. Rajapakshe, S. Duvvuri, C. Coarfa, E. Flores, **P. Gunaratne**. MiR-130b Sensitize Ovarian Cancer to Cisplatin and BH3-mimetics by Inducing TAp63 and Its Downstream Gene Bim. *CPRIT- 2015 Innovations Conference*, November 9th-10th, Austin TX
13. Clara K Chan, Yinghong Pan, Gordon Robertson, **Preethi Gunaratne**, Amy C Rowat. MicroRNAs Regulate Ovarian Cancer Mechanotype. American Society for Cell Biology (ASCB) Annual Meeting, December 12-16, San Diego, CA.
14. M. Napoli, A. Venkatanarayan, P. Raulji, W. Norton, L. Mangala, A. Sood, C. Rodriguez-Aguayo, G. Lopez-Berestein, K. Tsai, H. Abbass, C. Coarfa, **P. Gunaratne**, E. Flores. Pharmacologic Inhibition of the Δ Np63/DGCR8 Axis as a Novel Therapeutic Strategy for p53 Deficient and Mutant Tumors. *AACR 106th Annual Meeting* 2015; April 18-22, 2015; Philadelphia, PA
15. S. Patil, P. Gunaratne, J. Yustein. MiR-509-3p Inhibits Osteosarcoma Migratory Properties And Enhances Sensitivity To Cisplatin. *CPRIT- 2015 Innovations Conference*, November 9th-10th, Austin TX
16. Gordon Robertson, **Preethi Gunaratne**, Seth Lerner, Andrew Mungall, Denise Brooks, Reanne Bowlby¹, Payal Sipahimalani, Steven Jones, Marco Marra, Katherine Hoadley, David Kwiatkowski and John Weinstein. The Cancer Genome Atlas (TCGA) project analysis of microRNA and gene expression subtypes of high-grade muscle invasive urothelial carcinoma. *Society for Urologic Oncology, Annual Meeting*, December 2-4, 2015 in Washington, DC
17. Cristian Coarfa, **Preethi Gunaratne** and Shannon M Hawkins. Gene Signature of PTENmutantDICER+/-Endometrial Cancer Predicts Worse Survival. Society for *Reproductive*

- Investigation (SRI), 62nd Annual Scientific Meeting.* March 25th - 28th, 2015, San Francisco, CA. *(Selected for Oral Presentation).
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 19. Sagar Patil, Jason Yustein and **Preethi Gunaratne**. Investigating the role of miR-509-3p in inhibiting migration and in sensitizing cisplatin drug effect on osteosarcoma cells. *12th Annual Dan L. Duncan Cancer Center Symposium.* Houston, TX. January 26, 2015.
 20. Yinghong Pan, Anadulce Hernandez-Herrera, Clara Chan, Amy Rowat, and **Preethi H. Gunaratne**. miR-130b Regulates Ovarian Cancer Cell Migration via Tumor Protein 53-Induced Nuclear Protein 1. *Keystone Symposia on RNA Silencing.* Seattle Washington. January 31, 2014 - February 5, 2014.
 21. Clara Chan, Anadulce Hernandez-Herrera, Yinghong Pan, **Preethi Gunaratne**, Gordon Robertson, Amy Rowat. Cell Mechanical Phenotyping for Screening microRNA-based Therapeutics. *University of California Bioengineering Symposium.* UC Irvine, 2014.
 22. **Preethi Gunaratne**, Yinghong Pan, Lykke Pedersen, Emilia Lim, Anadulce Hernandez-Herrera, Amy C Rowat, Clara Chan, Andy Chu, Yunfei Wen, Xinna Zhang, Payal Sipahimalani, Reanne Bowlby, Denise Brooks, Nina Thiessen, Yussanne Ma, Richard A Moore, Jacquie E Schein, Andrew J Mungall, Chad V. Pecot, Anil K. Sood, Steven JM Jones, Marco A Marra, and Gordon Robertson. microRNA 509 impairs migration and invasion, and impacts clinical outcomes in high-grade serous ovarian cancer. *The Cancer Genome Atlas' 3rd Annual Scientific Symposium.* Natcher Conference Center. National Institutes of Health. Bethesda, MD. May 12-13, 2014.
 23. Vida Chitsazzadeh, Tri Nguyen, Valencia Thomas, Michael Migden, Aaron Joseph, **Preethi Gunaratne**, Cristian Coarfa, Xiaoping Su, Elsa R. Flores, Kenneth Y. Tsai. "Identification and Functional Analysis of Key Genetic Drivers of Cutaneous Squamous Cell Carcinoma. *Society for Investigative Dermatology (SID) Annual Meeting.* Albuquerque, NM (May 2014).
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 25. Single-Molecule Sequencing of the Estrogen Receptor α Transcriptome in Breast Cancer Cells Reveals Novel Mechanisms. Philip Jonsson, Cristian Coarfa, **Preethi Gunaratne** and Cecilia Williams. *Advances in Genome Biology & Technology Conference.* Marco Island, Florida, February 12-15, 2014.
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 27. Anadulce Hernandez-Herrera, Ashley L. Benham, Weimin Xiao, Chad J. Creighton, Avinashnarayan Venkatanarayan, Jason M. Shohet, Matthew L. Anderson, Elsa R. Flores, and **Preethi H. Gunaratne** and the TCGA Network. Genotype matched tumor suppressor microRNAs for personalized treatment of ovarian cancer. *Noncoding RNAs in Development and Cancer.* Vancouver, Canada, January 20-25, 2013.
 28. Saurabh Agarwal, Zaowen Chen, **Preethi Gunaratne**, Jason Shohet. Epigenetic regulation of cancer stem cell enriched microRNAs in neuroblastoma. *Stem Cell Regulation in Homeostasis and Disease.* Banff, Canada, February 24—March 1, 2013.

29. Bliss-Moreau M, Coarfa C, Xiao W, **Gunaratne P**, Krett NL and Rosen ST. Synergy of small-molecule inhibitors in cutaneous T-Cell lymphoma cells: A discovery tool to define therapeutic targets in T-cell receptor (TCR) signaling pathways. *American Society of Hematology* meeting 2013.
30. Krett NL, Qian J, Xiao W, Coarfa C, **Gunaratne P** and Rosen ST. Genomic mapping of glucocorticoid receptor binding in multiple myeloma. *XIII International Myeloma Workshop*. Kyoto Japan. Abstract P-23. 2013.
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32. Krett NL (Invited speaker), Tessel M, Benham A, **Gunaratne P**, and Rosen ST. GC and microRNA: A newly discovered cross talk. *The Neuroendocrine Immune Basis of the Rheumatic Diseases (NEIRD) Conference*. Santa Margherita Ligure, Genova-Italy 2013. *(Selected for Oral Presentation).
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34. Vida Chitsazzadeh, Tri Nguyen, Valencia Thomas, Michael Migden, Aaron Joseph, **Preethi Gunaratne**, Cristian Coarfa, Xiaoping Su, Elsa R. Flores, Kenneth Y. Tsai. "Identification and Functional Analysis of Key Genetic Drivers of Cutaneous Squamous Cell Carcinoma. *American Physician Scientists Association (APSA) 2012 South Regional Meeting*. University of Texas Health Science Center at San Antonio, TX (October 2013).
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37. **Preethi Gunaratne**, Abhi Rao, Anadulce Hernandez-Herrera, Antonina Rait, Kathleen F. Pirolo, Ashley L. Benham, Weimin Xiao, David Wheeler, Richard A. Gibbs, Chad J. Creighton, Esther H. Chang. A Tumor-Targeted Nanocomplexed microRNA for Sensitizing High-Grade Ovarian Cancer to Chemotherapy. *TCGA 2nd Annual Scientific Symposium*. Washington DC. November 27-28, 2012.
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39. Ghosh R, Chen Z, Patterson D, Sikorski DN, Kim ES, Shohet JM and **Gunaratne PH**. (2012) Oncogenic hsa-miR-1323 down-regulates MYCN/ALK and reveals PAG1 as a novel tumor suppressor for neuroblastoma at 103rd AACR Annual Meeting, MARCH 30-April 4 2012, Chicago, IL.
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- the 19q13.41 Non-Coding RNA cluster. *AACR Annual Meeting* Abstract 10-A-7254. Washington, DC, April 2010.
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 64. Nagaraja, A.K., Creighton, C.J., Han, D.Y., Zhu, H., **Gunaratne, P.H.**, Reid, J.G., Olokpa, E., Khan, M.F., Ma, L., Matzuk, M.M., Anderson, M.L. (2009) "MicroRNAs in the Mammalian Ovary and Ovarian Cancer." *2009 Annual Meeting, Keystone Symposia, Frontiers in Reproductive Biology, Santa Fe, NM*.
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91. **Preethi H. Gunaratne**, David Wheeler, Ye Yuan, Angela Garcia, Anna Sneed, Marie-Claude Gingras, Judith Margolin, Richard A. Gibbs. Human Transcriptome Sampled with cDNA Sequence Tags Reveals Expression of Predicted Genes and Conserved Regions without Predictions (2005). *Advances in Genome Biology & Technology 2005 proceedings*.
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96. **Preethi Gunaratne**, Jiaqian Wu, Angela M. Garcia, Steven Hulyk, Carla Kowis, Anna Sneed, Amit Nanavati, Ye Yuan, Seema Nair, Kim Haberlin, Donna Muzny, Anne Hodgson, David Steffen and A. Richard Gibbs. (2004). An RT-PCR Rescue Platform for Large-Scale Targeted Recovery of cDNA Clones. *Advances in Genome Biology & Technology 2004 proceedings*.
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A.5. Invited Talks

1. American Society for Human Genetics-Qiagen Symposium – Virtual Talk – October, 2021
2. Baylor-Human Genome Sequencing Center (Baylor-HGSC) Virtual Seminar, March 20, 2021
3. 1st Annual GCC Single Cell Omics Symposium, Houston, TX, October 8, 2020
4. Texas Tech. Obesity Research Cluster Conference, Lubbock, TX, May 09, 2018 (Keynote)
5. Science and Technology for Society Forum Sri Lanka 2016, Keynote Address, Emerging Technologies Sessions, Colombo, Sri Lanka, September 7-10, 2016
6. SciLifeLab, KTH, The Royal Institute of Technology, Experimental Oncology KTH Royal Institute of Technology, Karolinska Institute, Stockholm, Sweden, July 22, 2016
7. Department of Zoology, Keleniya University, Sri Lanka, July 4, 2016

8. Institute of Experimental Biology, Colombo University, Sri Lanka, January 12, 2016.
9. First International Conference on Natural Products Genomics & Drug Discovery, Colombo, Sri Lanka, July 22-24, 2015.
10. 3rd Lowy Symposium – Drug Discovery to Personalised Medicine, Sydney, Australia, May 4-6, 2015.
11. Math Bio Institute (MBI) Ohio State University (OSU), Columbus, Ohio, April 17, 2015
12. College of Human Sciences, Texas Tech, Lubbock Texas, February 5, 2015.
13. UT School of Public Health, Houston, TX, November 17, 2014.
14. University of South Texas, San Marcos, October 3, 2014.
15. UCLA - Johnsson Comprehensive Cancer Center, February 10, 2014.
16. Department of Experimental Therapeutics, The University of Texas M. D. Anderson Cancer Center, February 27, 2013.
17. Genomic & RNA Profiling Center, Baylor College of Medicine, February 13, 2013.
18. Canada's Michael Smith Genome Sciences Center, Vancouver, British Columbia. January 25, 2013.
19. Ohio State University (OSU), Biophysics Seminar Series, Columbus Ohio, August 31, 2012
20. Center for RNAi and Non-Coding RNAs MD Anderson Cancer Center Symposium, Houston, TX July 27, 2012.
21. New York University (NYU) Medical School, Langone Medical Center, Department of Microbiology, New York, February 02, 2012.
22. Global Forum for Sri Lankan Scientists, Colombo, Sri Lanka, December 13-15, 2011.
(Session Chair – Biotechnology)
23. Wayne State University, Michigan, October 24, 2011.
24. Neils Bohr Institute, Copenhagen Denmark, June 15, 2011.
25. American Association for Cancer Research (AACR) Annual Meeting, Harvesting the yield of TCGA Session. Orlando, Florida, April 2, 2011.
26. Lowy Cancer Research Center, University of New South Wales, Sydney, Australia. March 2, 2011.
27. FSANZ (Food Standards of Australia and New Zealand), Canberra, Australia. February 28, 2011.
28. Department of Molecular & Cellular Biology, Baylor College of Medicine. January 20, 2011.
29. US Army Research & Material Command. Nanomaterials & Biomedicine Forum. Frederick, Maryland. August 24, 2010.
30. Sri Lanka Association for the Advancement of Science (SLAAS). August 5, 2010.
31. University of Bologna, Italy, July 4, 2010.
32. Embryonic and Induced Pluripotent Stem (iPS) Cells in Drug Discovery and Safety Assessment. June 9, 2010.
33. University of Chicago. Department of Pediatrics. May 20, 2010.
34. Northwestern University, Lurie Cancer Center. May 19, 2010.
35. American Association for the Advancement of Science. microRNAs in Disease & Development. (Meeting Co-organizer and Session Chair). Bioscience Research Center, Houston, TX. April 8-10, 2010.
36. American Association for the Advancement of Science. Stem Cell Sessions. Bioscience Research Center, Houston, TX. April 8-10, 2010.
37. Molecular Medicine Tri-Conference. iPS Cells: From Screening to Therapy. The Moscone North Convention Center in San Francisco. February 3-4, 2010.
38. Alliance for Nanohealth (ANH) Principle Investigator (PI) Meeting. Houston, February 23, 2010.
39. Lineberger Cancer Center. University of North Carolina at Chapel Hill. January 5, 2010.
40. University of North Carolina at Chapel Hill, Department of Obstetrics & Gynecology (OB/GYN Grand Rounds). January 5, 2010.
41. NCI - National Cancer Institute, Translational Genomics in Neuroblastoma Meeting (TGiN-3), Bethesda, MD. November 12-13, 2009.

42. Dan L. Duncan Cancer Center, Baylor College of Medicine. Houston, TX. October 12th 2009.
43. Baylor College of Medicine, Human Genome Sequencing Center. Houston, TX. October 27, 2009.
44. NCI/NHGRI - The Cancer Genome Atlas Consortium (TCGA) meeting. Berkely, CA. May 19-22, 2009.
45. Sri Lankan Medical Association (SLAMA) Annual Meeting– Plenary Session. March 19, 2009.
46. University of Colombo, Sri Lanka. March 12, 2009.
47. Hongkong University, Dec. 10, 2008.
48. 1st Annual World Congress of Regenerative Medicine & Stem Cell, Guangzhou, China. Embryonic and Fetal Stem Cell Tissue Engineering Session (Session Chair). Dec. 2-4, 2008.
49. 2nd Annual World Congress of Gene, Decoding Life for Human Health, Guangzhou, China. RNA Technologies: siRNA, RNAi, microRNAs, mRNA and Antisense Session. (Session Chair). Dec. 5-7, 2008.
50. American Association for the Advancement of Science (AAAS-SWARM). University of New Mexico. April 10, 2008.
51. American Physical Society (APS). Biological Physics Section. New Orleans, March 13, 2008.
52. UT MD Anderson Cancer Center. Microfluidic Technology Enabling Advances in microRNA Research. April 22, 2008.
53. FORCE-Seminar Department of Molecular & Human Genetics, Baylor College of Medicine. May 2008.
54. Department of Biochemistry, Baylor College of Medicine. 2006.
55. American Chemical Society (ACS-SWARM). Biochip Symposium. 2006.
56. Department of Molecular & Human Genetics, FORCE-Seminar, BCM, January 2007.
57. University of Texas Health Science Center at Houston. February 12, 2007.
58. Feigin Center Pediatric Research Seminar, Texas Children’s Hospital. February 21, 2007.
59. Southwest Regional Stem Cell Society, Houston. April 27, 2007.

A.6. Invited Meetings

1. NCI- NCI Working Group Workshop on Hepatocellular Cancer: New Indications and Directions, presented in collaboration with AACR and AASLD-Washington DC, November 6-7, 2018-11-13
Session Chair: Animal Models and Molecular Classification of HCC.
2. NC-TCGA Legacy Meeting. Multi-OMICS Studies-Cell Symposia. Washington DC, September 27-29, 2018.
3. Texas Tech – Obesity Research Cluster Conference, Lubbock, TX, May 09, 2018
4. NCI-The Cancer Genome Atlas (TCGA) – Pan Cancer workshop, Houston, TX, November 17-18, 2016. (Leader-Long non-coding RNA analysis working group)
5. NCI-The Cancer Genome Atlas (TCGA) – Pan Cancer workshop, Santa Cruz, CA, February 24-26, 2016. (Leader-Long non-coding RNA analysis working group)
6. George Mason University, Information Security Group, Washington DC – Designing new methods for encrypting genome sequences to protect individuals from insurance and employment discrimination – Spring 2016.
7. First International conference on Natural Products Genomics & Drug Discovery, Colombo, Sri Lanka, July 22-24, 2015.
8. Drug Discovery to Personalised Medicine, Sydney, Australia, May 4-6, 2015.
9. Math Bio Institute – Stem Cells Development & Cancer Meeting, Columbus, Ohio, April 13-17.
10. The National Cancer Institute/National Human Genome Research Institute (NCI/NHGRI) - The Cancer Genome Atlas (TCGA) - Steering Committee Meeting. Washington DC, April 27 2011.
11. American Association for the Advancement of Science Regional Meeting. April 8-10, 2010. Co-organizer.
12. Washington University Genome Center, St. Louis. Cancer Genomics. December 5, 2009.

13. The National Cancer Institute/National Human Genome Research Institute (NCI/NHGRI) - The Cancer Genome Atlas (TCGA) - Steering Committee Meeting. Broad Institute, MIT. November 17-20, 2009.
14. CPRIT- Cancer Prevention Research Institute of Texas – Inauguration/Steering committee Meeting. October 21, 2009.
15. The National Cancer Institute/National Human Genome Research Institute (NCI/NHGRI) - The Cancer Genome Atlas (TCGA) - Steering Committee Meeting. Washington DC, July 8-9 2009.
16. National Cancer Institute (NCI), Circulating Tumor Cells: Emerging Technologies for Detection, Diagnostics and Treatment” NIH-Bethesda, Maryland. September 10-11, 2009.
17. 11th Biennial Symposium on Minorities, the Medically Underserved & Cancer. Washington, D.C. April 2-6, 2008. (Led roundtable discussion and student tour of NIH)

A.7. Research Support

A.6.1. Active Research Support

1. **1R15HL141963-01A1** (McConnell) 04/01/2019 – 03/31/2022
Source: NIH/NHLBI \$33,276 (Total Direct Cost-Gunaratne)
Title: Gravin Signalosome Protein Coordinates Cardiac Function via Adrenergic Receptor Signaling. Role on Project: Co-PI
2. **CTV** (Gunaratne) 12/22/2017 – 12/31/2019
Source: Chevron Technology Ventures \$317,727 (Total Direct Cost)
Title: Developing New DNA Biomarkers For Oil Potential, Predicting Fracture Heights And Well Connectivity For Oil Industry Applications. Role on Project: PI
3. **R01CA218036** (Yang) 09/01/2017 – 08/31/2022
Source: MD Anderson Cancer Center/NIH-NCI \$100,000 (Total Direct Cost-Gunaratne)
Title: Combinational Treatment Strategies to Counteract EGFR Resistance
Role on Project: Co-Investigator
4. **1R01AI137275-01A1** (Mace) 09/01/2018 – 08/31/2020
Source: Columbia University/NIH-NIAID \$77,926 (Total Direct Cost-Gunaratne)
Title: Determining The Role Of The Replicative Helicase In Human NK Cell Development. Role on Project: Co-Investigator
5. **NIH/SBIR** (Metzker) 09/01/2019 – 08/31/2020
Source: RedVault BioSciences/NIH-SBIR \$48,527 (Total Direct Cost-Gunaratne)
Title: Solid-Phase Replication of Long Template Libraries for NGS Applications
Role on Project: Co-Investigator
6. **RP180674-C2** (Lopez-Terrada) 08/31/2018 – 08/30/2022
Source: Baylor College of Medicine/CPRIT/MIRA \$24,804 (Total Direct Costs-Gunaratne)
7. **High Priority Area Large Equipment Grant** (Gunaratne) 07/01/21-06/31/22
Source: **UH-DOR** \$245,000 (Total Direct Cost)
Title: Advancing the Single Cell Sequencing Platform to Accommodate Solid Tissue and Incorporating Digital PCR for High-Throughput Screening
Role on Project: Principal Investigator
8. **Minor Research Core Facility Grant** (Gunaratne) 07/01/2017 – 06/30/2021

Source: UH-DOR/College of NSM \$500,000 (Total Direct Cost)

Title: UH-Sequencing and Gene Editing Facility

Role on Project: PI

9. **High Priority Area Small Equipment Grant** (PH Gunaratne)07/01/17-06/31/21

Source: UH-DOR \$50,000 (Total Direct Cost)

Title: UH-Sequencing and Gene Editing Facility

Role on Project: Principal Investigator

A.6.2. Pending Research Support

A.6.3. Completed Research Support

1. **NCI-1R01CA194617-01** (K Tsai) 04/10/15-03/31/19
Source: NIH/NCI
Title: (PQA4) Molecularly Targeted Chemoprevention for Preneoplastic Squamous Epithelia
Role on Project: Co-Investigator Gunaratne/Total Cost: \$102,446
2. **1R01CA160394-01A1** (ER Flores) 04/01/12 – 03/31/17
Source: NIH-NCI
Title: Roles of p63 in regulation of miRNA and LincRNA targets in metastatic cancer
Role on Project: Co-Investigator Gunaratne/Total Cost: \$291,569
3. **RP120124** – (ER Flores) 01/01/12-12/31/14
Source: **CPRIT- Cancer Prevention Research Institute of Texas**
Title: Investigating the roles of p63 in miRNA regulation in EMT and metastatic breast cancer
Role on Project: Co-Investigator Gunaratne/Total Cost: \$354,398
4. **NYSTEM** (C. Basilico) 06/01/14-05/31/17
Source: New York
Title: Regulatory Networks Determining Sox2 Dependence of Osteosarcoma Stem Cells
Role on Project: Co-Investigator Gunaratne/Total Cost: \$68,572
5. **1R01GM106069** (C. Williams) 08/1/2013 - 5/31/2015
Source: NIH/NIGMS
Title: Elucidating The Mechanism Of ER-beta In Colon Carcinogenesis
Role on Project: Co-Investigator Gunaratne/Total Costs: \$66,470
6. **RP110028** - (Goodell, M –PI) 01/01/11 – 31/12/13
Source: **CPRIT- Cancer Prevention Research Institute of Texas**
Title: Role of DNA Methyltransferase 3B in normal and malignant hematopoiesis
Role on Project: Co-Investigator Gunaratne/Total Cost: \$240,000
7. **RP110040** - (Donehower, L–PI) 01/01/11 – 31/12/13
Source: **CPRIT- Cancer Prevention Research Institute of Texas**
Title: Inhibition of the Wip1 oncogenic phosphatase as an anti-cancer
Role on Project: Co-Investigator Gunaratne/Total Cost: \$187,295
8. **RP110355** - (Gunaratne, PH –PI) 01/01/11 – 31/12/12
Source: **CPRIT- Cancer Prevention Research Institute of Texas**
Title: siRNA/microRNA-conjugated gold nanoparticle dendrons for sensitizing cancer cells to chemotherapy
Role on Project: Principal Investigator (PI) Gunaratne/Total Cost: \$199,977
9. **5R01-MH080433-04 NCE** - (RA Gibbs - PI) 08/1/2011 - 3/31/2012
Source: NIH-NIMH

- Title: The Genetic And Genomic Study Of microRNA In Bipolar And Schizophrenia
Role on Project: Collaborator Gunaratne/Total Cost: \$211,241
 10. **1R01HL095382** (DB Corry - PI) 09/30/08 – 09/29/12
Source: NIH-NHLBI
Title: Short RNA profiles in Human COPD/Emphysema
Role on Project: Co-Investigator Gunaratne/Total Cost: \$691,890
 11. **1R01GM093110-01A1** - (V Meller - PI) 01/01/11 – 12/31/14
Source: NIH-NIGMS
Title: Small RNA and whole chromosome recognition
Role on Project: Co-Investigator Gunaratne/Total Cost: \$64,887
 12. **MMF 104111** (ST Rosen-PI) 01/01/12-12/31/12
Source: Multiple Myeloma Foundation
Title: Identification of Gene Networks Regulated by Glucocorticoids in Multiple Myeloma
Role on Project: Co-Investigator Gunaratne/Total Cost: \$28,000
 13. **Alliance for Nano Health-UTHSC Pilot Grant** (PH Gunaratne - PI) 09/01/09 – 08/31/11
Source: USAMRMC BAA08-UTHSC (Mauro Ferrari – PI)
Title: Integrating Amine-functionalized Gold Nanoparticle Conjugated MicroRNAs into Cancer Prognostic and Therapeutic Strategies Targeted at Drug Resistant Multiple Myeloma
Role on Project: PI-pilot grant Gunaratne/Total Costs: \$65,000
 14. **U54 HD07495-36** - (BW O'Malley - PI) 04/01/09 – 03/31/12
Source: NIH-NICHD
Title: MicroRNAs in endometrial function and dysfunction
Role on Project: Co-Investigator Gunaratne/Total Costs: \$66,000
 15. **CF00730-4041-H0104-B2754-NA** 01/01/11 – 12/31/12
Source: Cullen Foundation
Title: Establishing a platform for Nanohealth and Genomic Medicine
Role on Project: PI Gunaratne/Total Costs: \$250,000
 16. **H-24193** (MM Matzuk – Multi-PI) 12/31/07 – 12/30/10
Source: Ovarian Cancer Research Fund
Title: MicroRNAs as diagnostic and therapeutic targets in ovarian cancer
Role on Project: Co-Principal Investigator (Co-PI) Gunaratne/Total Costs: \$180,000
 17. **Baylor College of Medicine – Pilot Grant** (Gunaratne) 09/30/09 – 08/31/11
Source: NIGMS- P01 GM081627 (Margaret Goodell – PI)
Title: Integrating Ronin-regulated microRNAs into Human ES Cell gene networks
Role on Project: PI-pilot grant Gunaratne/Total Costs: \$85,500

A.7. Patents

Inventor/co-inventor

1. Provisional Application: UH ID No. 2021-002 | Attorney Docket No. 23853-P162V1
Discovery and use of immunogenic peptides for the treatment and prevention of cancers
2. Provisional Application: UH ID No. 2021-002 | Attorney Docket No. 2019-058 (T-11416-P)
Systems and methods for analytic mapping of the metageomic and hydrocarbon footprints of geologic subzones
3. U.S. Patent Appl. No. 13/136,498; PCT patent # PCT/US2011/001356
Interior Functionalized Hyperbranched Dendron-Conjugated Nanoparticles and uses Thereof
4. U.S. Patent Appl. No. 13/319,446. CLFR.P0342US

miRNA Expression in Allergic Disease

5. U.S. Patent Appl. No. 13/437,128; PCT patent PCT/US2012/31809
microRNA-29a,b,c as a sensitizing agent for chemotherapy
6. Issued: U.S. Patent Appl. No. 13/437,251; PCT patent PCT/US2012/31822
microRNA-130a,b as a tumor suppressor of cancer
7. Issued: U.S. Patent Appl. No. 13/453,553; PCT patent PCT/US2012/34655
microRNA-140-5p as a tumor suppressor of cancer
8. U.S. Patent Appl. No. 13/501,806; PCT patent PCT/US2012/34655
microRNA miRNA-31 as a therapeutic approach for the treatment of cancer
9. BLG# 11-052: MicroRNAs sensitize ovarian cancers to platinum chemotherapy
10. Provisional patent application for UHID-2021-002-Immunogenic Peptides for the Treatment and Prevention of Cancer-Winstead Ref. No. 23853-P162V1
11. UHID 2020-060; Appl No. 63/063,815; A Dual Viral Infection|Host Response detection Test Kit: Winstead Ref. 23853-P161V1
12. UHID 2329-51 (2019-058) Systems and Methods for Analytic Mapping of the Metagenomic and Hydrocarbon Footprints of Geologic Subzones. Chevron Corporation.

A.8. New Company Formation

2019 Co-Founder, CEO and CSO, GeOME Analytics

2014 Founder and Chief Scientific Officer (CSO) NEXTmiRNA Technologies (<http://www.nextmirna.com/>)

A.9. National Consortia

- NCI – TCGA PanCancer Consortium – 2016-2019
- Leader Long non-coding RNA Group
- NCI/NHGRI –The Cancer Genome Atlas (TCGA) Consortium 2009-present
- Leader microRNA Analysis Groups – Ovarian, Colorectal, Kidney cancers
- NHGRI – Marmoset Genome Consortium – 2010-2013
- Leader microRNA Analysis Group
- NHGRI – Zebrafish Genome Consortium 2009
- Leader microRNA Analysis Group
- NIDDK – Stem Cell Genome Anatomy Project (SCGAP) Consortium 2003-2005
- NHGRI/NCI – Mammalian Gene Collection (MGC) Consortium 2002-2005
- Leader Baylor Human Genome Sequencing Center-Gene sequencing Group
 - Led Baylor Team to make the largest single contribution to the NCI-Mammalian Gene Collection in Phase I
- NHGRI –The International Human Genome Project Consortium 1999-2003
- Human Chromosomes 3, 12 and X

A.10. Editorial Boards

2011-2019 Review Editor, Frontiers in Non-coding RNA Journal

A.11. Manuscript Review

Nature Reviews, Nature Protocols, Proc. Natl. Acad. Sci. (PNAS), Molecular Cell, Genome Research, Cancer Research, Clinical Cancer Research, Oncotarget, Nucleic Acids Research, PLoS ONE, BMC Genomics, BMC Bioinformatics, Briefings in Bioinformatics, British Journal of Cancer, Genome Biology, Molecular

Carcinogenesis, Molecular Cancer Therapeutics, Frontiers in Non-coding RNA, Genomics, Genome Medicine, Gene Expression Patterns (GEP), Elsevier, Cell Research, Toxicology & Applied Pharmacology (TAAP), Journal of Theoretical Biology, Pancreas Journal

A.12. Expert Peer Reviewer – Grants & Programs

2020-2023 KTH (Royal Institute of Technology in Stockholm), Sweden RAE-2020-2023
2020-2023 Research Foundation Flanders (FWO), Belgium
2020-2021 Department of Defense (DOD) – Peer Reviewed Medical Research Program (PRMRP)
2015, 2021 Swiss National Science Foundation (SNF)
2017-2021 Florida Department of Health (F-DOH)
2020 Department of Defense (DOD)
Peer Reviewed Medical Research Program (PRMRP) COVID-T-2
2020 Department of Defense (DOD)
Breast Cancer Research Program – Nanotechnology Panel (BCRP-NT)
2017-2019 Pennsylvania Department of Health (PA-DOH)
2017-2018 Expert Peer Review U.S. FDA Research Program
2016 NCI-2016/05 ZCA1 SRB-J (M2) R–Special Emphasis Panel/Scientific Review Group
Provocative Question 6, “What are the underlying molecular mechanisms that are responsible for the functional differences between benign proliferative diseases and premalignant states”
2015 NCI-ZCA1 SRB-J (M2) S–Special Emphasis Panel/Scientific Review Group
Pennsylvania Department of Health (PA DOH) Scientific Review Group
2011/2012 NIH-ZRG1GGG-H30S–Special Emphasis Panel/Scientific Review Group
NIH-ZRG1 GGG-H31S – High-end Instrumentation Grants
NHMRC-National Health and Medical Research Council- Australia
2012 Duncan Family Institute (DFI) Seed Funding Research Program
2011 Czech Science Foundation
2011 Netherlands-Research Foundation Flanders (FWO)
2010 NIH – CNIHR – Ad Hoc
Cancer Research UK
2009-2010 US-Israel Binational Science Foundation
2010 Israel Science Foundation

A.13. Colloquia & Meeting Organization

Symposium co-organizer

April 2010 - American Association for the Advancement of Science (AAAS) regional meetings. Houston, TX.
2008 - Colloquium: Modeling and Analysis of Biological Networks (Transcriptional, Signaling, Metabolic), Houston, TX.

Session chair

April 2010 - AAAS - MicroRNAs in Disease & Development (Houston, TX)
2008 – 1st Annual World Congress of Regenerative Medicine & Stem Cell, Guangzhou, China. Embryonic and Fetal Stem Cell Tissue Engineering Session
2008 – 2nd Annual World Congress of Gene, Decoding Life for Human Health, Guangzhou, China. RNA Technologies: siRNA, RNAi, microRNAs, mRNA and Antisense Session
2001 – ASHG (American Society for Human Genetics Proceedings) Gene Expression & Genomics – SanDiego.

A.14. Dual Appointments

2019-Present Department of Molecular & Cellular Biology, Baylor College of Medicine
2006-Present Human Genome Sequencing Center, Baylor College of Medicine
2006-2019 Department of Pathology, Human Genome Sequencing Center, Baylor College of Medicine

A.15. External Advisory Committees and Panels

2014-Present MD Anderson Cancer Center – Ovarian Cancer SPORE – Liason for University of Houston
2010-Present Genomic & RNA Profiling Core Advisory Committee, Baylor College of Medicine, Houston
2013-2014 AAAS-SWARM Executive Committee
2012 National Health and Medical Research Council (NHMRC) Australia, Translation Faculty
2010/2011 Peer reviewer of University programs - University of Padua
2011 Elkins Pancreas Center - Baylor College of Medicine, Strategic Planning Retreat
2010 Human Genome Sequencing Center, Baylor College of Medicine, Strategic Planning Retreat
2010 Huffington Center on Ageing – Baylor College of Medicine, Strategic Planning Retreat

A.15. Professional and other Memberships

1999-2009 American College of Medical Genetics – Fellow
2009-Present Dan L. Duncan Cancer Center – Member

B. TEACHING

B.1. Courses Taught

2020-Present Biomedical & Industrial Applications of Genomics (BCHS 6297 – Special Topics Course), UH
2013-Present Nucleic Acids & Human Disease (BCHS 4397–Special Topics Course), UH
2008-Present Nucleic Acid Biochemistry (BCHS 4306), UH
A core 3-credit hour course for seniors and undergraduate UH Biology and Biochemistry Majors.
2013-2014 Bioinformatics and Genomic Analysis course, Baylor College of Medicine
microRNA section - (705-459J, 320-459J/310-459J)
2009-2011 Genome Biology & Next Generation Technologies (Biol6297 – Special Topics Course), UH
2008 Non-coding RNA & RNA Interference (Biol6297 – Special Topics Course), UH
A 2-credit hour course for graduate students covering topics on the emerging field of non-coding RNAs & RNA Interference (New course).
2004-2007 Introduction to the Principle of Genetics (Biol3301), UH
A core 3-credit hour course for juniors and undergraduate UH Biology Majors. Average class size - 250 students.
2005 Introductory Biology (Biol1432), UH
A core 4-credit hour course for freshman and undergraduate UH Biology Majors. Class size 400 students.
1989 Bacterial Genetics, Medical Board Review, Rush University, Chicago, IL
1984 Molecular Evolution, Teaching Assistant, Cornell University
1982-1984 Genetics 281, Teaching Assistant, Cornell University.

B.2. Trainees

Faculty

2019-2022 Kimberly Holloway, Ph.D.

- (UH-Sequencing Core – Project Manager)
- Associate Director of Translational Oncology Associate Director of Translational Oncology, Iterion Therapeutics
- 2019-2021 Jignesh Chandana, M.S.
(UH-Sequencing Core - Automation/Clinical Sequencing Specialist)
- Lead Lab Automation Developer-Invitae
- 2016–2018 Sujash Chaterjee, Ph.D. (Research Assistant Professor)
- Lead-Product Marketing and Commercialization, Genomics, NA at QIAGEN
- Global Cancer Research Lead
- 2017 Navin Rustagi, Ph.D. (Research Assistant Professor)
- Data Scientist at McKinsey & Company
- 2015–2016 Utpal Pandya, Ph.D. (Research Assistant Professor)
- 2011–2013 Weiming Xiao, Ph.D. (Research Assistant Professor)
- Co-founder and Chief Scientist at Shenzhen Lucky Source Investment Management Corporation.

Postdoctoral

- 2013–2018 Yinghong Pan, Ph.D. (Research Associate)
- Project Manager, Genome Center
University of Pittsburgh Medical College (UPMC)
- Sr. Application Scientist at PerkinElmer, Inc.
- 2009–2013 Lalithya Jayarathne, Ph.D. (Research Associate)
- 2007 Rafal Drabek, Ph.D. (Postdoctoral Fellow)

Graduate Students

- 2020-Present Micah Castillo, Ph.D. Candidate, Biochemistry
- 2019-Present Sakuni Rankothgedera, Ph.D. Candidate, Biochemistry
- 2020-Present Ethan Speakman, Ph.D. Candidate, Physics (Co-Mentor)
- 2021-Present Aaranya Kandasamy, Ph.D. Candidate, Biochemistry
- 2016–2020 Asha Palat: Ph.D. Candidate, Molecular & Cellular Biology
McCammon Fellowship 2019
- Post Doctoral Fellow, UH-Sequencing Core, Houston, TX
- Brandon Mistretta, Ph.D. Candidate, Biochemistry
McCammon Fellowship 2020
- Field Application Scientist, 10X Genomics
- 2016–2019 Jason Hoggard, Ph.D. Candidate, Biochemistry
McCammon Fellowship, 2018
- Post Doctoral Fellow, Human Genome Sequencing Center, Baylor College of Medicine, Houston, TX
- Postdoctoral Research Fellow, Division of Congenital Heart Surgery, Texas Children’s Hospital, Houston, TX
- 2012–2017 Ian Wilson. M.Sc. Candidate, Biochemistry
M.Sc. (2020)
- Sagar Patil: Ph.D. Candidate, Biochemistry
Harwood Fellowship 2016
- Postdoctoral Fellow, Columbia University, New York, NY
- Johnson Hoang: Ph.D Candidate, Biochemistry
- Ph.D., SCYM (ASCP), Lead Researcher at St. Jude Children's Research Hospital

- 2009–2014 Anadulce Hernandez-Herrera, Ph.D. Biochemistry (Contactyn-Fellowship)
- Lester and Sue Smith Breast Center, Biobank Research Coordinator, Baylor College of Medicine – 2017
 - Clinical Trials Team, UCSF, San Francisco, CA; Breast Center
- 2008–2012 Rajib Ghosh, Ph.D. Molecular & Cellular Biology
- Post Doctoral Fellow – Johns Hopkins University, MD
 - Research Assistant Professor, University of West Virginia, VA
 - Senior Scientist at Abcam
 - Principal Scientist, Bristol Myers Squibb
- 2007–2011 Jayantha Tennakoon, Ph.D. Molecular & Cellular Biology
- Healthcare Consulting Firm, Chicago, IL
- 2007–2011 Ashley Benham-Duret, Ph.D. Biochemistry
- Post Doctoral Fellow – Texas Heart Institute, Houston
 - Senior Scientist, 10X Genomics
 - Sales Executive II
- 2007–2008 Arash Naghavi-M.Sc., Molecular & Cellular Biology
- MD program UTMB, Radiology Fellow-Moffit Cancer Center, Radiation Oncologist, FL

Undergraduate Students

- 2016-2017 Alondra Uribe – Baylor College of Medicine-Internship
- 2015 Radhini Abesekera – Baylor College of Medicine, MD program 2016 (2014, SURF Award), Honors College UH
Kaiser Tin – Honors College, UH
- 2014 Vicky Hua - University of Texas Health Science Center at San Antonio School of Dentistry
- 2014 Helen Mata – Diagnostic Genetics Master program at UT MD Anderson
- 2014 Marcus Philips, Natasha De La Rosa
- 2013-2014 Suddad Kazazz – 2015, Baylor College of Medicine, MD program (2014, PURS Award, 2014 British-American Foundation of Texas Award)
- 2012-2014 Grace Kang – Memorial Herman Hospital
- 2011 Patricia Akinfenwa – Baylor College of Medicine Translational Biology, Ph.D. Program
- 2009-2012 Jeremy Scott Moncrieff – UT SouthWestern Medical School, (2012, SURF award, Winner-Presentation)
- 2009-2012 Maria Villegas – (2012 – PURS Award)
- 2010 David Hoang – UT SouthWestern, MD Program (Winner 2012, SURF award)
- 2009 Jad El Daye – UT SouthWestern MD Program (2009, PURS award)
- 2008 Arash Naghavi – UTMB MD Program (Radiology Fellow – Moffit Cancer Center)
Michael Fountain – Baylor Translational Biology, Ph.D Program (Ph.D Translational Biology 2015)
- 2007 Alex Garbino – Baylor MD/Ph.D program
- 2006 Mahjabeen Khan – Winner - SURF Award, 2007
Arman Jahangiri – UT Southwestern, MD Program, Undergraduate Honors Thesis

Graduate Students – Completed Ph.D. (11)

1. 2017-2020 Asha Palat, Ph.D. Molecular & Cell Biology
Dissertation Title: *microRNA-509-3p Intercepts Metabolic Reprogramming by Targeting Multiple Driver Genes of Glycolysis and Glutaminolysis to Sensitize Ovarian Tumors to Chemotherapy*
 PostDoctoral Fellow, UH-Sequencing Core
2. 2017-2020 Brandon J. Mistretta, Ph.D. Biochemistry
Dissertation Title: *Discovering Novel RNA Regions to Develop Biomarkers and Therapeutic Opportunities for Breast Cancer & SARS-CoV2*
 Field Application Specialist (FAS) 10X Genomics
3. 2016-2019 Jason Hoggard, Ph.D. Biochemistry
Dissertation Title: *Discovering Pathogenic Variants Associated with Tricuspid Atresia through Whole Exome Sequencing*
 Post-Doctoral Fellow, Human Genome Sequencing Center, Baylor College of Medicine
 Post-Doctoral Fellow, Department of Surgey, Texas Children's Hospital
4. 2016-2018 Johnson Hoang, Ph.D. Biochemistry
Dissertation Title: *Mixed Quarternary-Ammonium-coated Gold Nanoparticles for Delivery of MicroRNA*
5. 2012-2017 Sagar Patil, Ph.D. Biochemistry
 - **Dissertation Title:** *Developing microRNA-509-3p as an inhibitor of metastatic progression and cisplatin sensitizer for osteosarcoma"*
 - Senior Research Technologist at St. Jude Children's Research Hospital
 - Post-Doctoral Fellow, Department of Pediatrics-Allergy & Immunology, Texas Children's Hospital
 - Post-Doctoral Fellow, Department of Pediatrics-Columbia University
6. 2009-2014 Anadulce Hernandez-Herrera, Ph.D. Biochemistry
 - **Dissertation Title:** *A genome-wide search for tumor suppressor microRNAs in ovarian cancer*
 - Present – Biobank Research Coordinator, Lester & Sue Smith Breast Center, Baylor College of Medicine
 - 2015-2016 Clinical Trials Team, University of California San Francisco (UCSF), CA
 - 2014-2015 MD-Anderson Cancer Center, Houston, TX
7. 2008-2013 Jayantha Tennakoon, Ph.D. Molecular & Cellular Biology
 - **Dissertation Title:** *Impact of Dicer on the Embryonic Stem Cell Epigenome and Androgen Mediated AMPK-PGC1 α Signaling in Prostate Cancer.* (Co-mentored with Dr. Dan Frigo – Center for Nuclear Receptors & Cell Signaling)
 - Present – Health Care Consulting Company – Chicago, IL
8. 2008-2012 Rajib Ghosh, Ph.D. Molecular & Cellular Biology
 - **Dissertation Title:** *Redefining tumor suppressor microRNAs: functional complexities & nanoparticle mediated delivery*
 - Postdoctoral Fellow – Johns Hopkins University, Baltimore, MD
 - Research Assistant professor, University of Virginia, VA
 - Scientist, Abcam
9. 2007-2011 Ashley Benham, Ph.D. Biochemistry
 - **Dissertation Title:** *MicroRNA: Discovery Family Dynamics and Functional Implications*
 - Postdoctoral Fellow – Texas Heart Institute, Houston, TX
 - Field Application Specialist 10X Genomics
10. 2008-2010 Huifeng Zhu, Ph.D. Physics – Completed May 2010
Dissertation Title: *MicroRNA Bioinformatic Analysis and Pattern Formation in Drosophila* (Co-mentored with Dr. Gemunu Gunaratne-Physics)

C. SERVICE

C.1. Department, College and University

C.1. Departmental Committees

2021	Faculty Search Committee, Nuclear Receptor & Cell Signaling, UH
2020	Faculty Search Committee, Computational Biology, UH
2017	Faculty Search Committee, Electrical & Computer Engineering, UH
2016	Faculty Search Committee, Nuclear Receptor & Cell Signaling, UH
2014-2015	Faculty Search Committee – Quantitative Biology, Biochemistry, UH
2012-2015	Graduate Recruitment & Admissions Committee, Biology & Biochemistry, UH
2008–2010	Faculty Search Committees – Center for Nuclear Receptors/Cell Signaling, UH
2006–2010	Graduate Recruitment & Admissions Committee, Biology & Biochemistry, UH
2005–2007	Faculty Search Committees – Cell & Molecular Biology, UH
2005–2007	Faculty Search Committees – Neuroscience, Biology & Biochemistry, UH

C.2. College & University Committees

2020-Present	Scientific Advisory Board, HEALTH Center for Addictions Research and Cancer Prevention
2019-Present	Moore’s Professorship Selection Committee
2018-2019	Executive Board, Data Science Institute (DSI), University of Houston
2015-Present	Director, Next Generation Sequencing Core, UH http://seqnedit.nsm.uh.edu/
2014-2019	UH-ADVANCE ADVOCATE
2013-2014	Search committee for Dean of Natural Science & Mathematics (NSM), UH
2014-Present	Executive Committee – UH Next Generation Sequencing Center
2012-2013	Honorary Degree Committee, Provost Office, UH
2011–2012	NSM Biotech Incubator Committee (NSM), UH
2010	Search committee for Dean of Natural Science & Mathematics (NSM), UH
2008–2012	Executive Committee - Institute for Molecular Design (IMD) Sequencing Center
2007–2009	Faculty Advisor - Minority Association of Pre-medical Students
2007–2010	Faculty Sponsor - Collegiate Cancer Council- UH Chapter (Student-run cancer awareness and health disparities organization serving the medically underserved population in Houston)

C.3. Outreach programs

2008–2009	Hosted McNair Foundation Scholar from SUNY, New York
2006–Present	Hosted 6 SURF scholars – University of Houston
2008–Present	Hosted 3 PURS scholars – University of Houston
2008–2021	Hosted 70 High School Interns (60 USAEOP/REAP scholars)

REAP/USAEOP - Department of Defense /Research and Engineering Apprenticeship Program

2008-2022 – 68 Interns – \$210K

2-interns (2008), 2-interns (2009), 5-interns (2010), 4-interns (2011) 7-interns (2012), 7-interns (2013), 5-interns (2014), 2-interns (2015), 2-interns (2016), 4-interns (2017), 4-interns (2018), 7-interns (2019), 5-interns (2020), 8-interns (2021), 4-interns (2022)

Fatma Tanis and Rebecca Abrams (Harmony Academy – (HISD)

- Intel Science and Engineering Fair (ISEF) 2009 – 3rd place Texas State

Pooja Prasad (Bellaire High School – Houston Independent School District)

- Undergraduate – Rice U
- Intel Science and Engineering Fair (ISEF) 2012 – 2nd place, Houston District and 3rd place Texas State
- American Gastroenterology Association (AGA) Fellowship

Siddharth Reddy (Phillip's Exeter)

- B.Sc. - Cornell University
- Ph.D. Program – Department of Computer Science, Berkely (Laboratory of Sergey Levine and Anca Dragan - Developing machine learning to improve human-robot collaboration)
- ISWEEP – Winner 2012

Shanika Silva (Clear Lake High School, CISD)

- 1st place at Friendswood High School Science Fair in mathematics
- 2013 Galveston County Science Fair in mathematics – 1st place
- 2013 Houston Science and Engineering Fair in Mathematics – 3rd place
- 2013 Exxon Mobile Texas Science and Engineering Fair in Mathematics – 3rd place
- 2013 Council of Texas Statisticians – 1st place
- 2014 Senior Division, American Statistical Association – 1st place

Chathuri Wickramaratne (John Foster Dulles High School, HISD)

- 2014 John Foster Dulles High School Math and Science Academy "Best in Show" Award

Radhini Abeyasekera (Clear Lake High School, Clear Lake ISD)

- 2016 – Medical School, UTHSC Medical School

Melanie Rodrigo (Clear Lake High School, Clear Lake ISD)

- 2016 – Medical School, UTMB
- 2020 – Residency, Neurology, Washington University Medical School

Abhinav Vadassery (Clements High School, Sugar Land, ISD)

- 2019 – Winner, Houston District Science Fair