

## Margaret Anne Goodell, Ph.D.

Chair, Department of Molecular and Cellular Biology  
Director, Stem Cells and Regenerative Medicine Center  
Vivian L. Smith Chair of Regenerative Medicine  
Baylor College of Medicine  
1 Baylor Plaza, Room N604 • Houston, TX 77030 • (713) 798-1265  
goodell@bcm.edu • www.goodell-lab.com • @Goodell\_Lab

### EDUCATION

- 1986-1991 Ph.D. in Molecular Biology, University of Cambridge, Cambridge, England  
*Mentor:* Andrew Smith, Ph.D.
- 1984-1986 B.S. in Biochemistry, with Honors, Imperial College of Science and Technology,  
London, England
- 1982-1984 Wesleyan University, Middletown, CT

### ACADEMIC APPOINTMENTS

- 2019-Present *Chair*, Department of Molecular and Cellular Biology, Baylor College of Medicine
- 2006-Present *Professor*, Departments of Molecular and Cellular Biology, Molecular and Human Genetics, Pediatrics, and Pathology and Immunology; Center for Cell and Gene Therapy, and Dan L. Duncan Cancer Center, Baylor College of Medicine
- 2005-Present *Director*, Stem Cells and Regenerative Medicine Center, Baylor College of Medicine
- 2002-2006 *Associate Professor*, Center for Cell and Gene Therapy, Departments of Pediatrics and Molecular & Human Genetics, Baylor College of Medicine
- 1997-2002 *Assistant Professor*, Center for Cell and Gene Therapy, Departments of Pediatrics and Molecular & Human Genetics, Baylor College of Medicine
- 1991-1997 *Postdoctoral Fellow*, Whitehead Institute for Biomedical Research, Cambridge, MA, and Harvard Medical School, Boston, MA. *Mentor:* Dr. Richard C. Mulligan.

### HONORS AND AWARDS

- 2023 Donald Metcalf Award, International Society of Experimental Hematology (ISEH)
- 2022 O Michael Colvin Memorial Lecture, Duke University
- 2022 Nicola David-Pinedo Family Lecture, Dana-Farber Cancer Institute
- 2020 Tobias Lecture Award, International Society for Stem Cell Research (ISSCR)
- 2020 Clement A. Finch Visiting Professor, University of Washington
- 2019 National Academy of Medicine (NAM), Elected Member
- 2019 Diana Brown Memorial BRASS Mentor of the Year Award
- 2017 Trinity College, Cambridge, UK, Visiting Fellow

2017 Till and McCulloch Lecture, International Society for Stem Cell Research (ISSCR)  
 2016-2017 Visiting Sabbatical Fellow, Wellcome Trust Sanger Institute  
 2015 American Association for the Advancement of Science (AAAS), Fellow  
 2012 William Dameshek Award, American Society of Hematology (ASH)  
 2011 Michael E. DeBakey Excellence in Research Award, Baylor College of Medicine  
 2011 Edith and Peter O'Donnell Award in Medicine, The Academy of Medicine, Engineering & Science of Texas (TAMEST)  
 2008 Excellence in Teaching Award, Department of Pediatrics, Baylor College of Medicine  
 2007 Vivian L. Smith Chair of Regenerative Medicine, Baylor College of Medicine  
 2006-2011 Established Investigator Award, American Heart Association  
 2006-2010 Senior Scholar Award, Ellison Medical Foundation  
 2006 Stohlman Scholar Award, Leukemia and Lymphoma Society (LLS)  
 2005 Mentor of the Year Award, Center for Cell and Gene Therapy, Baylor College of Medicine  
 2004 Michael E. DeBakey Excellence in Research Award, Baylor College of Medicine  
 2003 Mentor of the Year Award, Center for Cell and Gene Therapy, Baylor College of Medicine  
 2001 Research Achievement Award Finalist, W. M. Keck Foundation  
 2001-2005 Scholar Award, Leukemia and Lymphoma Society (LLS)  
 1999-2001 Fellow Scholar Award, American Society of Hematology (ASH)  
 1999-2000 Shannon Award, National Institutes of Health  
 1994-1997 Amgen Special Fellow, Leukemia Society of America  
 1990-1993 Post-doctoral Fellowship, Leukemia Society of America  
 1989-1990 American Association of University Women Pre-Doctoral Fellowship  
 1986-1989 Overseas Research Student Award

## PROFESSIONAL SERVICE

### *National/International*

2022-2024 National Academy of Medicine (NAM), Section 2 Membership Vice Chair  
 2022 Chinese Academy of Medical Sciences, 8<sup>th</sup> International Forum on Stem Cells (IFSC), Co-Chair  
 2021-2024 The Academy of Medicine, Engineering & Science of Texas (TAMEST), Edith and Peter O'Donnell Awards Committee and Medicine Subcommittee (Chair 2023)  
 2022 American Association for Cancer Research (AACR), Co-Chair on Special Conference on Cancer Epigenomics  
 2022 Dana-Farber Cancer Center Institute, Lubin Family Foundation Scholar Award, External Advisory Committee  
 2022-2023 American Society of Hematology (ASH), Liaison to the Finance Subcommittee  
 2021-2022 National Institute on Aging, Division of Aging Biology (DAB-NIA) Quinquennial Review Council Co-chair  
 2020-2023 American Society of Hematology (ASH), Committee on Investment and Audit  
 2021-2024 Cancer Epigenetics Institute, Fox Chase Cancer Center, External Advisory Board  
 2019 American Association for Cancer Research (AACR), Annual Meeting, Co-Chair, Program Committee

2019 Lead Organizer, Keystone Symposia “*Cell Competition in Development and Disease*”

2018-2022 National Institute on Aging (NIA), National Advisory Council on Aging (NACA)

2018-2021 DKFZ-ZMBH Alliance Germany, Scientific Advisory Board

2018 Co-Organizer, special conference on Epigenetics and Cancer, American Association for Cancer Research (AACR)

2017-2025 Keystone Symposia, Secretary of Board/Chair of Scientific Advisory Board

2016-2017 Deputy Chair of Scientific Advisory Board, Keystone Symposia

2016-2025 Keystone Symposia, Finance Committee, Nominating Committee and Innovation Technology Committee

2015-2025 Keystone Symposia, Board of Directors

2016-2019 American Society of Hematology (ASH), Scientific Committee on Epigenetics

2016-2019 NYU Stem Cell Center, Scientific Advisory Board

2015-2018 Institute for Research in Immunology and Cancer Montreal, Scientific Advisory Board

2014-2015 International Society for Experimental Hematology (ISEH), Exec Committee

2014 Texas Medical Center; Strategic Planning: Steering Committee & Co-Chair of Committee on Stem Cells and Regenerative Medicine

2013-2014 International Society for Experimental Hematology (ISEH), President, 08/2013-08/2014

2014-2017 American Association of Hematology (ASH), Scientific Affairs Committee

2013-2017 California Institute for Regenerative Medicine Working Group

2013 American Association for Cancer Research (AACR), Education Committee

2012-2015 Keystone Symposia, Scientific Advisory Board

2012-2013 International Society for Experimental Hematology (ISEH), President Elect

2012 University of Minnesota Stem Cell Institute, External Review Panel

2012 Keystone Symposia Lead Organizer, “*The Life of a Stem Cell: From Birth to Death*”

2011-2014 The Blood Center of Wisconsin, Scientific Advisory Board,

2011-2012 International Society for Experimental Hematology (ISEH), Vice President

2011-2012 American Society of Hematology (ASH), Chair of Scientific Committee on Stem Cells

2011 Keystone Symposia, Ad Hoc Member of the Scientific Advisory Board

2010-2014 Advisory Panel, Intestinal Stem Cell Consortium, NIDDK

2010-present Advisory Panel, U. Minnesota T32, Dan Kaufman, PI

2010-present Advisory Panel, Upstate Medical University, NY, T32, W. Kerr PI

2010-2013 International Society for Experimental Hematology (ISEH), Board of Directors

2010-2011 American Society of Hematology (ASH), Vice Chair of Scientific Committee on Stem Cells

2010-2011 Advisory Panel, UTHSC P01, C. Walter PI

2009-2012 American Society of Hematology (ASH), Scientific Committee on Stem Cells

2009 Keystone Symposia Co-organizer, April, “*The Stem Cell Niche*”

2007 Leducq Foundation, Scientific Advisory Board, Transatlantic Network of Excellence for Cardiac Regeneration

2006-2009 International Society for Stem Cell Research (ISSCR), Chair, Audit Committee

2005-2007 NIH National Stem Cell Bank (NSCB), Advisory Board

2005 Keystone Symposia Lead Organizer, “*Stem Cells*”

2004-2007 International Society for Stem Cell Research (ISSCR), Board of Directors

2003-2005 International Society for Stem Cell Research (ISSCR), Chair, Planning Committee

2003 Keystone Symposia Co-organizer, “*From Stem Cells to Therapy*”  
 2002-2006 American Society for Hematology (ASH), Committee on Educational Affairs  
 1999-2001 International Society for Hematotherapy and Graft Engineering Committee on Mesenchymal/non-Hematopoietic Stem Cells

### *Journals*

2023-present Editorial Board, *Blood Cancer Discovery*  
 2020-present Editorial Board, *Aging and Cancer*  
 2020-present Editorial Board, *Cancer Cell*  
 2013-2020 Associate Editor, *Blood*  
 2008-present Reviewer, *PLoS Genetics*, *New England Journal of Medicine*  
 2008-2011 Editorial Board, *Blood*  
 2007-present Reviewer, *Cell Stem Cell*  
 Editorial Board, *Cell Stem Cell*  
 2007 Editorial Board, *Handbook of Adult & Fetal Stem Cells*, Bob Lanza, Editor, Academic Press  
 2005-present Reviewer, *PLoS Biology*  
 2004-present Reviewer, *Cell*, *Science*  
 2004-2012 Academic Editor, *PLoS Biology*  
 2004-2008 Senior Editor, *Stem Cells*  
 2003-2007 Editorial Board, *BioTechniques*  
 2003-2004 Editorial Board, *Stem Cells*  
 2003-present Reviewer, *Developmental Cell*, *Molecular Therapy*, *Nature Cell Biology*  
 2002-present Reviewer, *Lancet*, *Nature Medicine*, *Nature Genetics*, *Nature Biotechnology*, *Stem Cells*  
 2001-present Reviewer, *Immunity*, *Journal of Clinical Investigation*, *Nature*, *PNAS*  
 2000-present Reviewer, *Blood* (American Society of Hematology), *Experimental Hematology*, *FASEB Journal*, *Human Gene Therapy*

### *Grant Reviewing*

2023 HHMI Hanna H. Gray Fellows Program  
 2005-present NIH Ad Hoc Reviewer (various study sections)  
 2017-present Cancer Research UK, Ad Hoc Reviewer  
 2014-2017 NIH Study Section Chartered Member, Molecular and Cellular Hematology (MCH)  
 2013 Specialist Reviewer, The Ellison Medical Foundation  
 2013-2015 Standing Panelist, HHMI Medical Research Fellows Program  
 2008-2012 NIH Study Section Chartered Member, Cancer and Molecular Pathology (CAMP)  
 2011 NIDDK, "Special Emphasis Panel, Review R24 Applications  
 2011 Chair, NIGMS, Special Emphasis Panel for P01s on pluripotent stem cells  
 2011 Chair, NIA, Special Emphasis Panel for R01s on lineage tracing with age  
 2008-present National Institutes of Health, NIGMS, Ad Hoc Reviewer  
 2007-2010 CIRM, Standing Review Panel  
 2007 Tri-Institutional Stem Cell Initiative Reviews (New York)  
 2003-2006 Stem Cell Research Foundation  
 2002-present Wellcome Society, Ad Hoc Reviewer

2001-present National Institutes of Health, NHLBI, Ad Hoc Reviewer  
 2001-present National Institutes of Health, NIDDK, Ad Hoc Reviewer  
 1999-2000 Muscular Dystrophy Association, Ad Hoc Reviewer

*Institutional Service (Baylor College of Medicine)*

2023-present Associate Director for Basic Research, Dan L Duncan Comprehensive Cancer Center  
 2022-present Department of Pediatrics, Faculty Search Committee  
 2022 Department of Pediatrics, Chair Search  
 2021 Department of Molecular and Cellular Biology New Faculty Recruitment  
 2020 Department of Molecular and Cellular Biology New Faculty Recruitment  
 2020 Stem Cells and Regenerative Medicine Center Search  
 2019 Department of Molecular and Cellular Biology New Faculty Recruitment  
 2018-2019 Strategic Planning Committee  
 2018-present Internal Award Review Committee  
 2017-present Genetics Department Recruiting Committee  
 2016 Department of Molecular and Human Genetics, Mouse Genetics Search  
 2014-present Dan L. Duncan Cancer Center, Co-Leader of Cell Therapy Program  
 2014 Presidential Award for Innovative Research Committee  
 2013-2015 Stem Cells and Regenerative Medicine Search  
 2013, 2014 Chao Scholar Award Committee  
 2013-2014 Department of Molecular and Human Genetics, Chair Search  
 2011-2016 CPRIT Scholars Recruiting Committee  
 2011-2013 Graduate School Dean Search Committee  
 2011 Strategic Planning, Innovations Committee  
 2010 DeBaKey Award Committee  
 2009 Huffington Center for Aging, Director Search  
 2009 BCM Faculty Advisory Committee  
 2008-2010 McNair Scholars Search Committee  
 2007-2008 Leadership Institute Development Committee  
 2007-2008 Department of Molecular and Human Genetics, Chair Search  
 2007-2018 Flow Cytometry Core Oversight Committee  
 2006-2007 Department of Biochemistry, Chair Search  
 2006-2007 Operational Excellence, Faculty & Staff Productivity Task Force  
 2005-2010 Stem Cells and Regenerative Medicine Search  
 2005-2006 Cardiology Section Chief Search  
 2005-2006 Chair of Flow Cytometry Core Review Committee  
 2003 Strategic Planning Committee: People Committee  
 2002-2012 MERIT Program Executive Committee  
 2000-2004 Faculty Research & Fellowship Support Committee  
 2000-2010 Research Advisory Committee  
 1998-2002 Center for Cell and Gene Therapy, Basic Scientist Recruitment  
 1999-present MSTP Committee: M.D.-Ph.D. Operating Committee

## PUBLICATIONS

Total: 199. Over 37,000 citations. H Index (Google): 85

*Peer-Reviewed Publications* (Reverse chronology; 115 total)

1. Ramabadran R, Wang J, Reyes J, Guzman AG, Gupta S, Rosas C, Brunetti L, Gundry M, Tovy A, Long H, Gu T, Cullen AM, Tyagi S, Rux D, Kim JJ, Kyba M, Stossi F, Rau R, Takahashi K, Westbrook TF, and MA Goodell (2022) A Stem State Switch is Governed by DNMT3A-Coordinated Splicing. *Nature Cell Biology*. <https://doi.org/10.1038/s41556-023-01109-9>  
*This paper was accompanied by a commentary by Carmo-Fonseca (Nat Cell Bio, <https://doi.org/10.1038/s41556-022-01043-2>)*
2. Sandoval J, Ramabadran R, Stillson N, Sarah L, Fujimori D, Goodell MA and N Reich (2022) First-in-class allosteric inhibitors of DNMT3A disrupt protein-protein interactions and induce AML cell differentiation. *Journal of Medicinal Chemistry*. 65:10554-10566
3. Gu T, Hao D, Woo J, Huang TW, Guo L, Lin X, Guzman AG, Tovy A, Rosas C, Jeong M, Zhou Y, Deneen B, Huang Y, Li W, and MA Goodell (2022) The disordered N-terminal domain of DNMT3A recognizes H2AK119ub and is required for postnatal development. *Nature Genetics* 54:625-636  
*This paper was accompanied by a commentary by W Reik (Nat Gen, 54:537-538)*
4. Tovy A, Reyes JM, Zhang L, Huang YH, Rosas C, Daquinag AC, Guzman A, Ramabadran R, Chen CW, Gu T, Gupta S, Ortinau L, Park D, Cox AR, Rau RE, Hartig SM, Kolonin MG and Goodell MA (2022) Constitutive loss of DNMT3A causes morbid obesity through misregulation of adipogenesis. *eLife* 11:e72359
5. Huang YH, Chen CW, Sundaramurthy V, Słabicki M, Hao D, Watson CJ, Tovy A, Reyes JM, Dakhova O, Crovetti BR, Galonska C, Lee M, Brunetti L, Zhou Y, Tatton-Brown K, Huang Y, Cheng X, Meissner A, Valk PJ, Van Maldergem L, Sanders MA, Blundell JR, Li W, Ebert BL and MA Goodell (2022) Systematic profiling of DNMT3A variants reveals protein instability mediated by the DCAF8 E3 ubiquitin ligase adaptor. *Cancer Discovery* 12:1-16
6. Tovy A, Rosas C, Gaikwad AS, Medrano G, Zhang L, Reyes JM, Huang YH, Arakawa T, Kurtz K, Conneely SE, Guzman AG, Aguilar R, Gao A, Chen CW, Kim JJ, Carter MT, Lasa-Aranzasti A, Valenzuela I, Van Maldergem L, Brunetti L, Hicks MJ, Marcogliese AN, Goodell MA and RE Rau (2022) Perturbed hematopoiesis in individuals with germline DNMT3A overgrowth Tatton-Brown-Rahman syndrome. *Haematologica* 107:887-898
7. Goldberg L, Negi V, Chung Y, Onozawa M, Zhu YJ, Walker RL, Pierce R, Patel DP, Krausz KW, Gonzalez FJ, Goodell MA, Rodriguez BA, Meltzer PS and PD Aplan (2021) Mutant Idh2 cooperates with a NUP98-HOXD13 fusion to induce early immature thymocyte precursor ALL. *Cancer Research* 81:5033-46
8. Sportoletti P, Sorcini D, Guzman AG, Reyes JM, Stella A, Marra A, Sartori S, Brunetti L, Rossi R, Del Papa B, Adamo FM, Pianigiani G, Betti C, Scialdone A, Guarente V, Spinuzzi G, Tini V, Martelli MP, Goodell MA and B Falini (2021) Bcor deficiency perturbs erythromegakaryopoiesis and cooperates with Dnmt3a loss in acute erythroid leukemia onset in mice. *Leukemia* 35:1949-1963
9. Tovy A, Reyes JM, Gundry MC, Brunetti L, Lee-Six H, Petljak M, Park HJ, Guzman AG, Rosas C, Jeffries AR, Baple E, Mill J, Crosby AH, Sency V, Xin B, Machado HE, Castillo D, Weitzel JN, Li W, Stratton MR, Campbell PJ, Wang H, Sanders MA and MA Goodell (2020) Tissue-Biased Expansion of DNMT3A-Mutant Clones in a Mosaic Individual Is Associated with Conserved Epigenetic Erosion. *Cell Stem Cell* 27:326-335.e4  
*This paper was accompanied by a commentary by V Sankaran (Cell Stem Cell 27:195-7)*
10. Zhang X, Jeong M, Huang X, Wang XQ, Wang X, Zhou W, Shamim MS, Gore H, Himadewi P, Liu Y, Bochkov ID, Reyes J, Doty M, Huang YH, Jung H, Heikamp E, Presser Aiden A, Li W, Su J, Lieberman Aiden E and MA Goodell (2020) Large DNA Methylation Nadirs Anchor

Chromatin Loops Maintaining Hematopoietic Stem Cell Identity. *Molecular Cell* 78:506-521.e6  
*This paper was accompanied by cover art*

11. Guo L, Li J, Zeng H, Guzman AG, Li T, Lee M, Zhou Y, Goodell MA, Stephan C, Davies PJA, Dawson MA, Sun D and Y Huang (2020) A Combination Strategy Targeting Enhancer Plasticity Exerts Synergistic Lethality Against BETi-Resistant Leukemia Cells. *Nature Communications* 11:740
12. Choi BK, Fujiwara K, Dayaram T, Darlington Y, Dickerson J, Goodell MA and LA Donehower (2020) WIP1 dephosphorylation of p27Kip1 Serine 140 destabilizes p27Kip1 and reverses anti-proliferative effects of ATM phosphorylation. *Cell Cycle* 19:479-491
13. Zhang X, Wang X, Wang XQD, Su J, Putluri N, Zhou T, Qu Y, Jeong M, Guzman AG, Rosas C, Huang Y, Sreekumar A, Li W and MA Goodell (2020) Dnmt3a Loss and Ldh2 Neomorphic Mutations Mutually Potentiate Malignant Hematopoiesis. *Blood* 135:845-856
14. Lavery LA, Ure K, Wan YW, Luo C, Trostle AJ, Wang W, Jin H, Lopez J, Lucero J, Durham MA, Castanon R, Nery JR, Liu Z, Goodell MA, Ecker JR, Behrens and HY Zoghbi (2020) Losing Dnmt3a dependent methylation in inhibitory neurons impairs neural function by a mechanism impacting Rett syndrome. *eLife* 9:e52981
15. Zeng H, He H, Guo L, Li J, Lee M, Han W, Guzman AG, Zang S, Zhou Y, Zhang X, Goodell MA, King KY, Sun D and Y Huang (2019) Antibiotic treatment ameliorates Ten-eleven translocation 2 (TET2) loss-of-function associated hematological malignancies. *Cancer Lett* 467:1-8
16. Sandoval JE, Huang YH, Muise A, Goodell MA and NO Reich (2019) Mutations in the DNMT3A methyltransferase in Acute Myeloid Leukemia Patients Cause Both Loss and Gain of Function and Differential Regulation by Protein Partners. *J Biol Chem* 294:4898-4910
17. Luo C, Lee QL, Wapinski O, Castanon R, Nery JR, Mall M, Kareta MS, Cullen SC, Goodell MA, Chang HY, Wernig M and JR Ecker (2019) Global DNA methylation remodeling during direct reprogramming of fibroblasts to neurons. *eLife* 8:e40197
18. Hsu JI, Dayaram T, Tovy A, De Braekeleer ED, Jeong M, Wang F, Zhang J, Heffernan TP, Gera S, Kovacs JJ, Marszalek JR, Bristow C, Yan Y, Garcia-Manero G, Kantarjian H, Vassiliou G, Futreal PA, Donehower LA, Takahashi K and MA Goodell (2018) PPM1D Mutations Drive Clonal Hematopoiesis in Response to Cytotoxic Chemotherapy. *Cell Stem Cell* 23:700-713.e6  
*This paper was accompanied by cover art, an invited video abstract, and a commentary by McNerney and LeBeau (Cell Stem Cell 23: 634-635)*
19. Brunetti L, Gundry MC, Sorcini D, Guzman AG, Huang YH, Ramabadran R, Gionfriddo I, Mezzasoma F, Milano F, Nabet B, Buckley DL, Kornblau SM, Lin CY, Sportoletti P, Martelli MP, Falini B and MA Goodell (2018) Mutant NPM1 maintains the leukemic state through HOX expression. *Cancer Cell* 34:499-512.e9  
*This paper was accompanied by cover art and a commentary by S Armstrong (Cancer Cell 34: 355-357)*
20. Su J, Huang YH, Cui X, Wang X, Zhang X, Lei Y, Xu J, Lin X, Chen K, LV J, Goodell MA and W Li (2018) Homeobox Gene Activation by Pan-Cancer DNA Hypermethylation. *Genome Biology* 19:108
21. Gu T, Lin X, Cullen SM, Luo M, Jeong M, Estecio M, Shen J, Hardikar S, Sun D, Su J, Rux D, Guzman AG, Lee M, Qi LS, Chen JJ, Kyba M, Huang Y, Chen T, Li W and MA Goodell (2018) DNMT3A and TET1 cooperate to regulate promoter epigenetic landscapes in mouse embryonic stem cells. *Genome Biology* 19:88
22. Jeong M, Park HJ, Celik H, Ostrander EL, Reyes JM, Guzman AG, Rodriguez B, Lei Y, Lee Y, Ding L, Guryanova OA, Li W, Goodell MA and GA Challen (2018) Loss of Dnmt3a Immortalizes Hematopoietic Stem Cells in vivo. *Cell Reports* 23:1-10
23. Tan Q, Brunetti L, Rousseaux MWC, Lu HC, Wan YW, Revelli JP, Liu Z, Goodell MA and HY Zoghbi (2018) Loss of Capicua in Hematopoietic Stem Cells Causes T-cell Malignancies in Mice. *PNAS* 115:E1511-E1519

24. Huang YH, Su J, Lei Y, Brunetti L, Gundry MC, Zhang X, Jeong M, Li W and MA Goodell (2017) DNA epigenome editing using CRISPR-Cas SunTag-directed DNMT3A. *Genome Biology* 18:176
25. Lei Y, Zhang X, Su J, Jeong M, Gundry MC, Huang YH, Zhou Y, Li W and MA Goodell (2017) Targeted DNA methylation in vivo using an engineered dCas9-MQ1 fusion protein. *Nature Communications* 8:16026
26. Gundry MC, Brunetti L, Lin A, Mayle A, Kitano A, Wagner D, Hsu JI, Hoegenauer JA, Rooney C, Goodell MA and D Nakada (2016) Highly Efficient Genome Editing of Murine and Human Hematopoietic Progenitor Cells by CRISPR/Cas9. *Cell Reports* 17:1453-1461
27. Karlstaedt A, Zhang X, Vitrac H, Harmancey R, Vasquez H, Wang JH, Goodell MA and H Taegtmeyer (2016) Oncometabolite D-2-hydroxyglutarate Impairs Alpha-Ketoglutarate Dehydrogenase and Contractile Function in Rodent Heart. *PNAS* 113:10436-41
28. Zhang X, Su J, Jeong M, Ko M, Huang Y, Park HJ, Guzman AG, Lei Y, Huang YH, Rao A, Li W and MA Goodell (2016) DNMT3A and TET2 Compete and Cooperate to Repress Lineage-Specific Factors in Hematopoietic Stem Cells. *Nature Genetics* 48:1014-23  
*This paper was featured in Cancer Discovery, Research Watch.*
29. Rau RE, Rodriguez B, Luo M, Jeong M, Rosen A, Rogers JH, Campbell CA, Daigle S, Deng L, Song YC, Sweet S, Chevassut T, Andreeff M, Kornblau S, Li W and MA Goodell (2016) DOT1L as a Therapeutic Target for the Treatment of DNMT3A-Mutant Acute Myeloid Leukemia. *Blood* 128:971-81
30. Yang L, Rodriguez B, Mayle A, Park HJ, Lin X, Luo M, Jeong M, Curry CV, Kim SB, Ruau D, Zhang X, Zhou T, Zhou M, Rebel VI, Challen GA, Gottgens B, Lee JS, Rau R, Li W and MA Goodell (2016) DNMT3A loss drives enhancer hypomethylation in FLT3-ITD-associated leukemias. *Cancer Cell* 29:922-934
31. Eckstein OS, Wang L, Punia JN, Kornblau S, Andreeff M, Wheeler DA, Goodell MA and RE Rau (2016) Mixed-Phenotype Acute Leukemia (MPAL) Exhibits Frequent Mutations in DNMT3A and Activated Signaling Genes. *Experimental Hematology* 44:740-4
32. An J, Gonzalez-Avalos E, Chawla A, Jeong M, Lopez-Moyado IF, Li W, Goodell MA, Chavez L, Ko M and A Rao (2015) Acute loss of TET function results in aggressive myeloid cancer in mice. *Nature Communications* 6:10071
33. Gibson BW, Boles NC, Souroullas GP, Herron AJ, Fraley JK, Schwiebert RS, Sharp JJ and MA Goodell (2015) Comparison of Cesium-137 and X-ray Irradiators by Using Bone Marrow Transplant Reconstitution in C57BL/6J Mice. *Comparative Medicine* 65:165-72
34. Wang J, Wegener JE, Huang TW, Sripathy S, De Jesus-Cortes H, Xu P, Tran S, Knobbe W, Leko V, Britt J, Starwalt R, McDaniel L, Ward CS, Parra D, Newcomb B, Lao U, Nourigat C, Flowers DA, Cullen S, Jorstad NL, Yang Y, Glaskova L, Vigneau S, Kozlitina J, Yetman MJ, Jankowsky JL, Reichardt SD, Reichardt HM, Gärtner J, Bartolomei MS, Fang M, Loeb K, Keene CD, Bernstein I, Goodell MA, Brat DJ, Huppke P, Neul JL, Bedalov A and AA Pieper (2015) Wild-type Microglia do not Reverse Pathology in Mouse Models of Rett Syndrome. *Nature* 521:E1-4
35. King KY, Matatall KA, Shen CC, Goodell MA, Swierczek SI and JT Prchal (2015) Comparative Long-term Effects of Interferon and Hydroxyurea on Human Hematopoietic Progenitor Cells. *Experimental Hematology* 43:912-918.e2
36. Luo M, Jeong M, Sun D, Park HJ, Rodriguez B, Xia Z, Yang L, Zhang X, Sheng K, Darlington GJ, Li W and MA Goodell (2015) Long Non-coding RNAs Control Hematopoietic Progenitor Cell Function. *Cell Stem Cell* 16:426-38
37. Mayle A, Yang L, Rodriguez B, Zhou T, Chang E, Curry CV, Challen GA, Li W, Wheeler D, Rebel VI and MA Goodell (2015) Dnmt3a Loss Predisposes Murine Hematopoietic Stem Cells to Malignant Transformation. *Blood* 125:629-38
38. Challen GA, Sun D, Mayle A, Jeong M, Luo M, Rodriguez B, Mallaney C, Celik H, Yang L, Xia Z, Cullen S, Berg J, Zheng Y, Darlington GJ, Li W and MA Goodell (2014) Dnmt3a and Dnmt3b have Overlapping and Distinct Functions in Hematopoietic Stem Cells. *Cell Stem Cell* 15:350-

*This paper was a featured cover article.*

*This paper has had over 300 citations.*

39. Sun D, Luo M, Jeong M, Rodriguez B, Xia Z, Hannah R, Wang H, Le T, Faull KF, Chen R, Gu H, Bock C, Meissner A, Göttgens B, Darlington GJ, Li W and MA Goodell (2014) Epigenomic Profiling of Young and Aged HSCs Reveals Concerted Changes During Aging that Reinforce Self-renewal. ***Cell Stem Cell*** 14:673-88  
*This paper has had over 500 citations.*
40. Sun D, Xi Y, Rodriguez B, Park HJ, Tong P, Jeong M, Goodell MA and W Li (2014) MOABS: Model Based Analysis of Bisulfite Sequencing Data. ***Genome Biology*** 15:R38
41. Rogers JT, King KY, Brett JO, Cromie MJ, Charville GW, Maguire KK, Brunson C, Mastey N, Liu L, Tsai CR, Goodell MA and TA Rando (2014) mTORC1 Controls the Adaptive Transition of Quiescent Stem Cells from Go to G(Alert). ***Nature*** 510:393-6  
*This paper has had over 500 citations.*
42. Jeong M, Sun D, Luo M, Huang Y, Challen GA, Rodriguez B, Zhang X, Chavez L, Wang H, Hannah R, Kim SB, Yang L, Ko M, Chen R, Gottgens B, Lee SJ, Gunaratne P, Godley LA, Darlington GJ, Rao A, Li W and MA Goodell (2013) Large Conserved Domains of Low DNA Methylation Maintained by Dnmt3a. ***Nature Genetics*** 46:17-23
43. Kim SJ, Zhao H, Hardikar S, Singh AK, Goodell MA and T Chen (2013) A DNMT3A Mutation Common in AML Exhibits Dominant-negative Effects in Murine ES Cells. ***Blood*** 122:4086-9
44. Shi FT, Kim H, Lu W, He Q, Liu D, Goodell MA, Wan M and Z Songyang (2013) Ten-eleven Translocation 1 (Tet1) is Regulated by O-linked N-acetylglucosamine Transferase (Ogt) for Target Gene Repression in Mouse Embryonic Stem Cells. ***J Biol Chem*** 288:20776-84
45. Kahle JJ, Souroullas GP, Yu P, Zohren F, Lee Y, Shaw CA, Zoghbi HY and MA Goodell (2013) Atxn1L is a Novel Regulator of Hematopoietic Stem Cell Quiescence. ***PLoS Genetics*** 9:e1003359
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#### Multimedia/Opinion Pieces

- 2018 *Cell Stem Cell* video abstract Accompanied by Hsu et al. [youtu.be/J04H6QIr3ag](https://youtu.be/J04H6QIr3ag)
- 2010 *Cell Stem Cell* video abstract Accompanied Challen et al. <http://www.youtube.com/watch?v=0ZWbmEZNWzg>
- 2010 “Ruling puts research at Risk” Editorial in Houston Chronicle <http://www.chron.com/dispatch/story.mpl/editorial/outlook/7196456.html>
- 2008 “State demands strain US stem cell scientists” Opinion on state funding efforts. *Nature Reports Stem Cells* <http://www.nature.com/stemcells/2008/0801/080103/full/stemcells.2007.134.html>

#### Interviews/Profiles

- 2023 ISEH 2023 Donald Metcalf Award, awardee video interview with Els Mansell
- 2020 Epigenetics Podcast Interview with Active Motif’s Producer, Dr. Stefan Dillinger *Epigenetic Regulation of Stem Cell Self-renewal and Differentiation (Margaret “Peggy” Goodell)* <https://www.activemotif.com/podcasts#peggy-goodell>
- 2018 Interview for Keystone Cell Competition Meeting, [bit.ly/KSgoodell](http://bit.ly/KSgoodell)
- 2013 Interviews with the Editor, as Incoming Associate Editor of the journal *Blood* <http://www.youtube.com/watch?v=vLGtjimtDHA>
- 2013 American Society of Hematology (ASH) Honors Margaret A. Goodell, PhD with 2012 William Dameshek Prize, <http://www.hematology.org/News/2012/8883.aspx>
- 2013 European Hematology Association interview, <http://www.ehaweb.org/education-science/online-learning-tools/podcasts/?start=5>
- 2012 Interview as incoming International Society for Experimental Hematology (ISEH) Vice President, <http://www.iseh.org/blogpost/611221/137377/Meet-Peggy-Goodell-Ph-D--ISEH-vice-president-from-Baylor-College-of-Medicine-Houston-TX-USA>
- 2011 The Academy of Medicine, Engineering and Science of Texas (TAMEST), Award Recipient Profiles, <http://www.tamest.org/programs/2011recipients.php>

- 2009 Balancing Work and Life: A Conversation with Margaret “Peggy” Goodell in Stem Cells, by M. Lako and S. Daher, <http://onlinelibrary.wiley.com/doi/10.1002/stem.105/full>
- 2008 Mastering Stem Cells, by Emily Carlson. In *Findings* (NIGMS), <http://publications.nigms.nih.gov/findings/mar08/mastering.asp>

### SCIENTIFIC PRESENTATIONS (since 2002, in reverse chronology)

- 2023 Gulf Coast Consortia, Keck Seminar, Rice University’s BioScience Research Collaborative, Houston, TX, December 2023
- EpiCypher: Biological and Clinical Frontiers in Epigenetics, Cancun, MX, November 2023
- European School of Haematology (ESH), 6th International Conference on Acute Myeloid Leukemia, Estoril, Portugal, October 2023
- 127th International Titisee Conference: Somatic Mosaicism, Black Forest, Germany, October 2023
- Cambridge Cancer Epigenetics Club (CCEC), Keynote, Cambridge, UK, October 2023 (virtual)
- 11th Conference of the German Stem Cell Network (GSCN), Keynote, Ulm, Germany, September 2023
- Behr Symposium on Stem Cells and Cancer, Heidelberg, Germany, September 2023
- International Society for Experimental Hematology (ISEH), Scientific Meeting, New York, NY, August 2023
- Keynote speaker, FASEB Hematological Malignancies Conference, Southbridge, MA, August 2023
- Cold Spring Harbor Laboratory, 87th Symposium on Stem Cells, Cold Spring Harbor, NY, May/June 2023
- Novo Nordisk Fonden, Copenhagen Bioscience Conference: Stem Cell Niche, Copenhagen, Denmark, May 2023
- University of Miami, 3rd Biennial Leukemia Symposium, Miami, FL, April 2023
- UT MD Anderson Cancer Center, Smith Family Foundation Distinguished Lecture, Houston, TX, March 2023
- Normal/Malignant Hematopoiesis and Novel Therapies for Hematologic Malignancies Symposium, Waimea, HI, February 2023
- Keystone Symposia, Stem Cells: Advances in the Application of Stem Cells and their Role in vivo, Keystone, CO, February 2023
- University of Hawaii Cancer Center, XIV Annual Weinman Symposium, Honolulu, HI, January 2023
- 2022 Keynote speaker, Duke Cancer Institute (DCI) Scientific Retreat, Durham, NC, December 2022
- University of Miami, 5th Biennial Miami Epigenetics and Cancer Symposium, Miami, FL, November 2022
- Gairdner Foundation Symposium, Toronto, Canada, October 2022
- Chinese Academy of Medical Sciences, 8<sup>th</sup> International Forum on Stem Cells (IFSC), Beijing, China, October 2022 (virtual)
- American Association for Cancer Research (AACR), Special Conference on Cancer Epigenomics, Washington, DC, October 2022
- American Association for Cancer Research (AACR) & Japan Cancer Association (JCA), Joint Session at the JCA Annual Meeting, September 2022 (virtual)
- Aspen Cancer Conference, Aspen, CO, July 2022
- 13th International Workshop on Molecular Aspects of Myeloid Stem Cell Development and Leukemia, Cincinnati, OH, May 2022

- Fox Chase Cancer Epigenetics Institute (CEI) Virtual Training, “From Paper to the Scientist”  
May 2022 (virtual)
- Dana-Farber, Seminars in Oncology, Nicola David-Pinedo Family Lecture, April 2022 (virtual)
- Ohio Academy of Science (OAS), Annual Meeting: Women In STEM Panel, April 2022 (virtual)
- Vanderbilt University, Medicine Grand Rounds, April 2022 (virtual)
- Oregon Health & Science University, Basic & Translational Sciences (BTS) Seminar Series,  
March 2022 (virtual)
- University of Pennsylvania, Distinguished Seminar Series, February 2022 (virtual)
- Ohio State University Comprehensive Cancer Center (OHUCCC), James Grand Rounds,  
February 2022 (virtual)
- 2021 3rd International Conference on Aging and Cancer: the impact of aging on clonal evolution,  
December 2021 (virtual)
- San Diego Chromatin Club (SDCC), Seminar Series, December 2021 (virtual)
- American Association for Cancer Research (AACR) Annual Meeting, August 2021 (virtual)
- University of Texas, San Antonio, TX, UT Health SA Barshop Seminar Series, May  
2021(virtual)
- British Columbia Cancer Research Centre (BCCRC) Seminar Series, May 2021 (virtual)
- Keystone Symposia on Hematopoiesis, Big Sky, MT, April 2020 (moved to Breckenridge, CO,  
April 2021 (converted to virtual)
- American Association for Cancer Research (AACR) Annual Meeting, San Diego, CA, April 2020  
(moved to 2021, converted to virtual)
- Brigham Women’s Hospital, Hematology Grand Rounds Seminar, April 2021 (virtual)
- Memorial Sloan-Kettering, CHM Science in Focus Seminar Series, March 2021 (virtual)
- National Institutes of Health, NIA CHIP Workshop, March 2021 (virtual)
- Boston Children's/Dana-Farber Pediatric Hematology Seminar Series, March 2021 (virtual)
- Fox Chase Cancer Center Cancer Epigenetics Institute Virtual Symposium, March 2021 (virtual)
- University of California, Irvine, Trainee Virtual Seminar Series, February 2021 (virtual)
- 2020 American Society of Hematology (ASH) Annual Meeting and Exposition, Scientific Program  
Session, San Diego, CA, December 2020 (virtual)
- Columbia University, Stem Cell Initiative Seminar Series, New York, NY, November 2020  
(virtual)
- UT Southwestern, Regenerative Medicine Seminar Series, Dallas, TX, November 2020 (virtual)
- Chicago Biomedical Consortium (CBC) Annual Symposium on DNA Methylation, Chicago, IL  
October 2020 (virtual)
- Edward P. Evans Foundation, EvansMDS MDS Research Summit on Epigenetics and Stem Cell  
Functions, October 2020 (virtual)
- Mechanisms of Aging on Stem Cells, Cold Spring Harbor Laboratory, NY, September 2020  
(virtual)
- Samuel Waxman Annual Scientific Review, New York, NY, September 2020 (virtual)
- International Society for Stem Cell Research (ISSCR) 2020 Annual Meeting, Tobias Award  
Lecture, June 2020 (virtual)
- Copenhagen Bioscience Conference, The Stem Cell Niche, Copenhagen, Denmark, May 2020  
(canceled)
- European School of Haematology (ESH) 9<sup>th</sup> Annual Translational Research Conference,  
Budapest, Hungary, May 2020 (canceled)
- Fred Hutchinson Cancer Research Center, Clement A. Finch Visiting Professor, Seminar Series,  
Hematology Grand Rounds, Seattle, WA, February 2020

- Edgewater Hotel, Clement A. Finch Visiting Professor, Seminar Series, Blood Club, Seattle, WA, February 2020
- University of Washington, Medical Center, Clement A. Finch Visiting Professor, Seminar Series, Department of Medicine Grand Rounds, Seattle, WA, February 2020
- 2019 Frontiers in Cancer Science, Singapore, November 2019
- European School of Haematology (ESH), Acute Myeloid Leukemia: Advances in Biology and Treatment, Estoril, Portugal, October 2019
- Northwestern University, BMG Seminar Series, October 2019
- Blood Disorders: Models, Mechanisms and Therapies, Boston, MA, September 2019
- Usha Mahajani Symposium, Salk Institute, San Diego, CA, September 2019
- FASEB Hematologic Malignancies Conference, Snowmass, CO, July 2019
- Van Andel Research Institute, Seminar, June 2019
- Nature Conference on Aging and Disease, Rotterdam, The Netherlands, June 2019
- Massachusetts General Hospital, Cancer Center, Seminar, May 2019
- Gordon Research Conference on Epigenetics and Cancer, Lucca (Barga), Italy, April 2019
- Keystone Conference Cell Competition in Development and Disease: Organizer and speaker, Tahoe City, CA, February 2019
- US Japan Hematology Conference, Hawaii, February 2019
- 2018 Edward P. Evans Foundation, MDS Research Summit, October 2018
- University of Massachusetts Dept of Cancer Biology, Seminar, October 2018
- Cancer Center Seminar Series, Toronto, Canada, October 2018
- International Behr Symposium on Stem Cells and Cancer, Heidelberg, Germany, September 2018
- Cancer and Stem Cells, Les Treilles, France, September 2018
- MD Anderson Cancer Center, Distinguished Lecture Series in Epigenetics, September 2018
- International Society for Experimental Hematology (ISEH), Plenary Session, August 2018
- Japanese Society of Hematology, Epigenetics Symposium, July 2018
- Nachman Lecture, University of Chicago, June 2018
- International Workshop on Molecular Aspects of Myeloid Stem Cell Development, Cincinnati, OH, May 2018
- 2017 American Society of Hematology (ASH) Presidential Symposium, December 2017
- Purdue University, New Horizons Symposium, November 2017
- CPEH Symposium on Integrative Epigenetics, Baylor College of Medicine, October 2017
- Edward P. Evans Foundation, MDS Meeting, October 2017
- Stem Cell Institute, Cambridge, UK, July 2017
- European Haematology Association (ESH), Madrid, Spain, July 2017
- International Society for Stem Cell Research (ISSCR), Till and McCulloch Lecture, Boston, MA, June 2017
- Laboratory of Molecular Biology, Medical Research Council, Cambridge, UK, June 2017
- EMBL, Monterotondo, Italy, May 2017
- St Louis Hospital, Paris, France, May 2017
- Institute Curie, Paris, France, May 2017
- Hospital Erasme, Brussels, Belgium, April 2017
- Aging Cell Conference, Babraham, United Kingdom, April 2017
- Genetics and Epigenetics in Neoplasia, Gordon Conference, Barga, Italy, March 2017
- Stem Cells and Cancer, Gordon Conference, Barga, Italy, February 2017

- C.R. Brupbacher Symposia, Zurich Switzerland, February 2017  
 Stem Cell Institute, Cambridge University, UK, February 2017  
 Crick Institute, London, UK, January 2017
- 2016 Weatherall Institute of Molecular Medicine, Oxford, UK, November 2016  
 Intl. Behr Symposium on Stem Cells and Cancer. Heidelberg, Germany, September 2016  
 Cambridge Stem Cell International Symposium, Cambridge, UK, July 2016  
 Keystone Symposia, Epigenetic and Metabolic Regulation of Aging and Aging-Related Diseases, Santa Fe, NM, May 2016  
 Intl. Workshop on Molecular Aspects of Myeloid Stem Cell Development and Leukemia, Cincinnati, OH, May 2016  
 Samuel Waxman Annual Scientific Review, New York, NY, May 2016  
 UT Health Science Center, Department of Biochemistry & Molecular Biology, April 2016  
 Keck School of Medicine, USC, Distinguished Speaker Seminar Series, April 2016  
 Boston Children's Hospital Seminar Series, March 2016  
 Cancer Research UK, Cambridge, UK, Seminar Series, February 2016  
 Sanger Institute, Cambridge, UK. Seminar Series, February 2016
- 2015 American Molecular Pathology Society, Austin, TX, November 2015  
 Center for Commercialization of Regenerative Medicine, Till & McCulloch Meetings, Toronto, Ontario, Canada, October 2015  
 St. Jude Children's Research Hospital, Department of Hematology, Biomedical Symposium, Memphis, TN, October 2015  
 Japanese Society of Hematology, Annual Meeting, Kanazawa, Japan, October 2015  
 The Institute of Medical Science University of Tokyo, Tokyo, Japan, October 2015  
 International Society for Experimental Hematology (ISEH) Scientific Meeting, Kyoto, Japan, September 2015  
 Walter and Eliza Hall Institute of Medical Research, Centenary Scientific Symposium, Melbourne, Australia, August 2015  
 Federation of American Societies for Experimental Biology (FASEB) Science Research Conferences: Transcription, Chromatin and Epigenetics, West Palm Beach, FL, July 2015  
 VII. Else Kröner-Fresenius (EKF) Symposium on Adult Stem Cells in Aging, Diseases and Cancer, Erice, Sicily, Italy, June 2015  
 Samuel Waxman Annual Scientific Review, New York, NY, May 2015  
 Vanderbilt University, Ingram Cancer Center, Nashville, TN, April 2015  
 Edward P. Evans Foundation, MDS Discovery and Translational Science Summit, Arlington, VA, April 2015  
 Keystone Symposium on DNA Methylation, Keystone, CO, April 2015  
 Memorial Sloan Kettering Cancer Center (MSKCC) US/Japan Meeting on Malignant Hematopoiesis and Stem Cells, Big Island, HI, March 2015  
 Keystone Symposia on Transcriptional and Epigenetic Influences on Stem Cell States, Steamboat Springs, CO, March 2015  
 Stem Cells and Cancer, Gordon Research Conference, Ventura Beach, CA, February 2015  
 Keystone Symposium on Hematopoiesis, Keystone, CO, February 2015  
 UC Santa Barbara, Department of Molecular Science and Engineering, Santa Barbara, CA, February 2015  
 7<sup>th</sup> Biennial Workshop, Clinical Translation of Epigenetics in Cancer Therapy, St. Augustine, FL, January 2015

- University of Colorado Denver, Denver, CO, January 2105
- Clinical Translation of Epigenetics in Cancer, St Augustine, FL, January 2015
- Elsevier Miami Winter Symposium, Towards Personalized Cancer Medicine, Miami, FL, January 2015
- NIDDK Workshop on Aging in Hematopoiesis, January 2015
- University of Miami, Sylvester Cancer Center, January 2015
- University of California, San Francisco, Biomedical Sciences Seminar Series, January 2015
- 2014 American Society of Hematology (ASH), Scientific Session, San Francisco, CA, December 2014
- Memorial Sloan Kettering Cancer Center, New York, NY, November 2014
- Italian Hematology Society Keynote Speaker, Rimini, Italy, October 2014
- Hang Zhou, China, October 2014
- Key State Laboratory, Tianjin, China, October 2014
- University of Pennsylvania Perelman School of Medicine, Department of Cell and Developmental Biology, Philadelphia, PA, September 2014
- Post-Translational Modifications in Cell Signaling, Copenhagen, Denmark, September 2014
- Lund University, Department of Hematology, Lund, Sweden, September 2014
- International Society for Experimental Hematology (ISEH) Scientific Meeting, Montreal, Quebec, Canada, August 2014
- Cambridge Institute for Medical Research, Cambridge, UK, July 2014
- The Babraham Institute, Cambridge, UK, July 2014
- University of Pennsylvania, Philadelphia, PA, June 2014
- Van Andel Research Institute, Grand Rapids, MI, June 2014
- Cincinnati Children's Hospital Medical Center, Tenth International Workshop on Molecular Aspects of Myeloid Development and Leukemia, Cincinnati, OH, May 2014
- University of Wisconsin-Madison, 9<sup>th</sup> Annual Wisconsin Stem Cell Symposium, from Stem Cell to Blood, Madison, WI, April 2014
- Max Planck Institute of Immunobiology & Epigenetics, Freiburg, Germany, April 2014
- Columbia University, Keynote Speaker, Columbia Stem Cell Day, NY, NY, March-April 2014
- Keystone Symposium on Cancer Epigenetics, Santa Fe, NM, February 2014
- Cleveland Clinic, Cleveland, OH, January 2014
- 2013 St. Jude Children's Hospital, Danny Thomas Lecture, Memphis, TN, November 2013
- The FELS Institute, Temple University, Philadelphia, PA, November 2013
- University of Utah School of Medicine, Benning Lecture, Salt Lake City, UT, October 2013
- Shanghai Institute of Hematology, Shanghai, China, October 2013
- International Society for Stem Cell Research (ISSCR) Regional Conference, Florence, Italy, September 2013
- Federation of American Societies for Experimental Biology (FASEB) Science Research Conferences: Mechanisms of Immune Cell Development and Function Steamboat Springs, CO, July 2013
- Else Kroner-Fresenius Symposium on Adult Stem Cells in Aging, Eisenach, Germany, May 2013
- Samuel Waxman Foundation Symposium, New York, NY, May 2013
- University of Michigan, Detroit, MI, May 2013
- NIH, National Cancer Institute, Epigenetic Regulatory Mechanisms, Bethesda, MD, April 2013
- Gordon Research Conferences Annual Meeting: Stem Cells and Cancer, Les Diablerets, Switzerland, April 2013

- C.R. Brupbacher Symposium, Zurich, Switzerland, February 2013
- University of Washington, Seattle, WA, February 2013
- Stanford University, Palo Alto, CA, February 2013
- 2012 American Society of Hematology (ASH) Annual Meeting and Exposition, Scientific Program Session, Atlanta, GA, December 2012
- Massachusetts Institute of Technology, Biology Colloquium, Cambridge, MA, October 2012
- ISCC Meeting Keynote Speaker, University of Pittsburgh, Pittsburgh, PA, October 2012
- Rochester University Cancer Center, Rochester, NY, October 2012
- Mount Sinai School of Medicine, Frontiers in Cancer Lecture Series, NY, NY, October 2012
- Wilsede Meeting, XIX – Modern Trends in Human Leukemia and Cancer, Wilsede, Germany, June 2012
- Workshop on Molecular Aspects of Myeloid Development and Leukemia, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, May 2012
- UT MD Anderson Cancer Center, Virginia Harris Cockrell Cancer Research Center, Smithville, TX, April 2012
- Keystone Symposium: The Life of a Stem Cell: From Birth to Death, Olympic Valley, CA, March 2012
- Indiana University School of Medicine, Indianapolis, IN, March 2012
- Baylor College of Medicine, 12<sup>th</sup> Annual James K. Alexander Medical Student Research Symposium, Keynote Speaker, Houston, TX, March 2012
- University of Pennsylvania Immunology Colloquium, Philadelphia, PA, February 2012
- National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK) Workshop, Washington, DC, February 2012
- Keystone Symposia on Hematopoiesis, Steamboat Springs, CO, January 2012
- 2011 American Society of Hematology (ASH) Annual Meeting and Exposition, Scientific Program Session and Meet-the-Expert Session, San Diego, CA, December 2011
- International Symposium on Stem Cells and Regenerative Medicine, Mexico City, Mexico, November 2011
- Cancer Prevention & Research Institute of Texas, Innovations in Cancer Prevention and Research Conference, Austin, TX, November 2011
- Cornell University, Department of Molecular Biology & Genetics, Ithaca, NY, September 2011
- International Society for Hematology and Stem Cells Vancouver, BC, Canada, August 2011
- International Society for Stem Cell Research (ISSCR) Annual Meeting, June 2011
- Else Kroner-Fresenius Symposium on Stem Cells and Aging, Reischensburg, Germany, May 2011
- Max Delbrück Lecture, MDC Berlin, Germany, May 2011
- American Association of Immunologists Annual Meeting, San Francisco, CA, May 2011
- Keystone Symposia on Hematopoiesis, Big Sky, MT, April 2011
- UT Southwestern, Department of Developmental Biology, Dallas, TX, April 2011
- Keystone Symposia on Stem Cells in Development, Tissue Homeostasis and Disease. Santa Fe, NM, February 2011
- Baylor College of Medicine, Department of Virology and Microbiology, Houston, TX, February 2011
- University of California-San Diego, San Diego, CA, January 2011
- 2010 University of Texas-San Antonio, Stem Cell Conference, San Antonio, TX, October 2010
- The Forbeck Scholar Retreat, Lake Geneva, WI, September 2010

- The Ellison Medical Foundation, Colloquium on the Biology of Aging, Woods Hole, MA, August 2010
- Annual ICSC Conference, Dresden, Germany, July 2010
- NIH, National Institute on Aging Progress in Cell Lineage Tracing in the Elderly Workshop, Bethesda, MD, July 2010
- Blood Center of Wisconsin, Blood Research Institute, Milwaukee, WI, June 2010
- Wallenberg Foundation Conference, Hematopoiesis 2010, Lund, Sweden, May 2010
- NIH, Hematology IACC Workshop-Myelodysplasia, Bethesda, MD, May 2010
- Yale University, Genetics Seminar Series, New Haven, CT, May 2010
- University of Alabama, Biochemistry and Molecular Genetics Seminar Series, Birmingham, AL, April 2010
- University of Texas, MD Anderson Cancer Center, Stem Cells and Cancer Seminar, Houston, TX, April 2010
- University of New Mexico, Cellular and Molecular Basis of Disease Seminar Series, Albuquerque, NM, March 2010
- Cincinnati Children's Hospital Research Foundation, Cincinnati, OH, February 2010
- University of California 6th Annual Stem Cell Symposium, Los Angeles, CA, February 2010
- American Association for Cancer Research (AACR), Cancer Epigenetics, San Juan, Puerto Rico, January 2010
- NIH, Director's iPS Workshop, Bethesda, MD, January 2010
- NIH, NHLBI, Stem Cell Seminar Series, Bethesda MD, January 2010
- 2009 Oklahoma Medical Research Foundation, Flagship Seminar Series, Oklahoma City, OK, October 2009
- University of Minnesota, Stem Cell Symposium, Minneapolis, MN, October 2009
- International Society for Experimental Hematology (ISEH), Athens, Greece, September 2009
- Chesapeake Bay Cytometry Association, June 2009
- University of Maryland, Distinguished Lecture Series, College Park, MD, June 2009
- University of Koln, Department of Genetics, Cologne, Germany, May 2009
- Symposium on Molecular Mechanisms of Adult Stem Cell Ageing, Reisenburg, Germany, May 2009
- Keystone Symposia on Stem Cells and the Niche, Co-organizer and speaker, April 2009
- Einstein School of Medicine, Bronx, NY, April 2009
- University of Chicago, Genetics Seminar, Chicago, IL, February 2009
- 2008 American Society of Hematology (ASH), Annual Meeting - Education Session, San Francisco, CA, December 2008
- Scripps Institute, Torrey Pines Optical Technology Symposium, La Jolla, CA, November 2008
- The Burnham Institute for Medical Research, La Jolla, CA, November 2008
- Leukemia International Conference, Houston, TX, September 2008
- ISAC XXIV International Congress, Budapest, Hungary, May 2008
- UMCG Seminar Series, Groningen, The Netherlands, May 2008
- Shandong University Lecture Series, Shandong, China, March 2008
- Mount Sinai School of Medicine, Black Family Stem Cell Institute, New York, NY, March 2008
- Cincinnati Children's Hospital, Divisions of Experimental Hematology and Hematology/Oncology, Cincinnati, OH, January 2008
- 2007 International Meeting of the Stem Cell Network NRW, Dusseldorf, Germany, October 2007
- Flagship Stem Cells Panel Discussion, Houston, TX, September 2007

- Baylor College of Medicine, MCB Department, Houston, TX, September 2007
- Kings College, Cambridge, UK, July 2007
- Stanford University, Department of Developmental Biology Palo Alto, CA, January 2007
- 2006 Texas Life Science Conference, Houston, TX, November 2006
- Leukemia & Lymphoma Society (LLS), Stohlman Scholar Symposium, Dallas, TX, November 2006
- MD Anderson Cancer Center (MDACC), Annual Symposium on Cancer Research, Houston, TX, October 2006
- City of Hope Seminar Series, Duarte, CA, August 2006
- UCLA Pharmacology Seminar, Los Angeles, CA, May 2006
- University of Kentucky, Department of Physiology Seminar, Lexington, KY, May 2006
- Skirball Annual Symposium, NY, May 2006
- Functional Genomics of Ageing, International Conference, Palermo, Italy, April 2006
- EMBO/SEMM Workshop on Homeodomain Proteins, Hematopoietic Development and Leukemias, Milan, Italy, March 2006
- Keystone Symposium on Stem Cells, Santa Fe, NM, February 2006
- 2005 Cold Spring Harbor Laboratory (CSHL), Banbury Center Conference on Cancer Stem Cells, NY, December 2005
- American Association of Pharmaceutical Scientists, Annual Meeting, Nashville, TN, November 2005
- UT MD Anderson Cancer Center, Stem Cell Mini-Symposium, Houston, TX, November 2005
- Hematology Society of Australia and New Zealand, Annual Meeting, Plenary Session and Meet-the-Expert, Sydney, Australia, October 2005
- Amgen, Inc., Thousand Oaks, CA, September 2005
- The Saban Research Institute Symposium, Los Angeles, CA, September 2005
- SMU, Collegium da Vinci, Allman Family Lecture Dallas, TX, September 2005
- NCI, Mouse Models of Human Cancers Consortium Epidermal Stem Cells Meeting, Winter Park, CO, August 2005
- International Society for Stem Cell Research (ISSCR), Annual Meeting, Plenary Session, San Francisco, CA, June 2005
- University of Texas Health Science Center San Antonio, San Antonio, TX, May 2005
- University of Pennsylvania School of Medicine, Philadelphia, PA, May 2005
- Abbott Laboratories Cancer Stem Cell Meeting, Libertyville, IL, April 2005
- Oregon Health & Science University, Oregon Stem Cell Center, Portland, OR, April 2005
- Cell Therapy, International Symposium on the Clinical Use of Cellular Products, Regensburg, Germany, March 2005
- Swiss Institute for Experimental Cancer Research, Stem Cell Biology Seminar Series, Epalinges, Switzerland, March 2005
- Keystone Symposium on Molecular Regulation of Stem Cells, Lead Organizer and Speaker, Banff, Alberta, Canada, February 2005
- The Academy of Medicine, Engineering and Science of Texas (TAMEST), Conference, Irving, TX, January 2005
- 2004 Freiburg Symposium, Molecular Hematology, Freiburg, Germany, October 2004
- Huffington Center on Aging, Baylor College of Medicine, Houston, TX, October 2004
- National Heart, Lung, and Blood Institute (NHLBI), Symposium on Cardiovascular Regenerative Medicine, Bethesda, MD, September 2004

- NIH, NHLBI Working Group on Translation of Cell-Based Therapies for Cardiovascular Disease, Co-Chair and Speaker for meeting, Bethesda, MD, August 2004
- International Society for Experimental Hematology (ISEH), Annual Scientific Meeting, New Orleans, LA, July 2004
- Gordon Research Conference: Regeneration and Wound Healing, Lewiston, ME, June 2004
- International Society for Stem Cell Research (ISSCR), 2nd Annual Meeting, Boston, MA, June 2004
- American Society of Gene Therapy 7th Annual Meeting, Minneapolis, MN, June 2004
- Biogen Idec Symposium, Boston, MA, June 2004
- UK/Texas Symposium: Tissue Engineering and Regenerative Medicine, London, England, March 2004
- Flow Cytometry Confocal Seminar, NIEHS, Research Triangle Park, NC, March 2004
- Moffitt Immunology Colloquium, Moffitt Cancer Center, Tampa, FL, March 2004
- UT MDACC Biology Retreat, Keynote Speaker, West Columbia, TX, March 2004
- Lorne Cancer Conference, Lorne, Victoria, Australia, February 2004
- Children's Medical Research Institute, Westmead, Sydney, Australia, February 2004
- Keystone Symposium on Stem Cells, Keystone, CO, January 2004
- 2003 American Society of Hematology (ASH), Annual Meeting, Education Program, San Diego, CA, December 2003
- Annual Conference on Regenerative Medicine, Washington, DC, November 2003
- Texas Children's Cancer Center. Houston, TX, October 2003
- Annual Meeting of the European Tissue Engineering Society, Genoa, Italy, September 2003
- Wilsede Meeting, XV - Modern Trends in Human Leukemia, Wilsede, Germany, June 2003
- International Society for Stem Cell Research (ISSCR), Washington, DC, June 2003
- The University of Texas Health Science Center, Houston, TX, May 2003
- Weill Graduate School of Medical Sciences, Cornell University, New York, NY, April 2003
- Keystone Symposium, Stem Cells: From Stem Cells to Therapy, Steamboat Springs, CO, March 2003
- UT MD Anderson Cancer Center, Department of Cardiology, Houston, TX, March 2003
- Baylor College of Medicine, Cardiology Conference, Houston, TX, February, 2003
- Baylor College of Medicine, DB Retreat, West Columbia, TX, February, 2003
- Stowers Institute for Medical Research, Kansas City, MO, February 2003
- Baylor College of Medicine, Annual Genetics Retreat, Galveston, TX, January 2003
- 2002 Leukemia and Lymphoma Society (LLS), Corporate Friday Symposium: The American Society of Hematology, Philadelphia, PA, December 2002
- American Heart Association Scientific Sessions, Chicago, IL, November 2002
- The American Society of Gene Therapy, 5th Annual Meeting, Boston, MA, June 2002
- National Institute of General Medical Sciences (NIGMS), Bethesda, MD, June 2002
- Gordon Research Conference: Mammary Gland Biology Conference, Lucca, Italy, May 2002
- University of Wisconsin-Madison, Regional Primate Center, Madison, WI, May 2002
- Emory University, Atlanta, GA, April 2002
- Academie des Sciences de l'Institut de France, Stem Cells and Cell Therapy, Paris, France, March 2002
- Keystone Symposium, Stem Cells: Origins, Fates and Functions (x3), Keystone, CO, March 2002
- Muscular Dystrophy Association (MDA), Research Department Stem Cell Workshop, Tucson,

AZ, March 2002  
Opening Symposium for the Gene and Cell Therapy Facility, Utrecht, The Netherlands, February 2002  
American Association for the Advancement of Science (AAAS), Annual Meeting and Science Innovation and Exposition, Boston, MA, February 2002  
Baylor College of Medicine, Department of Immunology, Houston, TX, February 2002  
Abbott Laboratories, Abbott Park, IL, February 2002  
Boehringer-Ingelheim Pharmaceuticals, Ridgefield, CT, February 2002  
Stem Cell Network mini-symposium: Frontiers in Regenerative Medicine: Stem Cells and Cardiology, Vancouver, BC, Canada, January 2002  
University of Texas Medical School, Houston, TX, January 2002

## RESEARCH SUPPORT

### *Current*

*Modifiable Drivers of Expansion and Malignant Transformation from Clonal Hematopoiesis*  
NIH, National Cancer Institute (NCI) (P01 CA265748)  
Principal Investigator, Leader of Admin Core, co-Leader Project 2  
April 8, 2022 – March 31, 2027 Direct Costs: \$1,818,390 / Total Funding: \$2,216,221

*DNMT3A in Development of Hematologic Malignancies*  
NIH, National Cancer Institute (NCI) (R01 CA183252)  
Principal Investigator  
September 11, 2014 – August 31, 2024 Direct Costs: \$326,610 / Total Funding: \$522,576

*Molecular Regulation of Stem Cell Aging*  
NIH, National Institute of Aging (NIA) (P01 AG036695)  
Project Leader and Core Leader (PI – T. Rando)  
July 1, 2011 – July 31, 2023 (NCE) Direct Costs: \$320,748 / Total Funding: \$1,402,417

*PPM1D in Clonal Hematopoiesis and Malignancies*  
NIH, National Cancer Institute (NCI) (R01 CA237291)  
Co-Principal Investigator with Lawrence Donehower  
July 1, 2019 – June 30, 2024 Direct Costs: \$406,774 / Total Funding: \$587,639

*Hematology Training Program*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (T32 DK060445)  
Principal Investigator  
September 30, 2002 – June 30, 2024 Direct Costs: \$476,962 / Total Funding: \$472,599 (2023)

*Regulation of Hematopoietic Progenitors by de novo DNA Methylation*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (R01 DK092883)  
Principal Investigator  
July 1, 2011 – March 21, 2025 Direct Costs: \$404,710 / Total Funding: \$647,536

*Deconvoluting Contributions of Clonal Evolution and Epigenetic Drift to Aging and Rejuvenation*  
Milky Way Research Foundation  
Principal Investigator  
December 1, 2021 – November 30, 2024 Direct Costs: \$1,000,000 / Total Funding: \$3,450,000

*DNA Methylation Canyons in Human Cancers: Target Genes and Functional Consequences*  
NIH, National Cancer Institute (NCI) (R01 CA228140)  
Co-Investigator with Wei Li

February 1, 2020 – June 30, 2024                      Direct Costs: \$367,030 / Total Funding: \$550,194

*Baylor College of Medicine Cancer Center - Cancer Support*  
Funding NIH, National Cancer Institute (NCI) (P30 CA125123)  
Co-Leader, CCGT program, AD for basic research (PI – P. Reddy)  
July 1, 2007 – June 30, 2025                      Direct Costs: \$2,198,161 / Total Funding: \$3,517,288

*Training in Cell and Gene Therapy*  
NIH, National Heart, Lung and Blood Institute (NHLBI) (T32 HL092332)  
Co-Director/Mentor (PI – H. Heslop)  
July 1, 2003 – July 31, 2028                      Direct Costs: \$378,858 / Total Funding: \$377,268 (2023)

*Vivian L. Smith Chair of Regenerative Medicine*  
Vivian L. Smith Foundation  
Total funding per annum since 2007: varies

### *Completed*

*Environmental Drivers of Clonal Hematopoiesis*  
Adrienne Helis Malvin Medical Research Foundation  
Principal Investigator  
July 1, 2019 – June 30, 2023                      Direct Costs: \$180,118 / Total Funding: \$592,200

*SPORE in Lymphoma*  
NIH, National Cancer Institute (NCI) (P50 CA126752)  
DRP - Co-Program Director/CEP Mentor (PI – H. Heslop)  
April 1, 2007 – August 31, 2022                      Direct Costs: \$1,814,443 / Total Funding: \$2,179,484

*DNMT3A and the Spliceosome in MDS*  
Edward P. Evans Foundation  
Principal Investigator  
September 1, 2018 – August 31, 2021                      Direct Costs: \$181,818 / Total Funding: \$200,000

*Clonal Hematopoiesis, Aging and Genome Stability in PPM1D Mutants*  
NIH, National Cancer Institute (NCI) (U01 CA236972)  
Principal Investigator  
June 4, 2019 – May 31, 2021                      Direct Costs: \$75,000 / Total Funding: \$120,000

*Investigating the Role of Dnmt3a in Development of Myeloid Malignancies*  
Samuel Waxman Institute  
Principal Investigator  
July 1, 2011 – June 30, 2019                      Direct Costs: \$25,000 / Total Funding: \$100,000

*Protein Truncating Mutations in WIP1: Effects on Cancer and Hematopoiesis*  
Cancer Prevention and Research Institute of Texas (CPRIT)  
Co-Principal Investigator with Lawrence Donehower  
March 1, 2016 – February 2019                      Direct Costs: \$300,000 / Total Funding: \$900,000

*Computational and Experimental Modeling of Epigenetic DNA Methylation*  
NIH, National Human Genome Research Institute (NHGRI) (5R01HG007538-05)  
Co-investigator (PI – W. Li)  
December 19, 2013 – November 30, 2018                      Direct Costs: \$250,000 / Total Funding: \$1,250,000

*DNA Methyltransferase 3A in hematologic malignancies*  
Cancer Prevention and Research Institute of Texas (CPRIT)  
Principal Investigator  
September 2014 – August 2017                      Direct Costs: \$300,000 / Total Funding: \$900,000

*Mechanisms of Synergy between Dnmt3a and Tet2 Mutations*

Adrienne Helis Malvin Foundation

Principal Investigator

April 1, 2014 – March 31, 2017

Direct Costs: \$300,000 / Total Funding: \$900,000

*SPORE in Lymphoma*

NIH, National Cancer Institute (NCI) (P50 CA126752)

Project 4 Co-Leader (PI – H. Heslop)

September 11, 2007 – August 31, 2017

Direct Costs: \$1,519,517 / Total Funding: \$7,957,402

*Environmental Drivers of MDS in the Context of Dnmt3a Mutations*

Edward P. Evans Foundation

Principal Investigator

July 1, 2014 – June 30, 2016

Direct Costs: \$200,000 / Total Funding: \$400,000

*Investigating the Role of Dnmt3a in Development of Myeloid Malignancies*

Samuel Waxman Institute

Principal Investigator

July 1, 2015 – June 30, 2015

Direct Costs: \$15,000

*DNA Methyltransferase 3A in hematologic malignancies*

Cancer Prevention and Research Institute of Texas (CPRIT)

Principal Investigator

September 2011 – August 2014 (renewed)

Direct Costs: \$300,000 / Total Funding: \$900,000

*Mechanisms of LYL1-associated T-ALL development*

Alex's Lemonade Stand

Principal Investigator

July 1, 2012 – June 30, 2014

Direct Costs: \$100,000 / Total Funding: \$200,000

*Interferon-gamma-Induced Proliferation and Premature Senescence Lead to Hematopoietic Stem Cell Dysfunction in Acquired Aplastic Anemia*

Department of Defense

Principal Investigator

September 30, 2010 – October 31, 2014

Direct Costs: \$125,000 / Total Funding: \$375,000

*Regulatory Networks in Human Embryonic Stem Cells*

NIH, National Institute of General Medical Sciences (NIGMS) (P01 GM81627) (NCE)

Principal Investigator

September 1, 2007 – August 31, 2014

Direct Costs: \$1,421,910 / Total Funding: \$6,749,830

*A Role of RPR1B in Hematopoiesis*

BCM Dan L. Duncan Cancer Center Pilot Project

Co-Investigator (PI – Lin)

September 2013 – August 2014

Direct Costs: \$40,000

*Role of DNA Methyltransferase 3B in normal and malignant hematopoiesis*

Cancer Prevention and Research Institute of Texas (CPRIT)

Principal Investigator

December 1, 2010 – November 30, 2014

Direct Costs: \$489,277 / Total Funding: \$1,486,780

*Epigenetic Changes with Age in Hematopoietic Stem Cells*

NIH, National Institute of Aging (NIA) (RC2 AG036562)

Co-Investigator (PI – Darlington)

October 01, 2009 – September 30, 2012

Direct Costs: \$834,195

*Regulation of Hematopoietic Progenitors by de novo DNA Methylation*

NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (R56 DK092883)  
Principal Investigator  
July 1, 2011 – June 30, 2012 Direct Costs: \$220,000

*Hematopoietic Stem Cell Differentiation and Commitment*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (R01 DK58192)  
Principal Investigator  
June 1, 2000 – May 31, 2011 Direct Costs: \$204,428 / Total Funding: \$1,100,000

*Regulatory Networks in Human Embryonic Stem Cells*  
NIH, National Institute of General Medical Sciences (NIGMS) (5P01GM081627-05)  
ARRA Supplement for P01  
Principal Investigator  
September 1, 2009 – August 31, 2011 Direct Costs: \$975,788

*Tissue Engineering of Hematopoietic Bone*  
National Institute of Biomedical Imaging and Bioengineering/NIH, National Heart, Lung and Blood Institute (NHLBI) (R01 EB005173)  
Co-Investigator  
September 30, 2005 – August 31, 2011 – NCE Direct Costs: \$804,476 / Total Funding: \$4,281,024

*Cell Fate Tracking in the Aging Hematopoietic System*  
NIH, National Institute of Aging (NIA) (5R21AG034451-02)  
Principal Investigator  
August 15, 2009 – July 31, 2011 Direct Costs: \$150,000

*Mechanisms of Aging in Hematopoietic Stem Cells*  
Ellison Medical Foundation  
Principal Investigator  
October 1, 2006 – September 30, 2010 Direct Costs: \$150,000 / Total Funding: \$600,000

*Improving the Safety and Efficacy of Cell Therapies*  
NIH, National Heart, Lung and Blood Institute (NHLBI) (U54 HL081007)  
Co-Investigator; Head of Project 3  
September 30, 2005 – August 31, 2010 Direct Costs: \$1,369,394 / Total Funding: \$7,184,852

*Cardiac Therapy with Bone Marrow Cells*  
American Heart Association  
Principal Investigator  
January 1, 2007 – December 31, 2011 Direct Costs: \$90,909 / Total Funding: \$454,545

*Role of IRGM in Human Disease*  
Virginia and L. E. Simmons Foundation  
Co-Principal Investigator  
January 1, 2009 – December 31, 2009 Direct Costs: \$183,215

*Safe and Efficient Generation of hES-derived Bone Marrow*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (R01 DK 075355)  
Principal Investigator  
September 30, 2005 – August 31, 2009 Direct Costs: \$252,847 / Total Funding: \$1,066,668

*Reprogramming Bone Marrow Cells to Better Regenerate Muscle*  
Muscular Dystrophy Association  
Principal Investigator  
July 1, 2005 – June 30, 2008 Direct Costs: \$90,909 / Total Funding: \$272,727

*Gene Expression and Discovery in Liver and Gut Stem Cells*

NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (1 U01 DK 63588)  
Co-Investigator; Director of Stem Cell Purification (Core B)  
July 1, 2002 – June 30, 2006 Direct Costs: \$80,711 / Total Funding: \$242,133

*Gene Expression and Discovery in Liver and Gut Stem Cells*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (1 U01 DK 63588)  
Co-Investigator; Head of Project 3, Hematopoietic Stem Cell Gene Expression  
July 1, 2002 – June 30, 2006 Direct Costs: \$205,000 / Total Funding: \$615,000

*Hematopoietic Stem Cells for Adult Skeletal Muscle*  
Leukemia and Lymphoma Society  
Principal Investigator  
July 1, 2001 – June 30, 2006 Direct Costs: \$100,000 / Total Funding: \$500,000

*Investigation of CD34negative Human Hematopoietic Stem Cells*  
NIH, National Cancer Institute (NCI) (R01 CA81179-03)  
Principal Investigator  
April 1, 2000 – March 31, 2006 Direct Costs: \$180,000 / Total Funding: \$900,000

*BD LSR II 4 Laser Analytical Flow Cytometry*  
NIH, National Center for Research Resources (NCRR) (Shared Instrumentation)  
Principal Investigator  
February 1, 2005 – January 31, 2006 Direct Costs: \$290,062

Supplement to *Muscle-derived Hematopoietic Stem Cells*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)  
Principal Investigator  
April 23, 2004 – July 31, 2005 Direct Costs: \$75,000

*Stem Cell Transplantation for Therapy of Neuromuscular Disease*  
Muscular Dystrophy Association  
Principal Investigator  
July 1, 2002 – June 30, 2005 Direct Costs: \$95,000 / Total Funding: \$285,000

*Gift for Post-doctoral Support*  
Boehringer-Ingelheim Pharmaceuticals Award  
Principal Investigator  
July 1, 2002 – June 30, 2004 Direct Costs: \$40,000 / Total Funding: \$80,000

*ABI PRISM 7700 Sequence Detection System*  
NIH, National Center for Research Resources (NCRR) (Shared Instrumentation )  
Principal Investigator  
April 1, 2003 Direct Costs: \$142,657

*Skeletal Muscle Regeneration from Hematopoietic Stem Cells*  
Muscular Dystrophy Association  
Principal Investigator  
July 1, 1999 – June 30, 2002 Direct Costs: \$92,593 / Total Funding: \$375,000

*Muscle Derived Hematopoietic Stem Cells*  
W. M. Keck Foundation  
Principal Investigator  
July 1, 2001 – June 30, 2002 Direct Costs: \$10,000

*Gift for Post-doctoral Support*  
Boehringer-Ingelheim Pharmaceuticals Award  
Principal Investigator  
July 1, 2000 – June 30, 2002 Direct Costs: \$40,000 / Total Funding: \$80,000

*Purification of Mammary Gland Stem Cells*

U.S. Army (DAMD17-00-1-0603)

Principal Investigator (Co-PI: Jeffrey Rosen, Department of Molecular & Cellular Biology)

September 1, 2000 – August 31, 2001 Direct Costs: \$50,000

*Investigation of CD34negative Human Hematopoietic Stem Cells*

American Society of Hematology, Fellow Scholar Award

Principal Investigator

July 1, 1999 – June 30, 2001 Direct Costs: \$60,000 / Total Funding: \$120,000

*Investigation of CD34negative Human Hematopoietic Stem Cells*

NIH, National Cancer Institute (NCI) (R55 CA81179-01)

Principal Investigator

April 1, 1999 – March 31, 2001 Direct Costs: \$80,000

*Cloning of Novel Porcine Hematopoietic Antigen Genes*

Bio Transplant Inc. Award

Principal Investigator

January 1998 – December 2000 Direct Costs: \$40,000

*Evaluation of Hematopoietic Potential of a CD34negative Stem Cell Population*

Bear Necessities Pediatric Cancer Foundation

Principal Investigator

July 1, 1998 – June 30, 1999 Direct Costs: \$20,000

*Evaluation of Hematopoietic Potential of a CD34negative Hematopoietic Stem Cell Population*

Seed Funds Institutional - Baylor College of Medicine

Principal Investigator

July 1, 1998 – June 30, 1999 Direct Costs: \$25,000

*Current Mentored Support*

*The impact of increased mutation burden on promoting clonal hematopoiesis*

NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)(1F30DK131638-01A1)

Mentor to PI – Chiraag Kapadia

August 24, 2022 – September 23, 2024 Direct Costs: \$47,110

*Defining the Synergistic Role of NPM1 and DNMT3A Mutations on HOX Gene Regulation in the Pathogenesis of Acute Myeloid Leukemia*

NIH, National Cancer Institute (NCI) (1F30CA268725-01A1)

Mentor to PI – Gandhar Datar

September 1, 2022 – August 31, 2024 Direct Costs: \$47,110

*Determining the effect of DNMT3A loss on the competitive fitness of mutant cells in somatic mosaicism*

NIH, National Institute of Child Health and Human Development (NICHD) (1F30HD111129-01)

Mentor to PI – Sarah Waldvogel

January 1, 2023 – February 1, 2025 Direct Costs: \$47,110

*Completed Mentored Support*

*DNMT3A Mediated Methylation-Dependent Changes in Gene Expression Networks Throughout Serial Transplantation*

HHMI Gilliam Graduate Fellowship (GT10923)

Mentor to PI – Jaime Reyes

September 1, 2018 – August 31, 2022 Direct Costs: \$50,000

*The Role of WIP1 in Clonal Hematopoiesis*

NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (5F30DK116428-03)  
Mentor to PI – Joanne Hsu  
September 19, 2017 – September 18, 2020      Direct Costs: \$44,865

*Defining the Role of DOT1L in DNMT3A-mutant leukemia*  
NIH K08  
Mentor to PI - Rachel Rau  
April 1, 2017 – March 31, 2020      Direct Costs: \$450,411

*The role of DNMT3A in gene regulation and stem cell expansion*  
NIH, National Cancer Institute (NCI) (4F99CA222736-03)  
Mentor to PI – Yung-Hsin Huang  
September 1, 2017 – December 31, 2019      Direct Costs: \$89,588

*A Novel Role for DNMT3A in Hematopoiesis*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (5F31DK113705-03)  
Mentor to PI – Raghav Ramabadrans  
April 1, 2018 – July 31, 2019      Direct Costs: \$25,348

*CPRIT Training Award (Graduate Student on institutional Training)*  
Cancer Prevention Research Institute of Texas  
Mentor to PI – Michael Gundry  
March 1, 2016 – February 28, 2018      Direct Costs: \$31,000

*Pediatric Clinical Oncology Research Training Program*  
NIH, National Cancer Institute (NCI)  
Mentor to PI – Rachel Rau  
July 1, 2014 – June 30, 2015      Direct Costs: \$750,000

*The Houston Laboratory and Population Sciences Training Program in Gene-Environment Interaction*  
Burroughs Wellcome Fund/UTHSC-Houston  
PI/Mentor – Xiaotian Zhang  
September 1, 2014 – January 31, 2015      Direct Costs: \$16,580

*The role of Interferon Gamma in the Regulation of Hematopoietic Stem Cells*  
NIH, National Heart, Lung, and Blood Institute (NHLBI) (5K08HL098898-05)  
Mentor to PI – Katherine King  
May 1, 2010 – February 28, 2015      Direct Costs: \$604,205

*Post Award; DNMT3A in Pediatric ALL*  
Alex's Lemonade Stand  
Mentor to PI – Liubin Yang  
June 1, 2012 – August 30, 2012      Direct Costs: \$6,000

*Fellow Scholar Award*  
American Society of Hematology  
Mentor to PI – Challen  
July 1, 2010 – June 30, 2012      Direct Costs: \$100,000

*CPRIT Training Award (Postdoctoral Fellowship)*  
Cancer Prevention Research Institute of Texas  
Mentor to PI – Fabian Zohren  
September 1, 2010 – August 31, 2011      Direct Costs: \$49,540

*DNA Methylation Controls Hematopoietic Stem Cell Lineage Differentiation*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (K99)  
Mentor to PI – Challen  
April 15, 2010 – March 31, 2012      Direct Costs: \$83,333

*LRG-47: a critical regulator of host defense and hematopoietic stem cell function*  
NIH, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)  
Mentor to PI – Megan Tierney Baldrige  
August 1, 2008 – July 31, 2010                      Direct Costs: \$30,667

*Plasticity and Regenerative Properties of Adult Stem Cells*  
Canadian Institutes of Health Research  
Mentor to Fellow – Diego Vierya  
October 31, 2003 – September 30, 2005                      Direct Costs: \$38,068

*2003 Banyu Fellowship Award*  
Banyu Pharmaceutical Company  
Mentor to Fellow - Soichiro Fujiyama  
June 1, 2003 – June 30, 2005                      Direct Costs: \$35,000

*Improvement of Bone Marrow Incorporation into Skeletal Muscle*  
Muscular Dystrophy Association  
Mentor to PI – Kathyjo A. Jackson  
January 1, 2003 – December 31, 2003                      Direct Costs: \$41,667 / Total Funding: \$41,667

*Muscle-Derived Cells Can Function as Hematopoietic Stem Cells*  
Leukemia and Lymphoma Society  
Mentor to PI – Kathyjo A. Jackson  
July 1, 2000 – June 30, 2003                      Direct Costs: \$35,000 / Total Funding: \$105,000

## TEACHING AND TRAINING

### Didactic Teaching

#### *Baylor College of Medicine*

1998-2008      Lecturer in *Gene Therapy*, Department of Molecular and Human Genetics  
1999-2005      Lecturer in Educational Program for Smart Students  
2003-2008      Lecturer in Topics in Developmental Biology  
2006-2008      Lecturer in “Biology of Aging course”  
2009-present    Lecturer in Stem Cell Biology course, Term 4

#### *Other Universities*

04/1999      Lecturer in “Advanced Topics in Human Molecular Genetics” University of Oklahoma  
Fall 2000      Participant in Course on Stem Cell Biology, Univ. of Texas Medical School

### Mentoring (*Chronological Order*)

<i>Graduate Students</i>	<i>Current position (graduate program, years in lab, awards while in lab)</i>
Shannon McKinney-Freeman	Associate Member, St. Jude Children’s Hospital (Department of Immunology 1999-2003; 1998 Mary Owen Greenwood Scholar Award; 2001 Best Graduate Student Talk Award, BCM Immunology Department Retreat; 2002 Best Graduate Student Talk Award, BCM Immunology Department Retreat; 2002 1 <sup>st</sup> Place Poster Award, BCM Graduate School Day)

Steven Bradfute Assistant Professor, Molecular Genetics/Microbiology, University of New Mexico (Department of Immunology 2000-2005; 2002-2004 NIH T32 Training, Department of Immunology; 2004 Deborah K. Martin Achievement Award)

Teresa Venezia Bowman Associate Professor, Albert Einstein School of Medicine, Bronx, NY (Cellular & Molecular Biology Program 2000-2005; 2001 Claude W. Smith Fellowship Award; 2001 Teaching Assistant Excellence Award, BCM; 2003 2<sup>nd</sup> Place Poster Award, BCM Graduate Student Symposium; 2003 Non-faculty Teaching Award, BCM, CAGT Conference; 2004 Claude W. Smith Fellowship Award; 2004 Keystone Symposium Scholarship Winner)

Fernando Camargo Professor, Harvard Medical School, Harvard Stem Cell Institute (Cellular & Molecular Biology Program 2001- 2004; 2002 “Best Talk” Award, CMB & SCBMB Annual Retreat; 2002 “Best Poster” Award, CMB & SCBMB Annual Retreat; 2003 Claude W. Smith Award, Most Outstanding PhD Student Baylor College of Medicine; 2003 1<sup>st</sup> Place Poster, BCM Graduate Student Symposium; 2003 ASH Travel Award; 2004 Keystone Symposium Scholarship Winner; 2004 Claude W. Smith Award; 2004 Beckman Award for Best Talk, BCM Graduate Student Symposium; 2005 Hal Weintraub Award)

Stuart Chambers Principal Scientist, Amgen, San Francisco, CA (Cellular & Molecular Biology Program 2002-2008; 2004 1<sup>st</sup> Place Poster, BCM Graduate Student Symposium; 2004 Oral Presentation, ASH; 2005 3<sup>rd</sup> Place Oral Presentation, BCM CAGT Annual Conference; 2007 AFAR-GE Healthcare Junior Investigator Award for Research in Biomarker Research Excellence)

David Weksberg Co-Director, Radiation-Oncology, Pinnacle Health Cancer Care, Harrisburg, PA (MSTP program; Department of Molecular & Human Genetics 2004-2008; MD, 2010; 2005 First Place Poster Award BCM Graduate Student Symposium; 2005 Beckman Most Outstanding Poster Award, BCM Symposium; 2006 Sigma Xi Annual Graduate Student Award in Science and Engineering, Rice/TMC chapter; 2006 First Place Poster Award BCM Graduate Student Symposium; 2007 Best Talk Department of Molecular and Human Genetics Annual Retreat; 2007 Best Talk, MD/PhD Program Annual Retreat; 2008 Richard R. Dickason, Jr. Outstanding Physician Scientist Award, BCM MSTP Program)

Nathan Boles Principal Investigator, New York Neural Stem Cell Institute (Cellular & Molecular Biology Program 2004-2009; 2005 Travel Award, NIDDK Cellular Niche Workshop; 2005 2<sup>nd</sup> Place Poster, CAGT Annual Meeting; 2008 Travel Award, Keystone Symposium, Singapore)

Megan Tierney Baldrige Associate Professor, Washington University in St. Louis School of Medicine (MSTP program; Department of Molecular & Human Genetics 2006-2009; MD 2011; 2006 NIH T32 Training, CAGT, BCM; 2007 Individual NRSA Award, NIDDK, NIH; 2009 Second Place Oral presentation, MD/PhD Retreat, BCM; 2009 Travel Award, American Society of Hematology, New Orleans, LA; 2010 Genetics Department Award for Best Paper by a Graduate Student, BCM)

Kuan (Karen) Lin VP, Corporate Strategy, AHEAD Medicine, Taipei City, Taiwan (Department of Immunology 2003-2010; 2006 3<sup>rd</sup> Place Poster Award, BCM Graduate Student Symposium; 2006 Excellence in Teaching Award, Cell and Gene Therapy Program, BCM; 2006 NIH T32 Training , Cell and Gene Therapy Program, BCM; 2007 2<sup>nd</sup> Place Platform Presentation, Department of Immunology Annual Retreat, BCM; 2007 Travel Award, ISSCR, Cairns, Australia; 2007 Travel Award, ASCB Annual Meeting; 2008 3<sup>rd</sup> Place Platform Presentation, Cell and Gene Therapy Program Retreat, BCM; 2008 John R. Kelsy, Jr. Student Speaker Award, BCM Graduate Student Symposium; 2008 NIH T32 Training , Department of Immunology, BCM; 2008 Travel Award, Oral Presentation, ASH 50<sup>th</sup> Annual Meeting, San Francisco, CA)

Olga Sirin Clinical Trials Coordinator, Theradex, Europe (Department of Molecular & Human Genetics 2004-2010; 2007 Travel Award, ISSCR Annual Meeting, Cairns, Australia; 2007 1<sup>st</sup> Place Best Oral Presentation, Cell and Gene Therapy Meeting, Baylor College of Medicine; 2008; 1<sup>st</sup> Place Presentation, 6<sup>th</sup> Annual Dan L. Duncan Cancer Center Symposium; 2008 Travel Award, ASH 50<sup>th</sup> Annual Meeting, San Francisco, CA; 2009 1<sup>st</sup> Place Poster Award, BCM Graduate Student Symposium; 2009 Beckman Most Outstanding Poster Award, BCM Symposium)

George Souroullas Assistant Professor, Washington University School of Medicine in St. Louis (Department of Molecular & Human Genetics 2005-2009; 2008 3<sup>rd</sup> Place Oral Presentation, Molecular and Human Genetics Department Annual Retreat, BCM; 2008 Pancyprian Association of Texas, Thekla Protopapas Scholarship; 2008 Travel Award, Oral Presentation, ASH 50<sup>th</sup> Annual Meeting, San Francisco, CA; 2009 Oral Presentation, Transcriptional Mechanisms of Early Lymphocyte Development Symposium, La Jolla, CA; 2010 Best Poster, CAGT annual Retreat, BCM)

Andrew Sharabi Associate Professor & Physician Scientist, Department of Radiation Medicine and Applied Sciences, University of California, San Diego, CA (Co-mentor, Department of Immunology 2007-2008)

Aysegul Verim Ergen Regulatory Affairs Manager, Amgen (Developmental Biology graduate program 2007-2012)

Allison Mayle Educator, Cold Spring Harbor Laboratory (Department of Molecular and Human Genetics 2010-2015; 2012 American Society of Hematology, Oral Presentation; 2013 American Society of Hematology, Abstract Achievement Award, Poster Presentation; 2013 BCM Center for Cell and Gene Therapy, 3<sup>rd</sup> place trainee, Oral Presentation; 2014 BCM Center for Cell and Gene Therapy, 2<sup>nd</sup> place trainee Teaching Award; 2015 Invited Participant, Nextprof Science Workshop, University of Michigan; 2015 Keystone Symposia Scholarship, DNA Methylation Meeting, Poster Presentation)

Liubin Yang Residency Physician, Baylor College of Medicine, Houston, TX, Incoming Assistant Professor at Yale, Obstetrics and Gynecology (MSTP program; Department of Molecular and Human Genetics 2011-2014; MD 2016; 2012 POST Award for Research, Alex's Lemonade Stand; 2012 First place, poster presentations, BCM Graduate Student Symposium; 2012 American Society of Hematology Research Achievement Award; 2013 American Society of Hematology Abstract Achievement Award; 2013 Cell and Gene Therapy Graduate Student Teaching Award; 2013 American Society of Hematology, Oral Presentation)

Sean Cullen Resident Physician, New York-Presbyterian/Weill Cornell in New York City (Developmental Biology Program 2011-2015; 2013 BCM Center for Cell and Gene Therapy, Teaching Award; 2015 BCM Center for Cell and Gene Therapy, Teaching Award)

Xiaotian Zhang Assistant Professor, University of Texas Health Science Center, Houston, TX (Department of Molecular and Human Genetics 2011-2016; 2013 American Society of Hematology, Oral Presentation; 2014 American Society of Hematology, Oral Presentation; 2016 American Society of Hematology, Oral Presentation and Award for Best Student Abstract)

Michael Gundry Pediatrics Resident, Boston Children's Hospital (MSTP student, Molecular and Human Genetics 2013-2018; MD 2020; 2013 Baylor College of Medicine, BRASS Scholar; 2016 CPRIT training fellow; 2016 CAGT innovation of the year; 2016 CAGT graduate student teaching award; 2017 ISEH Oral Presentation, selected abstract; 2017 ISEH invited workshop speaker; 2017 MSTP symposium, Best Oral Presentation; 2017 CAGT symposium, Second Place Oral Presentation; 2018 MHG annual retreat, Best Oral Presentation)

Joanne Hsu Internal Medicine Resident, Brigham and Women's Hospital (MSTP program; Translational Biology and Molecular Medicine 2016-2019; MD

2021; 2016 Baylor College of Medicine, CAGT T32 training grant; 2016 Baylor College of Medicine, John J. Trentin Academic Achievement Award; 2017 NIDDK, F30 Award; 2018 Baylor College of Medicine, Dean's Award of Excellence; 2018 European Hematology Association, Travel; 2018 Baylor College of Medicine, TBMM Symposium, 3<sup>rd</sup> Place Oral Presentation; 2018 BCM Grad Student Symposium, Best Overall Poster; 2018 American Society of Hematology, abstract achievement award; 2019 MSTP program, Publication Award of the Year; 2019 European Hematology Association, Travel; 2019 Baylor College of Medicine, TBMM program, Best Publication of the Year Award; 2019 Outstanding Community BRASS Scholar of the Year)

Yung-Hsin Huang Postdoctoral Fellow, Stanford University (Developmental Biology Program 2014-2019; 2017 F99 NCI Career Transition Award; 2018 American Society of Hematology, poster presentation)

Raghav Ramabadrnan Consultant, McKinsey (IMBS Program 2015-2022; 2016 American Federation of Aging Research, Scholarship; 2017 F32, NIDDK; 2017 American Society of Hematology, Plenary Presentation)

Jaime Reyes Computer Scientist, Novartis Biomedical Research Institute (Molecular and Human Genetics 2017-2022; 2018 HHMI, Gilliam Training Award; 2018 – Baylor College of Medicine, Dean's Award of Excellence; 2019 European Molecular Biology Laboratory Multiomics to Mechanisms: Challenges in Data Integration Conference, oral presentation; 2020 Baylor College of Medicine, Therapeutics and Innovation Center, Pilot Project Award; 2022 CAGT Symposium, 2nd place student speaker)

Venkatasubramaniam Sundaramurthy Molecular and Human Genetics 05/2018-present; 2019 Keystone Symposia, Conference Assistant: Cell Competition in Development and Disease; 2019 CSHL, Helmsley Scholarship: Mouse Development, Stem Cells, and Cancer Course; 2019 Baylor College of Medicine, The Cullen Foundation Scholarship; 2021 American Heart Association, Predoctoral Fellowship; 2021 Baylor College of Medicine, Dean's Award of Excellence

Linda Zhang MSTP program; Translational Biology and Molecular Medicine 07/2019-present; 2018 Baylor College of Medicine, BRASS Scholar; 2018 Baylor College of Medicine, McNair Scholar; 2020 CAGT trainee award; 2021 Houston Livestock Show & Rodeo BRASS Community Scholar Award; 2022 Baylor College of Medicine, Dean's Distinction in Service Learning; 2022 MSTP Symposium, 2nd place speaking award; 2022 American Society of Hematology, oral presentation and travel award; 2022 CAGT Retreat, 2nd place talk award; BRASS Don D Jordan Outstanding Trailblazer Award, 2023)

Chun-Wei Chen IMBS Program, 07/2019-present; 2022 Rising Star, Rising Stars Symposium, Stanford Burnham Prebys Medical Discovery Institute, CA; 2022 Overseas Graduate Student Scholarship, Ministry of Education, Taiwan; Genetech Internship 2023

Gandhar Datar MSTP program; Cancer and Cell Biology, 07/2019-present; 2022 NIH, F30 award; 2022 American Society of Hematology, oral presentation and travel award; 2023 Biophysical Society Annual Meeting oral presentation

Chiraag Kapadia MSTP program; Cancer and Cell Biology, 07/2019-present; 2019 Baylor College of Medicine, BRASS Scholar; 2021 Baylor College of Medicine, Kathy Crawford Service Award; 2022 American Society of Hematology, travel award; 2022 NIH, F30 award

Sarah Waldvogel MSTP program; Cancer and Cell Biology, 08/2020-present; 2020 Baylor College of Medicine, McNair Scholar; 2020 Baylor College of Medicine, BRASS Scholar; 2020 Frank L. Kretzer Award, highest academic performance of a BCM MSTP student; 2021 Claude W. Smith Award, highest academic performance in the Cancer and Cell Biology Graduate Program; 2022 CAGT Retreat, 1st place poster prize; 2022 NIH, F30 award

Matthew McAlister	Genetics and Genomics program, 07/2022-present; Molecular Genetics T32 training grant 2022
Jennifer Padilla	Cancer and Cell Biology program, 06/2023-present; Hematology T32 training grant 2023
Xiaoyan Zhang	Immunology and Microbiology program, 06/2023-present

*Postdoctoral Fellows*

Hongyu Wang, MD, PhD	Assistant Professor, Center for Proteomics and Systems Biology, Director of Clinical & Translational Proteomics, and Co-Director of Molecular Diagnostics CLIA Laboratory (1997-2001)
Gerald Wulf, MD	Professor, Dept of Hematology/Oncology at University of Goettingen, Germany (Hematology/Oncology, 1999-2001)
Giordano Bianchi, PhD	Returned to Italy (2002-2003)
Daniela Oliveira, PhD	Instructor, Hospital Albert Einstein, Sao Paulo, Brazil (2002-2004)
Kathyjo Jackson, PhD	Professor, Head of Department of Biology, McNeese State University, Lake Charles, LA (1998-2005; 1999 American Society of Hematology, plenary talk)
Diego Vieyra, PhD	Scientific lead, Astella Pharmaceuticals, Santa Monica, CA (2003-2009)
Corinne Sonnet, PhD	Research Associate, Baylor College of Medicine (2004-2009)
Lara Rossi, PhD	Science Writer, Editor, Bologna, Italy (2006-2009)
Georgi Lukov, MD, PhD	Associate Professor, Brigham Young University, Laie, HI (2005-2010)
Grant Challen, PhD	Associate Professor, Hematology, Washington University, St. Louis, MO (2006-2012; 2008 Best Oral Presentation, Dan L. Duncan Cancer Center Symposium, Baylor College of Medicine; 2008 Best Poster Presentation, Cell and Gene Therapy Symposium, Baylor College of Medicine; 2008 Travel Award, ASH 50 <sup>th</sup> Annual Meeting, San Francisco, CA; 2010 NIH K99 NIH Pathway to Independence Award; 2010 American Society of Hematology Joanne Levy MD Memorial Award for Outstanding Achievement)
Fabian Zohren, PhD	Global Clinical Development Leader, Pfizer, Boston, MA (2009-2011)
Min Luo, PhD	Chief Technology Officer, Bio-Gene Technology Co, Ltd., Guangzhou, China (05/2010-09/2014; 2012 Second Place Poster Award; Annual FlowTex meeting; 2013 American Society of Hematology, Oral Presentation)
Benjamin Rodriguez, PhD	Staff Data Scientist, Computational Biology, Valo Health (2013-2017)
Mira Jeong, PhD	Assistant Professor, Baylor College of Medicine (2009-2020; 2017 American Society of Hematology, oral Presentation; 2018 CAGT Teaching Award)
Lorenzo Brunetti, MD, PhD	Assistant Professor, Hematology, University Politecnica delle Marche, Ancona, Italy (2015-2018; 2016 CPRIT Training fellow; 2017 Selected as TRTH fellow; 2017 American Society of Hematology, Oral Presentation; 2017 CAGT Teaching Award)
Yong Lei, PhD	Assistant Professor, The Chinese University of Hong Kong (Shenzen) (2015-2019)
Ayala Tovy, PhD	Principal Scientist lab head, Novartis, Boston, MA (2015-2021; 2018 American Society of Hematology, oral presentation)
Tatsuhiko Arakawa, PhD	Senior Staff, Innovative Research section, Nippon Shinyaku, Kyoto, Japan (2019-2021)
Tianpeng Gu, PhD	Currently negotiating faculty positions in China (2016-2022)
Katharina Wohlan, PhD	08/2019-present; 2022 European Hematology Association, travel award; 2022 FlowTex Conference, speaker; 2022 American Society of Hematology, travel award
Taishi Yonezawa, PhD	04/2021-present; 2021 TOYOBO Biotechnology Foundation, Japan, fellowship; 2022 Baylor College of Medicine, Dean's Award of Excellence;

2022 Japan Society for the Promotion of Science Overseas fellowship; 2022 Yamada Science fellowship; Cancer Research Foundation Fellowship 1/2023-6/2023; Leukemia and Lymphoma Society Postdoctoral Fellowship 7/2023-6/2026.

### *Residents*

Carlos Ramos, MD Professor, Department of Medicine, BCM (MERIT Program, 07/2000-06/2003)  
Akil Merchant, MD Associate Professor, Cedars Sinai (MERIT Program, 07/2002-06/2005)  
Christopher Benton, MD Oncologist/Hematologist, Rocky Mountain Cancer Centers, Aurora, CO (MERIT Program, 08/2007-08/2010)  
Emily Heikamp, MD, PhD Fellow in Pediatrics, Boston Children's Hospital (Pediatrics Department Clinical Scientist Training Program, 2017-2019)  
Stella Hartono, MD Clinical Fellow, National Institute of Allergy and Infectious Diseases (NIAID) (Pediatrics Department Clinical Scientist Training Program, 2019-2020)

### *Clinical Fellows*

Ingrid Kuehnle, MD Professor and clinician in Gottingen, Germany (Pediatric Hematology/Oncology, 1998-2001)  
Kevin Norwood, MD Pediatric Hematologist-Oncologist, Bon Secours St. Mary's Hospital, Richmond, VA (Pediatric Hematology/Oncology, 2001-2003)  
Soichiro Fujiyama, MD Returned to clinical position in Japan (Cardiology Fellow, 2003-2005)  
Emmanuel Volanakis, MD Assistant Professor, Pediatrics Hematology/Oncology, Vanderbilt University School of Medicine, Nashville, TN (2004-2005)  
Maxim Yankelevich, MD Associate Hematologist-Oncologist, Assistant Professor of Pediatrics, Children's Hospital of Michigan, Detroit, MI (2004-2006)  
Alice Chen, MD, PhD Medical Director, Molecular Pathology Section, St. Luke's Episcopal Hospital, Associate Medical Director, Blood Donor Program St. Luke's Episcopal Hospital, and Adjunct Assistant Professor, Department of Pathology, Baylor College of Medicine (Pathology Fellow, Baylor College of Medicine, 2005-2009)  
Jonathan Berg, MD, PhD Professor, Department of Genetics, UNC, Chapel Hill, NC (Molecular and Human Genetics Fellow, 2005-2009)  
Katherine King, MD, PhD Associate Professor, Department of Pediatrics/Infectious Diseases, Baylor College of Medicine (M.D., Ph.D., Pediatric Infectious Disease Fellow, 2007-2010; 2009 Russell and Virginia McFarland Award for Best Oral Presentation, Fellows Day, Dept. of Pediatrics, BCM; 2009 T32 NIH Training in Infection and Immunity, BCM; 2009 Travel Award, American Society of Hematology, Oral Presentation, New Orleans, LA; 2010 International Society for Experimental Hematology Travel Award, Melbourne, Australia; 2010 NIH K08 Clinical Scientist Career Development Award)  
Olive Eckstein, MD Assistant Professor, Department of Pediatrics, Baylor College of Medicine (Pediatric Hematology Oncology Fellow, 2012-2015)

### *Assistant Professors*

Rachel Rau, MD Assistant Professor, Pediatric Hematology-Oncology, Baylor College of Medicine (K12, K08 trainee, 2012-2017; 2014 American Society of Hematology, Oral Presentation; 2017 K08, National Cancer Institute)

### *Visiting Students*

Ying Qu Visiting scholar from the Karolinska Institute, 2015  
Maria Imperato Research Associate, University of Manchester, UK (Co-mentor, Predoctoral Fellow, University of Naples, 2010-2011)

### *Medical Students*

Brielle Crovetti Medical school at BCM (2018-2019)

### *Masters Students*

Madison Doty 06/2018-02/2019  
Marwa Sadek 07/2022-08/2023  
Josephine De La Fuente 07/2022-06/2023; 2023 Best Platform Talk Award, ASCLS, AGT & SAFMLS Joint Annual Meeting, Providence RI

### *Postbaccalaureate Research Education Program (PREP)*

Ashlyn Laidman, 07/2022-06/2023

### *Undergraduates*

Matthew G. Heinz, Adrian College, Michigan, 06-09/1998  
Alissa Winzler, Harvard University, 06-09/2000  
Doug Brownfield, Tulane University, 06-09/2003  
Anjali Gopalan, Rice University, 01/2002-03/2004  
Andrew McCooley, Rice University, 05/2003-05/2005  
Varun Kumar, Rice University, 05/2004-06/2006  
Mehveen Merchant, Rice University, 09/2005-05/2008  
Leslie Fogel, Rice University, 01/2006-05/2008; 2006 American Society of Hematology Trainee Award  
Mary Mao, Rice University, 10/2007-05/2010; 2009 American Society of Hematology Trainee Award  
Shi-Hua Wu, Rice Undergraduate, 05/2008-05/2010  
Wenyuan Wang, Beijing University Undergraduate, 06-09/2009  
Michelle Landis, University of Rochester, 06-09/2012, 06-09/2013  
Andrew Lin, Rice University, 09/2012-2013  
Michael Zhao, Rice University, 09/2012-05/2015  
Daniel Lee, Rice University, 08/2014-2016  
Alexis Williams, Rice University, 02/2016-2017  
Muthu Chidambaram, Rice University, 07/2018-01/2019  
Sumin Son, Rice University, 05/2019-12/2019  
Shruti Shah, Rice University, 05/2019-08/2020  
Sameer Sidiq, University of Houston, 01/2020-08/2020

### *High School Students*

Andrew Lee, Clements High School, Sugar Land, TX, 06/2013-06/2014  
Praneeth Kambampati, DeBakey High School, Houston, TX, 09-12/2014  
Sabina Madland, St. John's High School, Houston, TX, 06-08/2015  
Margaret Gillett, St. John's High School, Houston, TX, 06-08/2018

### *Thesis Committees*

Melissa Aldrich, Biochemistry Dept., University of Texas, Houston, 1998-2003  
Heather Yarnall, Cellular and Molecular Biology Program, BCM, 1999-2003  
Helen Andersson, Department of Immunology, BCM, 1999-2004  
Alex George, Department of Molecular and Human Genetics, BCM, 2001-2003  
Dongsu Park, Department of Immunology, BCM, 2003-2007  
William Buitrago, Department of Molecular and Cellular Biology, BCM, 2003-2008  
Feyza Engin, Department of Molecular and Human Genetics, BCM, 2003-2005  
Colleen McDaniel, Department of Molecular and Human Genetics, BCM, 2003-2005  
Yiyun Chen, Department of Molecular and Cellular Biology, BCM, 2006-2008  
Ju-Yun (Judi) Tsai, Medicine-Cardiovascular Science, BCM, 2006-2008  
Laura Jo Zitur, Department of Molecular and Cellular Biology, BCM, 2006-2008  
Russell Cruz, Translational Biology and Molecular Medicine, BCM, 2008-2011  
Ma Wan, Department of Biochemistry, BCM, 2003-2009  
Caleb Gonzalez, Department of Molecular and Human Genetics, BCM, 2003-2009  
Stephanie Greene, Department of Molecular and Cellular Biology, BCM, 2004-2009  
Melissa Boles, Department of Cell and Molecular Biology, BCM, 2005-2009  
Julian Senac, Department of Molecular and Human Genetics, BCM, 2005-2009  
Chris Chen, Department of Molecular and Human Genetics, BCM, 2005-2009  
Li-Fang Chu, Department of Molecular and Cellular Biology, BCM, 2006-2011  
Nya Danielle Nelson, Molecular and Human Genetics, BCM, 2011-2014  
Ryan Duren, Department of Cell and Molecular Biology, BCM, 2008-2012  
Fatih Semerci, Developmental Biology, BCM, 2011-2017  
Ye Shen, Department of Cell and Molecular Biology, BCM, 2012-2017  
Pablo Freire, Department of Molecular and Cellular Biology, BCM, 2013-2017  
Angelique Lin, Department of Molecular and Human Genetics, BCM, 2014-2016  
Zer Vue, Developmental Biology, BCM, 2013-2018  
Nicholas Neil, Department of Molecular and Human Genetics, BCM, 2013-2019  
Richard Chappelle, Department of Molecular and Human Genetics, BCM, 2014-2018  
Ninad Oak, Department of Molecular and Human Genetics, BCM, 2014-2018  
Jarey Wang, MSTP and TBMM, BCM, 2015-2019  
Tong Liang, Department of Molecular and Human Genetics, BCM, 08/2018-2019  
Hadley Sheppard, Department of Molecular and Human Genetics, BCM, 2019-2020  
Manar Zaghlula, Translational Biology and Molecular Medicine, BCM, 2015-2021  
Yu-Jung (Nina) Tseng, Department of Molecular and Human Genetics, BCM, 2017-2022  
Hannah Yan, Immunology, BCM, 2017-2022  
Eric Andrew Smith, Department of Molecular and Cellular Biology, BCM, 2018-2020  
Courtney Chambers, Translational Biology and Molecular Medicine, BCM, 07/2021-2023  
Emily Park, Development, Disease Models & Therapeutics, BCM, 10/2022-present  
Apoorva Thatavarty, Genetics and Genomics, BCM, 12/2022-present

### **PERSONAL**

Born: March 23, 1965, Baltimore, MD, USA  
Married with three daughters (ages 23, 20 and 18)