Scott William Lowe, Ph.D.

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Member, Memorial Sloan-Kettering Cancer Center

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EDUCATION

1994	Ph.D. (Biology), Massachusetts Institute of Technology
1986	B.S. (Biochemistry & Molecular Biology), University of Wisconsin-Madison

RESEARCH TRAINING

1994 – 1995	Postdoctoral Research, Center for Cancer Research, M.I.T.
1988 – 1994	Graduate Research, Center for Cancer Research, M.I.T.
1986 – 1988	Research Technician, Dept. of Biochemistry, UW-Madison
1985 – 1986	Undergraduate Research, Dept. of Biochemistry, UW-Madison

RESEARCH APPOINTMENTS

2014 – pres.	Chair, Cancer Biology and Genetics Program, Sloan Kettering Institute
2012 – 2015	Associate Director for Basic Cancer Research, Memorial Sloan Kettering Cancer Center
2011 – pres.	Chair, Geoffrey Beene Center, Memorial Sloan-Kettering Cancer Center
2011 – pres.	Member, Memorial Sloan Kettering Cancer Center
2011 – pres.	Adjunct Professor, Cold Spring Harbor Laboratory
2010 – 2011	Head, Hillside Campus, Cold Spring Harbor Laboratory
2007 – 2011	Program Chair, Cancer and Molecular Biology, Cold Spring Harbor Laboratory
2005 – pres.	Investigator, Howard Hughes Medical Institute
2004 – 2009	Head, James Laboratory, Cold Spring Harbor Laboratory
2001 – 2011	Deputy Director, Cold Spring Harbor Laboratory Cancer Center
2000 – 2011	Professor, Cold Spring Harbor Laboratory
1999 – 2000	Associate Professor, Cold Spring Harbor Laboratory
1998 – 1999	Associate Investigator, Cold Spring Harbor Laboratory
1996 – 1998	Assistant Investigator, Cold Spring Harbor Laboratory
1995 – 1996	Cold Spring Harbor Fellow, Cold Spring Harbor Laboratory

ACADEMIC APPOINTMENTS

2011 – pres.	Professor, Weill Cornell Graduate School of Medical Sciences
2011 – pres.	Professor, Gerstner Sloan-Kettering Graduate School of Biomedical Sciences
2005 – 2011	Faculty Member, Molecular and Cellular Biology Program, Stony Brook University
2000 – 2011	Adjunct Professor, Dept. of Physiology and Biophysics, Stony Brook University
1999 – 2005	Executive Committee, Watson School of Biological Sciences, Cold Spring Harbor
1999 – 2011	Professor, Watson School of Biological Sciences, Cold Spring Harbor
1996 – 2011	Faculty Member, Genetics Program, Stony Brook University

SCIENTIFIC REVIEW ADVISORY BOARDS

Scientific Publishing (selected)

2009 – pres.	Editorial Board, Cell
2002 – pres.	Editorial Board, Cancer Cell

Grant Review (selected)

2006/09/15/20	Ad-Hoc, various NIH panels
1999 – 2004	Member, Subcommittee C, NCI (parent committee)
1997	Ad-Hoc Member, CBY-1 Study Section, NIH

Advisory Boards (selected)

2019 – pres.	Scientific Advisory Board, Faeth Pharmaceuticals

2019 – pres.	External Advisory Board, University of Colorado Cancer Center
2015 – 2020	Scientific Advisory Board, Petra Pharmaceuticals
2015 – 2021	Scientific Advisory Board, Salk Institute Cancer Center
2015 – pres.	Scientific Advisory Board, Yale Cancer Center
2014 – pres.	Scientific Advisory Board, ORIC Pharmaceuticals
2013 – pres.	Scientific Advisory Board, Spanish National Cancer Center (CNIO)
2013 – pres.	Scientific Advisory Board, PMV Pharmaceuticals
2012 – 2015	Scientific Advisory Board, New York Genome Center
2011 – pres.	Scientific Advisory Board, Blueprint Medicines
2011 – pres.	Scientific Advisory Board, Mirimus, Incorporated
2009 – pres.	Scientific Advisory Board, Mt. Sinai Cancer Center
2009 – pres.	Scientific Advisory Board, Constellation Pharmaceuticals
2007 – 2011	Scientific Advisory Board, Lustgarten Foundation
2005 – 2008	Board of Directors, American Association for Cancer Research
2005 – 2009	Co-Chair, Mouse Models of Human Cancer Consortium, National Cancer Institute
2004 – 2008	Scientific Advisory Board, MGH Cancer Center
2003 – 2007	Scientific Advisory Board, Wistar Institute
2003 – 2008	External Advisory Board, University of Chicago Cancer Center
2003 – 2006	Science Policy and Legislative Affairs Committee, AACR
2001 – 2008	External Advisory Board, NYU Cancer Center

Meeting Organization (selected)

2021	Organizer, “Precision Oncology: Translating Discovery to the Clinic”, Keystone
2019	Organizer, “The Tumour Cell: Plasticity, Progression and Therapy”, Nature-MSKCC
2017/19/21	Organizer, “Cancer Biology”, Cold Spring Harbor
2016	Organizer, “Targeting Cancer”, Cold Spring Harbor Symposium
2016	Organizer, “Cancer as an Evolving and Systemic Disease”, Nature-MSKCC
2014	Chairman, “Harnessing Breakthroughs, Targeting Cures”, AACR Annual Meeting
2013	Organizer, “Frontiers in Basic Cancer Research”, AACR Special Conference
2011/13	Organizer, “Cell Death”, Cold Spring Harbor
2010	Organizer, “Watson Symposium”, Cold Spring Harbor Asia
2009	Organizer, “Mouse Models of Human Cancer”, AACR Special Conference
2008	Organizer, “MicroRNAs and Cancer Biology”, National Cancer Institute
2007	Organizer, “Mouse models at the frontiers of cancer discovery”, Keystone Symposia
2006	Organizing Committee, AACR Annual Meeting
2006	Organizer, “Mouse Models of Human Cancer”, AACR Special Conference
2004	Organizer, “Cell Death and Senescence”, Keystone Symposia
2003	Organizer, “Apoptosis and Development”, Keystone Symposia
2002	Organizer, “Apoptosis and Cancer”, CNIO Symposium
1999	Organizer, "Apoptosis", AACR Special Conference
1998	Education Committee, AACR Annual Meeting
2000/02/04/06	Organizer, "Cancer Genetics and Tumor Suppressor Genes", Cold Spring Harbor
1998 – 2002	Organizing Committee, AACR Annual Meeting
1997	Organizer, “The biology of p53” Banbury Center, Cold Spring Harbor

HONORS AND AWARDS

2019	Member, National Academy of Medicine
2018	AACR G.H.A. Clowes Memorial Award
2017	Honorary Professor, China Medical University
2017	Member, National Academy of Sciences
2016	Honorary Doctor of Medicine (Dr. med. h.c.), Goethe University
2013	Member, American Academy of Arts and Sciences
2013	Alfred G. Knudsen Award, National Cancer Institute
2011	Kunio Yagi Medal, Int. Union of Biochem. and Mol. Bio.
2008	Colin Thomson Memorial Medal, Int. Assoc. for Cancer Research
2006	American Association for Advancement of Science, Fellow

2005 Paul Marks Prize for Cancer Research
2005 Investigator, Howard Hughes Medical Institute
2004 AACR-NFCR Professorship in Basic Cancer Research
2000 AACR Award for Outstanding Achievement in Cancer Research
1999 Rita Allen Foundation Scholar
1997 Sydney Kimmel Foundation Scholar
1995 Cold Spring Harbor Laboratory Fellow
1994 Anna Fuller Postdoctoral Fellow
1993 AACR Travel Award – Apoptosis
1985 Mary Shine Peterson Undergraduate Scholarship

Honorary Lectures

2019 Albert Einstein Cancer Center Distinguished Lecture, New York, NY
2019 Marc J. Mass Memorial Distinguished Lecture, University of North Carolina at Chapel Hill, NC
2019 Keynote, International Symposium of Cell Fate Determination and Human Diseases, Shanghai, China
2019 Keynote, 27th Conference of the European Cell Death Organization, Dresden, Germany
2019 Ashely Dunn Oration, Lorne Cancer Conference, Lorne, Australia
2019 Renato Dulbecco Lecture, Salk Institute, La Jolla, CA
2018 Keynote, ESH International Conference on Myeloproliferative Neoplasms, Saggart (Dublin), Ireland
2018 Keynote, International Conference on Drug Target and Drug Discovery, Chengdu, China
2017 Keynote, AACR New Horizons in Cancer Research Conference, Shanghai, China
2017 Keynote, AACR Special Conference on Advances in Modeling Cancer in Mice, Orlando, FL
2017 Benjamin Trump Lecture, Aspen Cancer Conference, Aspen, CO
2017 Keynote, AEK Cancer Congress (Abteilung Experimentelle Krebsforschung), Heidelberg, Germany
2016 Keynote, ICSA Cellular Senescence: From Mechanisms to Therapeutic Opportunities, Rehovot, Israel
2016 Keynote, VHIO Special Symposium: Towards Predictive Cancer Models, Barcelona, Spain
2016 Keynote, Cold Spring Harbor Asia Conference on Liver Diseases and Tumorigenesis, Suzhou, China
2015 Peter Doherty Lecture, St. Jude Children's Research Hospital, Memphis, TN
2015 Keynote, AACR Molecular Biology in Clinical Oncology Workshop, Snowmass Village, CO
2015 Keynote, International Cell Death Society, Prague, Czech Republic
2015 Keynote, Revson Foundation Fellowship Program in Biomedical Science, New York, NY
2015 Keynote, Gordon Research Conference: Cancer Genetics & Epigenetics, Lucca (Barga), Italy
2014 Keynote, CRG 13th Symposium Gene Regulation, Stem Cells and Cancer, Barcelona, Spain
2014 Keynote, Keystone Symposia: Cell Death Signaling in Cancer, Sao Paulo, Brazil
2014 Keynote, University of Michigan: Cancer Biology Program Retreat, Ann Arbor, MI
2014 Keynote, EACR: Cell Death and Cancer, Amsterdam, Netherlands
2013 Keynote, FASEB Conference on Hematologic Malignancies, Saxton River, VT
2013 Keynote, Congress of the German Society of Pathology, Berlin, Germany
2013 Keynote, Challenges and Solutions in Cancer Research and Treatment, Rio de Janeiro, Brazil
2013 Keynote, EMBO Cycling to Death, Obergurgl, Austria
2012 Keynote, NCI/MMHCC Mouse Models of Prostate Cancer Symposium, New York, NY
2011 Keynote, Keystone Symposia: MicroRNAs and Non-Coding RNAs and Cancer, Banff, Alberta, Canada

PUBLICATIONS – Primary Research Articles – Highlights

32. Alonso-Curbelo, D, Ho, YJ, Burdziak, C, Maag, JLV, Morris IV, JP, Chandwani, R, Chen, HA, Tsanov, KM, Barriga, FM, Luan, W, Tasdemir, N, Livshits, G, Azizi, E, Chun, J, Wilkinson, JE, Mazutis, L, Leach, SD, Koche, R, Pe'er, D, Lowe, SW. (2021). A gene–environment-induced epigenetic program initiates tumorigenesis. Nature. 590:642-648. PMID: 33536616.

31. Amor, C, Feucht, J, Leibold, J, Ho, YJ, Zhu, C, Alonso-Curbelo, D, Mansilla-Soto, J, Boyer, JA, Li, X, Giavridis, T, Kulick, A, Houlihan, S, Peerschke, E, Friedman, SL, Ponomarev, V, Piersigilli, A, Sadelain, M, Lowe, SW. (2020). Senolytic CAR T Cells Reverse Senescence-Associated Pathologies. Nature. 583:127-132. PMID: 32555459. PMCID: PMC7583560.

30. Ruscetti, M, Morris IV, JP, Mezzadra, R, Russell, J, Leibold, J, Romesser, PB, Simon, J, Kulick, A, Ho, YJ, Fennell, M, Li, J, Norgard, RJ, Wilkinson, JE, Alonso-Curbelo, D, Sridharan, R, Heller, DA, de Stanchina, E, Stanger, BZ, Sherr, CJ, Lowe, SW. (2020). Senescence-Induced Vascular Remodeling Creates Therapeutic Vulnerabilities in Pancreas Cancer. Cell. 181:424-441. PMID: 32234521. PMCID: PMC7278897.

29. Morris IV, JP, Yashinskie, JJ, Koche, R, Chandwani, R, Tian, S, Chen, C-C, Baslan, T, Marinkovic, ZS, Sanchez-Rivera, FJ, Leach, SD, Carmona-Fontaine, C, Thompson, CB, Finley, LWS, Lowe, SW. (2019). Alpha-ketoglutarate links p53 to cell fate during tumor suppression. Nature. 573:595-599. PMID: 31534224. PMCID: PMC6830448.

28. Ruscetti, M, Leibold, J, Bott, MJ, Fennell, M, Kulick, A, Chen, C-C, Baslan, T, Salgado, NR, Sanchez-Rivera, FJ, Tian, S, Romesser PB, Poirier, JT, Rudin, CM, de Stanchina, E, Manchado, E, Sherr, CJ, and Lowe, SW (2018). NK cell-mediated cytotoxicity contributes to tumor control by a cytostatic drug combination. Science. 362:1416-1422. PMID: 30573629. PMCID: PMC6711172.

27. Tasdemir, N, Banito, A, Alonso-Curbelo, D, Ro, J-S, Camiolo, M, Tschaharganeh, DF, Huang, C-H, Aksoy, O, Bolden, JE, Chen, C-C, Fennell, M, Thapar, V, Chicas, A, Vakoc, CR, and Lowe, SW (2016). BRD4 connects super enhancer remodeling to senescence immune surveillance. Cancer Discov. 6:612-29. PMID: 27099234. PMCID: PMC4893996.

26. Manchado, E, Weissmueller, S, Wullenkord, R, Lujambio, A, de Stanchina, E, Poirier, JT, Rudin, CM, Rosen, N, Lowe, SW (2015). A combinatorial strategy for treating KRAS mutant lung cancer. Nature. 534:647-51. PMID: 27338794. PMCID: PMC4939262.

25. Liu, Y, Chen, C, Xu, Z, Scuoppo, C, Rillahan, C, Gao, J, Spitzer, B, Bosbach, B, Kastenhuber, ER, Baslan, T, Ackermann, S., Cheng, L, Wang, Q, Niu, T, Schultz, N, Levine. RL, Mills, A, and Lowe, SW (2016). Deletions linked o TP53 loss drive cancer through p53-independent mechanisms. Nature. 531:471-5. PMID: 26982726. PMCID: PMC4836395.

24. Dow, LE, O'Rourke KP, Simon, J, Tschaharganeh, DF, van Es, JH, Clevers, H and Lowe, SW (2015). Apc restoration promotes cellular differentiation and reestablishes crypt homeostasis in colorectal cancer. Cell. 7:1539-52. PMID: 26091037. PMCID: PMC4475279.

23. Tschaharganeh, DF, Xue, W, Calvisi, DF, Evert, M, Michurina, TV, Dow, LE, Banito, A, Katz, SF, Kastenhuber, ER, Weissmueller, S, Huang, C-H, Lechel, A, Andersen, JB, Capper, D, Zender, L, Longerich, T, Enikolopov, G, and Lowe, SW (2014) p53 dependent Nestin regulation links tumor suppression to cellular plasticity in liver cancer. Cell. 158:579-592. PMID: 25083869. PMCID: PMC4221237.

22. Miething, C, Scuoppo, C, Bosbach, B, Appelmann, I, Nakitandwe, J, Ma, G, Wu, G, Lintault, L, Auer, M, Premsrirut, P, Teruya-Feldstein, J, Hicks, J, Benveniste, H, Speicher, MR, Downing, JR and Lowe, SW (2014). PTEN action in leukemia dictated by the tissue microenvironment. Nature. 510:402-6. PMID: 24805236. PMCID: PMC4165899.

21. Weissmueller, S, Manchado, E, Saborowski, M, Morris IV, JP, Wagenblast, E, Davis, CA, Moon, S-H, Pfister, NT, Tschaharganeh, DF, Kitzing, T, Aust, D, Markert, EK, Jianmin, W, Grimmond,

SM, Pilarsky, C, Prives, CP, Biankin, AV, and Lowe, SW (2014). Mutant p53 drives pancreatic cancer metastasis through cell-autonomous PDGF receptor beta signaling. Cell. 157:382-94. PMID: 24725405. PMCID: PMC4001090.

20. Lujambio A, Akkari L, Simon J, Grace D, Bolden JE, Zhao Z, Thapar V, Joyce J, Krizhanovsky V, Lowe SW (2013). Non-cell-autonomous tumor suppression by p53. Cell. 153:449-60. PMID: 23562644. PMCID: PMC3702034.

19. Scuoppo, C, Miething, C, Lindqvist, L, Reyes, J, Ruse, C, Appelmann, I, Yoon, S, Krasnitz, A, Teruya-Feldstein, J, Pappin, D, Pelletier, J, and Lowe, SW (2012) A tumor suppressor network relying on the polyamine-hypusine axis. Nature. 487:244-8. PMID: 22722845. PMCID: PMC3530829.

18. Zuber, J, Shi, J, Wang, E, Rappaport, AR, Herrmann, H, Sison, EA, Magoon, D, Qi, J, Blatt, K, Wunderlich, M, Taylor, MJ, Johns, C, Chicas, A, Mulloy, JC, Kogan, SC, Brown, P, Valent, P, Bradner, JE, Lowe, SW, and Vakoc CR (2011). RNAi screen identifies Brd4 as a therapeutic target in acute myeloid leukaemia. Nature. 478:524-8. PMID: 21814200. PMCID: PMC3328300.

17. Premsrirut, PK, Dow, LE, Kim, YK, Malone, CD, Scuoppo, Cl, Zuber, J, Miething, C, Dickins, RA, Hannon, GJ, and Lowe, SW (2011) A rapid and scalable system for studying gene function in mice using conditional RNA interference. Cell. 145:145-58. PMID:21458673. PMCID: PMC3244080.

16. Chicas, A, Zhang, C, Wang, X, McCurrach, M, Zhao, Z, Dickins, R, Narita, M, Zhang, M, and Lowe, S (2010) Dissecting the unique role of the retinoblastoma tumor suppressor during cellular senescence. Cancer Cell. 17:376-87. PMID: 20385362. PMCID: PMC2889489.

15. Zender, L, Xue, W, Zuber, J, Semighini, CP, Krasnitz, A, Ma, B, Zender, P, Kubicka, S, Luk, JM, Schirmacher, P, McCombie, RW, Wigler, M, Hicks, J, Hannon, GJ, Powers, S, and Lowe SW (2008). An oncogenomics-based in vivo RNAi screen identifies new tumor suppressors in liver cancer. Cell. 135:852-64. PMID: 19012953. PMCID: PMC2990916.

14. Krizhanovsky, V, Yon, M, Dickins, RA, Hearn, S, Simon, J, Miething, C Yee, H, Zender, L, and Lowe, SW (2008). Senescence of activated stellate cells limits liver fibrosis. Cell. 134:657-67. PMID: 18724938. PMCID: PMC3073300.

13. Dickins, RA, McJunkin, K, Hernando, E, Premsrirut, PK, Krizhanovsky, V, Burgess, DJ, Kim, SY, Cordon-Cardo, C, Zender, L, Hannon, GJ, and Lowe, SW (2007). Tissue-specific and reversible RNAi in transgenic mice. Nat. Genet. 39:914-21. PMID: 17572676. PMCID: PMC4595852.

12. Zender, L, Spector, MS, Xue, W, Flemming, P, Cordon-Cardo, C, Silke, J, Fan., S-T, Luk, JM, Wigler, M, Hannon, GJ, Mu, D, Lucito, R, Powers, S, and Lowe, SW (2006). Identification and validation of oncogenes in liver cancer using an integrative oncogenomic approach. Cell. 125:1253-67. PMID: 16814713. PMCID: PMC3026384.

11. Hemann, MT, Bric, A, Teruya-Feldstein, J, Herbst, A, Nilsson, JA, Cordon-Cardo, C, Cleveland, JL, Tansey, WP, and Lowe, SW (2005). Evasion of the p53 tumor surveillance network by tumor derived myc mutants. Nature. 436:807-11. PMID: 16094360. PMCID: PMC4599579.

10. Hernando, E, Nahle, Z, Juan, G, Diaz-Rodriguez, E, Alaminos, M, Hemann, M, Michel, L, Mittal, V, Gerald, W, Benezra, R, Lowe, SW*, and Cordon-Cardo, C (2004). Rb inactivation promotes genomic instability by uncoupling cell cycle progression from mitotic control. Nature. 430:797-802. (*corresponding author). PMID: 15306814.

9. Narita, M, Nuñez, S, Heard, E, Narita, M, Lin, AW, Hearn, SA, Spector, DL, Hannon, GJ, and Lowe, SW (2003). Rb-mediated heterochromatin formation and silencing of E2F target genes during cellular senescence. Cell. 113:703–16. PMID: 12809602.

8. Hemann, MT, Fridman, JS, Zilfou, JT, Hernando, E, Paddison, PJ, Cordon-Cardo, C, Hannon, GJ, and Lowe, SW. (2003). An epi-allelic series of p53 hypomorphs created by stable RNAi produces distinct tumor phenotypes in vivo. Nat. Genet. 33:396-400. PMID: 12567186.

7. Schmitt, CA, Fridman, JS, Yang. M, Lee, S, Baranov, E, Hoffman, RM, and Lowe, SW (2002). A senescence program controlled by p53 and p16INK4a contributes to anticancer treatment outcome in vivo. (2002). Cell. 109:335-46. PMID: 12015983.

6. de Stanchina, E, McCurrach, ME, Zindy, F, Shieh, S-Y, Ferbeyre, G, Samuelson, AV, Prives, C, Roussel, MF, Sherr, CJ, and Lowe, SW (1998). E1A signaling to p53 involves the p19ARF tumor suppressor. Genes Dev. 12: 2434-42. PMID: 9694807. PMCID: PMC317046.

5. Serrano, M, Lin, A, McCurrach, ME, Beach, D, and Lowe, SW. (1997). Oncogenic ras provokes premature cell senescence associated with accumulation of p53 and p16INK4a. Cell. 88:593-602. PMID: 9054499.

4. Lowe, SW, Bodis, S, Remington, L, Ruley, HE, Fisher, D, Housman, DE, and Jacks, T. (1994). p53 status and the efficacy of cancer therapy in vivo. Science. 266:807-10. PMID: 7973635.

3. Lowe, SW, Ruley, HE, Jacks, T, and Housman, DE. (1993). p53-dependent apoptosis modulates the cytotoxicity of anticancer agents. Cell 74:957-67. PMCID: PMC8402885.

2. Lowe, SW, Schmitt, EM, Smith, SW, Osborne, BA, and Jacks, T. (1993). p53 is required for radiation-induced apoptosis in mouse thymocytes. Nature 362:847-9. PMCID: PMC8479522.

1. Lowe, SW and Ruley, HE. (1993). Stabilization of the p53 tumor suppressor is induced by adenovirus E1A and accompanies apoptosis. Genes Dev. 7:535-45. PMID: 8384579.

PUBLICATIONS – Primary Research Articles – Other work

235. Soto-Feliciano, YM*, Sánchez-Rivera, FJ*, Barrows, DW, Gates, L, Cheon, D, Carroll, T, Ho, YJ, Kastenhuber, E, Beytagh, MC, Armstrong, SA, Lowe, SW#, Allis, CD#. Antagonism between mammalian MLL complexes dictates response to epigenetic therapies. (*Co-first author, #Co-corresponding author.) In Review at Cell.

234. Baslan, T.*, Morris IV, J.P.*, Zhao, Z.*, Reyes, J, Ho, Y-J., Bermeo, J., Askan, G., Zhang, A., Wu, J., Gularte-Merida, R., Notta, F., Iacobuzio-Donahue, C.A., Lowe, S.W. Lineage tracing of sporadic loss of p53 heterozygosity reveals ordered and selective patterns of cancer genome evolution. (*Equally contributing authors). In preparation.

233. Luckett, KA, Cracchiolo, JR, Krishnamoorthy, GP, Leandro-Garcia, LJ, Nagarajah, J, Saqcena, M, Lester, R, Im, SY, Zhao, Z, Lowe, SW, de Stanchina, E, Sherman, EJ, Ho, AL, Leach, SD, Knauf, JA, Fagin, JA. (2021). Co-inhibition of SMAD and MAPK signaling enhances 124I uptake in BRAF-mutant thyroid cancers. Endocr Relat Cancer. 2021 May 1:ERC-21-0017.R1. Online ahead of print. PMID: 33890869

232. Jiménez-Alcázar, M, Curiel-García, Á, Nogales, P, Perales-Patón, J, Schuhmacher, AJ, Galán-Ganga, M, Zhu, L, Lowe, SW, Al-Shahrour, F, Squatrito, M. (2021). Dianhydrogalactitol Overcomes Multiple Temozolomide Resistance Mechanisms in Glioblastoma. Mol Cancer Ther. 2021 Apr 12. Online ahead of print. PMID: 33846235

231. Prasanna, PG, Citrin, DE, Hildesheim, J, Ahmed, MM, Venkatachalam, S, Riscuta, G, Xi, D, Zheng, G, van Deursen, J, Goronzy, J, Kron, SJ, Anscher, MS, Sharpless, NE, Campisi, J, Brown, SL, Niedernhofer, LJ, O'Loghlen, A, Georgakilas, AG, Paris, F, Gius, D, Gewirtz, DA, Schmitt, CA, Abazeed, ME, Kirkland, JL, Richmond, A, Romesser, PB, Lowe, SW, Gil, J, Mendonca, MS, Burma, S, Zhou, D, Coleman, CN. (2021). Therapy-Induced Senescence: Opportunities to Improve Anti-Cancer Therapy. J Natl Cancer Inst. 2021 Apr 1:djab064. Online ahead of print. PMID: 33792717.

230. Rapaport, F, Neelamraju, Y, Baslan, T, Hassane, D, Gruszczynska, A, de Massy, MR, Farnoud, NR, Haddox, S, Lee, T, Medina-Martinez, J, Sheridan, C, Thurmond, A, Becker, M, Bekiranov, S, Carroll, M, Valk, PJM, Bullinger, L, D'Andrea, R, Lowe, SW, Neuberg, D, Levine, RL, Melnick, A, Garrett-Bakelman, F. (2021). Genomic and evolutionary portraits of disease relapse in Acute Myeloid Leukemia. Leukemia. 2021 Feb 12. Online ahead of print. PMID: 33580203.

229. Bieging-Rolett, KT, Kaiser, AM, Morgens, DW, Boutelle, AM, Seoane, JA, Van Nostrand, EL, Zhu, C, Houlihan, SL, Mello, SS, Yee, BA, McClendon, J, Pierce, SE, Winters, IP, Wang, M, Connolly, AJ, Lowe, SW, Curtis, C, Yeo, GW, Winslow, MM, Bassik, MC, Attardi, LD. (2020). Zmat3 Is a Key Splicing Regulator in the p53 Tumor Suppression Program. Mol Cell. 80:452-469. PMID: 33157015. PMCID: PMC7654708.

228. Schneider, WM, Luna, JM, Hoffmann, HH, Sánchez-Rivera, FJ, Leal, AA, Ashbrook, AW, Le Pen, J, Ricardo-Lax, I, Michailidis, E, Peace, A, Stenzel, AF, Lowe, SW, MacDonald, MR, Rice, CM, Poirier, JT. (2021). Genome-Scale Identification of SARS-CoV-2 and Pan-coronavirus Host Factor Networks. Cell. 184:120-132. PMID: 33382968.

227. Zhu, C, Ho, YJ, Salomao, MA, Dapito, DH, Bartolome, A, Schwabe, RF, Lee, JS, Lowe, SW, Pajvani, UB. (2021). Notch activity characterizes a common hepatocellular carcinoma subtype with unique molecular and clinicopathologic features. J Hepatol. 74:613-626. PMID: 33038431. PMCID: PMC7897246.

226. Chen, M, Chen, X, Li, S, Pan, X, Gong, Y, Zheng, J, Xu, J, Zhao, C, Zhang, Q, Zhang, S, Qi, L, Wang, Z, Shi, K, Ding, BS, Xue, Z, Chen, L, Yang, S, Wang, Y, Niu, T, Dai, L, Lowe, SW, Chen, C, Liu, Y. (2020). An epigenetic mechanism underlying chromosome 17p deletion-driven tumorigenesis. Cancer Discov. 2020 Sep 25:CD-20-0336. Online ahead of print. PMID: 32978226.

225. Hoffmann, HH, Sánchez-Rivera, FJ, Schneider, WM, Luna, JM, Soto-Feliciano, YM, Ashbrook, AW, Le Pen, J, Leal, AA, Ricardo-Lax, I, Michailidis, E, Hao, Y, Stenzel, AF, Peace, A, Zuber, J, Allis, CD, Lowe, SW, MacDonald, MR, Poirier, JT, Rice, CM. (2021). Functional interrogation of a SARS-CoV-2 host protein interactome identifies unique and shared coronavirus host factors. Cell Host Microbe. 29:267-280. PMID: 33357464.

224. Ganesh, K, Basnet, H, Kaygusuz, Y, Laughney, AM, He, L, Sharma, R, O'Rourke, KP, Reuter, VP, Huang, YH, Turkekul, M, Emrah, E, Masilionis, I, Manova-Todorova, K, Weiser, MR, Saltz, LB, Garcia-Aguilar, J, Koche, R, Lowe, SW, Pe'er, D, Shia, J, Massagué, J. (2020). L1CAM defines the regenerative origin of metastasis-initiating cells in colorectal cancer. Nat Cancer. 1:28-45. PMID: 32656539. PMCID: PMC7351134.

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37. Fellmann, C and Lowe, SW (2014). Shutting it down: Stable RNA interference rules for silencing. Nat. Cell Biol. 16: 10-8. PMID: 24366030. PMCID: PMC4001088.

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23. Zilfou, JT, Spector, MS, and Lowe, SW (2005). SLUGging it out: Fine tuning the p53-PUMA death connection. Cell 123: 545-8. PMID: 16286002. NIHMS723334.

22. Narita, M and Lowe, SW (2005). Senescence comes of age. Nature Med. 11: 920-2. PMID: 16145569.

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3. Lowe, SW and Ruley, HE (1996). p53-dependent apoptosis in tumor progression and in cancer therapy. In Cellular Aging and Cell Death, Modern Cell Biology vol. 16, N. Holbrook, Martin, G. R., and Lockshin, R. A., eds. (New York: Wiley-Liss, Inc.), pp. 209-34.

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LABORATORY MEMBERS

Current Graduate Students

2020– Margaret Kennedy, BS, The College of New Jersey, Ewing, NJ
2020– Caroline Broderick, BS, University of California, Santa Barbara, CA
2017– Corina Amor Vegas, MD, Complutense University of Madrid, Spain
2016– Stella Paffenholz, MS, German Cancer Research Center (DKFZ), Heidelberg, Germany
2016– Sean (Hsuan-An) Chen, BS, National Taiwan University, Taipei, Taiwan
2015– Grace (Xiang) Li, MS, The Ohio State University, Columbus, Ohio

Current Postdoctoral Fellows

2020– Bryan Ngo, PhD, Weill Cornell Medical College, New York, NY
2020– Zeda Zhang, PhD, Gerstner Sloan Kettering Graduate School, New York, NY
2020– Almudena Chaves, PhD, Autonomous University of Madrid, Spain
2019– Changyu Zhu, PhD, Columbia University, New York, NY
2019– José Reyes, PhD, Harvard University, Cambridge, MA
2018– Riccardo Mezzadra, PhD, Netherlands Cancer Institute, Amsterdam, Netherlands
2017– Kaloyan Tsanov, PhD, Harvard University, Cambridge, MA
2017– Francisco Barriga, PhD, University Pompeu Fabra, Barcelona, Barcelona, Spain
2016– Francisco Sanchez-Rivera, PhD, Massachusetts Institute of Technology, Cambridge, MA
2014– Timour Baslan, PhD, Cold Spring Harbor Laboratory/Stony Brook University, Stony Brook, NY
2013– Direna Alonso Curbelo, PhD, Autonomous University of Madrid, Spain

Past Graduate Students

2014–19 Evangelia Loizou, PhD, Weill Cornell Medical College, New York, NY
Current position: Product Development Manager, NIPD Genetics, New York, NY
2014–19 Edward Kastenhuber, PhD, Gerstner Sloan Kettering Graduate School, New York, NY
Current position: Postdoctoral Associate, Weill Cornell Medical College, New York, NY
2012–19 Chi-Chao Chen, PhD, Weill Cornell Medical College, New York, NY
Current position: Data Scientist, Agios Pharmaceuticals, Inc., Cambridge, MA
2013–17 Kevin O'Rourke, MD-PhD, Weill Cornell Medical College, New York, NY
Current position: Investments, Roivant Sciences, New York, NY
2011–16 Chun-Hao Huang, PhD, Weill Cornell Medical College, New York, NY
Current position: Co-Founder & CEO, Algen Biotechnologies, San Francisco, CA
2009–14 Susann Weissmuller, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Strategic Partnering Associate, Roche, Basel, Switzerland
2009–14 Nilgun Tasdemir, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Senior Scientist, Functional Genomics, Target Sciences, Pfizer, New York
2009–14 Ozlem Aksoy (née Mert), PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Senior Scientist, Pfizer, San Francisco, CA
2008–14 Saya Ebbesen, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Director, Medical & Scientific Strategy, BluPrint Oncology, London
2008–11 Christof Fellmann, PhD, Cold Spring Harbor Laboratory, NY / University of Zurich, Switzerland
Current position: Research Investigator, Gladstone Institute, San Francisco, CA
2007–11 Amy Rappaport, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Associate Director, Gritstone Oncology, San Francisco, CA
2007–11 Claudio Scuoppo, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Instructor, Columbia University, New York, NY
2007–08 Camile Semighini, PhD, University of Nebraska, Lincoln, NE
Current position: Founder & CEO, InnoCreating Consulting LLC, West Orange, NJ

2006–10 Katherine McJunkin, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Tenure-track Investigator, NIH Intramural Research Program, Bethesda, MD
2005–10 Prem Premsrirut, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: President & CEO, Mirimus Inc., New York, NY
2005–09 Wen Xue, PhD, Stony Brook University, Stony Brook, NY
Current position: Assistant Professor, University of Massachusetts, Worcester, MA
2003–07 Darren Burgess, PhD, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, NY
Current position: Assistant Editor, Nature Reviews Cancer, United Kingdom

Past Postdoctoral Fellows

2012–20 John P. Morris IV, PhD, University of California, San Francisco, CA
Current position: Assistant Professor, Department of Pharmacology, University of North Carolina, Chapel Hill, NC
2015–20 Josef Leibold, MD, University of Tübingen, Germany
Current position: Group Leader, University of Tübingen, Germany
2015–20 Marcus Ruscetti, PhD, University of California, Los Angeles, CA
Current position: Assistant Professor, Molecular, Cell & Cancer Biology, University of Massachusetts Medical School, Worcester, MA
2014–20 Shauna Houlihan, PhD, Northwestern University-Feinberg School of Medicine, Chicago, IL
Current position: Associate Director, Liver Research, Englander Institute for Precision Medicine, Weill Cornell Medicine, New York, NY
2016–19 Katerina Hatzi, PhD, Weill Cornell Medical College, New York, NY
Current position: Senior Scientist, Oncology Biomarker Development, Genentech, San Francisco, CA
2016–18 Allison Mayle, PhD, Baylor College of Medicine, Houston, TX
Current position: Assistant Director, DNALC, Cold Spring Harbor Laboratory, New York
2013–16 Benedikt Bosbach, PhD, University of Konstanz, Germany
Current position: Principal Scientist, CTI, Pfizer Research, New York
2013–15 Cory Rillahan, MD-PhD, The Scripps Research Institute, La Jolla, CA
Current position: Clinical Fellow in Pediatrics, Boston Children's Hospital
2012–18 Ana Banito, PhD, Imperial College London, United Kingdom
Current position: Group Leader, German Cancer Research Center (DKFZ), Heidelberg, Germany
2012–18 Geulah Livshits, PhD, The Rockefeller University, New York, NY
Current position: Senior Research Analyst, Biotechnology and Pharmaceuticals, Chardan Capital Markets LLC, New York, NY
2011–16 Darjus Tschaharganeh, MD, University of Heidelberg, Germany
Current position: Group Leader, German Cancer Research Center (DKFZ), Heidelberg, Germany
2011–16 Eusebio Manchado Robles, PhD, Spanish National Cancer Research Center (CNIO), Madrid, Spain
Current position: Senior Principal Scientist, Novartis, Basel, Switzerland
2010–15 Kiki (Yu) Liu, PhD, Albert Einstein College of Medicine, New York, NY
Current position: Professor, Sichuan University, Sichuan, China
2010–14 Amaia Lujambio, PhD, Spanish National Cancer Research Center (CNIO), Madrid, Spain
Current position: Associate Professor, Mount Sinai School of Medicine, New York, NY
2010–14 Iris Appelmann, MD, Westphalian Wilhelms University, Münster, Germany
Current position: Physician, University Hospital RWTH Aachen, Germany
2010–14 Chong Chen, PhD, University of Michigan, Ann Arbor, MI
Current position: Professor, Sichuan University, Sichuan, China
2009–14 Thomas Kitzing, PhD, University of Heidelberg, Germany
Current position: Senior Research Scientist, Philipps University of Marburg, Institute of Pharmacology, Germany
2009–13 Anna Saborowski, MD, Hannover Medical School, Germany

Current position: Physician, Hannover Medical School, Germany
2009–12 Jessica Bolden, PhD, Peter MacCallum Cancer Centre, Victoria, Australia
Current position: Postdoctoral Fellow, Swinburne University of Technology, Australia
2008–14 Lukas Dow, PhD, Peter MacCallum Cancer Centre, Australia
Current position: Assistant Professor, Weill Cornell Medical College, New York, NY
2008–13 Michael Saborowski, MD, University of Leipzig, Germany
Current position: Physician, Hannover Medical School, Germany
2007–11 Yuchen Chien, PhD, University of Texas Southwestern, Dallas, TX
Current position: Roche, NJ
2007–10 Uli Bialucha, PhD, University College London, UK
Current position: Project Leader, Novartis, Boston, MA
2006–14 Cornelius Miething, PhD, University of Frankfurt, Germany
Current position: Group Leader and Medical Fellow, University Medical Center Freiburg, Germany
2006–08 Timothy Pardee, MD-PhD, State University of New York at Buffalo, NY
Current position: Assistant Professor, Internal Medicine-Hematology and Oncology, Wake Forest Baptist Medical Center, Winston-Salem, NC
2005–11 Johannes Zuber, MD, Humboldt-University of Berlin, Germany
Current position: Leader/Assistant Professor, IMP Vienna, Austria
2005–09 Valery Krizhanovsky, PhD, Hebrew University of Jerusalem, Israel
Current position: Assistant Professor, Wiezmann Institute, Israel
2005–08 Yoshi Hippo, PhD, The University of Tokyo, Japan
Current position: Section Head, National Cancer Center, Japan
2004–12 Agustin Chicas, PhD, Hunter College, New York, NY
Current position: Director of Biology/Head of Translational Drug Discovery, Monte Rosa Therapeutics, Boston, MA
2004–08 Lars Zender, MD, Hannover Medical School, Germany
Current position: Group Head, Helmholtz Centre for Infection Research, Germany
2003–08 Ross Dickins, PhD, Peter MacCallum Cancer Institute, Melbourne, Australia
Current position: Assistant Professor, WEHI, Australia
2002–09 Anka Bric, PhD, Colorado State University, Fort Collins, CO
Current position: Co-Owner & Chef, Twyrl Pasta Bistro, Arlington, MA
2002–06 Hans-Guido Wendel, MD-PhD, University of Edinburgh, UK & Technical University of Aachen, Germany
Current position: Member, Cancer Biology & Genetics, MSKCC
2002–06 Michael Hemann, PhD, Johns Hopkins University, Baltimore, MD
Current position: Associate Professor, Massachusetts Institute of Technology, Cambridge, MA
2001–06 Jack Zilfou, PhD, Fox Chase Cancer Center, Temple University, Philadelphia, PA
Current position: Founder & CEO, Zilfou Therapeutics Inc., Philadelphia, PA
2000–06 Masashi Narita, MD-PhD, Osaka University School of Medicine, Japan
Current position: Professor, Cancer Research UK, Cambridge Research Institute, Cambridge, UK