

- **Name:** Todd R. Golub, M.D.
  - **Current Position & Affiliation:**
    1. Director, Founding Core Member, and Chief Scientific Officer, Broad Institute of Harvard and MIT
    2. Charles A. Dana Investigator, Dana-Farber Cancer Institute
    3. Professor of Pediatrics, Harvard Medical School
  - **Country:** USA
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• **Educational Background:**

1985 Carleton College, B.A. *cum laude*, Biochemistry  
 1989 University of Chicago Pritzker School of Medicine, M.D. with Honors  
 1989-1990 Boston Children's Hospital, Intern, Pediatrics  
 1989-1991 Boston Children's Hospital, Resident, Pediatrics  
 1991-1994 Boston Children's Hospital, Dana-Farber Cancer Institute, Fellow, Pediatric Hematology/Oncology  
 1992-1996 Brigham and Women's Hospital, Post-doctoral Fellow, Laboratory of D. Gary Gilliland

• **Professional Experience:**

2021 - Director, Broad Institute of Harvard and MIT  
 2011- 2020 Chief Scientific Officer, Broad Institute of Harvard and MIT  
 2009 - Professor of Pediatrics, Harvard Medical School and Dana-Farber Cancer Institute  
 2004- Director, Cancer Program, Broad Institute of Harvard and MIT  
 2002-2019 Investigator, Howard Hughes Medical Institute  
 2002-2009 Associate Professor of Pediatrics, Harvard Medical School and Dana-Farber Cancer Institute  
 1999-2004 Director, Cancer Genomics, Whitehead/MIT Center for Genome Research  
 1997-1999 Group Leader, Whitehead/MIT Center for Genome Research  
 1997-2002 Assistant Professor of Pediatrics, Harvard Medical School and Dana-Farber Cancer Institute  
 1994-1997 Instructor of Pediatrics, Harvard Medical School and Dana-Farber Cancer Institute

• **Professional Organizations:**

**Boards of Directors**

2008- Damon Runyon Cancer Research Foundation  
 2010-2013 American Association for Cancer Research

**Scientific Advisory Boards**

2015- American Association for Cancer Research Project GENIE, External Advisory Board  
 2007- Human Oncology & Pathogenesis Program, Memorial Sloan-Kettering Cancer Center  
 2011-2015 St. Jude Children's Research Hospital (Chair, 2013-2015)

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2006-2018 Neuroendocrine Tumor Research Foundation (formerly Caring for Carcinoid Foundation)

2006-2015 Board of Scientific Advisors, National Cancer Institute (Chair, 2011-2015)

2005-2014 Sanford-Burnham Institute (Chair, 2010-2014)

2004-2015 Wistar Institute

2000-2006 Hartwell Center for Bioinformatics and Biotechnology, St. Jude Children's Research Hospital

### Major Committees

2015- Solid Tumor Strategy Committee, Department of Pediatric Oncology, Dana-Farber Cancer Institute

2011- Committee for Promotions and Appointments, Dana-Farber Cancer Institute (Co-chair 2016-)

2011- Executive Leadership Team, Broad Institute of Harvard & MIT

2011- Conflict of Interest Committee, Dana-Farber Cancer Institute

2004- Chair, Artist-in-Residence program, Broad Institute of Harvard & MIT

2004- Chair, SPARC Committee, Broad Institute of Harvard & MIT

2019 Vice Chair, AACR Annual Meeting 2019 Program Committee, American Association for Cancer Research (AACR)

2016 Pediatric Oncology Working Group, Cancer Moonshot Blue Ribbon Panel

2006 International Science Review Committee (ISRC), Genome Canada

2005 Site Visit Committee, National Human Genome Research Institute (NHGRI) Genetic and Molecular Biology Branch (GMBB), Bethesda, Maryland

2005 Program Committee, 97th Annual American Association for Cancer Research (AACR)

2002-2005 Co-chair, National Cancer Institute Sarcoma Progress Review Group

1999-2004 Steering Committee, Belfer Center for Cancer Genomics, Dana-Farber Cancer Institute

1999-2004 Executive Committee, Whitehead/MIT Center for Genomic Research

1999-2003 Credentials Committee, Dana-Farber Cancer Institute

1999-2002 Chair, Genomics/Bioinformatics Task Force, Dana-Farber Cancer Institute

1998-1999 Operations Committee, Pediatric Clinic, Dana-Farber Cancer Institute

1996-1999 Pharmacy and Therapeutics Committee, Dana-Farber Cancer Institute

### Editorial Boards

2006- Editorial Board, *Molecular Oncology*

2002- Associate Editor, *Molecular Cancer Research*

1999- Editorial Board member, *Blood*

2012-2014 Board of Reviewing Editors, *eLife*

### • Main Scientific Publications:

1. Pagès M, Rotem D, Gydush G, Reed S, Rhoades J, Ha G, Lo C, Fleharty M, Duran M, Jones R, Becker S, Haller M, Sinai CE, Goumnerova L, Golub TR, Love JC, Ligon KL, Wright K, Adalsteinsson VA, Beroukhim R, Bandopadhyay P. Liquid biopsy detection of genomic alterations in pediatric brain tumors from cell-free DNA in peripheral blood, CSF, and urine. *Neuro Oncol.* 2022 Jan 4;noab299. doi: 10.1093/neuonc/noab299. Epub ahead of print. PMID: 34984433.

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2. Xiong K, Shea D, Rhoades J, Blewett T, Liu R, Bae JH, Nguyen E, Makrigiorgos GM, Golub TR, Adalsteinsson VA. Duplex-Repair enables highly accurate sequencing, despite DNA damage. *Nucleic Acids Res.* 2022 Jan 11;50(1):e1. doi: 10.1093/nar/gkab855. PMID: 34591958; PMCID: PMC8755016.
3. Synthetic Lethal Interaction between the ESCRT Paralog Enzymes VPS4A and VPS4B in Cancers Harboring Loss of Chromosome 18q or 16q. Neggers JE, Paoletta BR, Asfaw A, Rothberg MV, Skipper TA, Yang A, Kalekar RL, Krill-Burger JM, Dharia NV, Kugener G, Kalfon J, Yuan C, Dumont N, Gonzalez A, Abdusamad M, Li YY, Spurr LF, Wu WW, Durbin AD, Wolpin BM, Piccioni F, Root DE, Boehm JS, Cherniack AD, Tsherniak A, Hong AL, Hahn WC, Stegmaier K, Golub TR, Vazquez F, Aguirre AJ. *Cell Rep.* 2021 Jul 13;36(2):109367. doi: 10.1016/j.celrep.2021.109367. PMID: 34260938
4. Fatty Acid Synthesis is Required FOR BREAST CANCER BRAIN METASTASIS. Ferraro GB, Ali A, Luengo A, Kodack DP, Deik A, Abbott KL, Bezwada D, Blanc L, Prideaux B, Jin X, Possada JM, Chen J, Chin CR, Amoozgar Z, Ferreira R, Chen I, Naxerova K, Ng C, Westermarck AM, Duquette M, Roberge S, Lindeman NI, Lyssiotis CA, Nielsen J, Housman DE, Duda DG, Brachtel E, Golub TR, Cantley LC, Asara JM, Davidson SM, Fukumura D, Dartois VA, Clish CB, Jain RK, Vander Heiden MG. *Nat Cancer.* 2021 Apr;2(4):414-428. doi: 10.1038/s43018-021-00183-y. Epub 2021 Apr 1. PMID: 34179825
5. Selective Modulation of a Pan-Essential Protein as a Therapeutic Strategy in Cancer. Malone CF, Dharia NV, Kugener G, Forman AB, Rothberg MV, Abdusamad M, Gonzalez A, Kuljanin M, Robichaud AL, Conway AS, Dempster JM, Paoletta BR, Dumont N, Hovestadt V, Mancias JD, Younger ST, Root DE, Golub TR, Vazquez F, Stegmaier K. *Cancer Discov.* 2021 Apr 21. doi: 10.1158/2159-8290.CD-20-1213. Online ahead of print. PMID: 33883167
6. Prensner JR, Enache OM, Luria V, Krug K, Clauser KR, Dempster JM, Karger A, Wang L, Stumbraite K, Wang VM, Botta G, Lyons NJ, Goodale A, Kalani Z, Fritchman B, Brown A, Alan D, Green T, Yang X, Jaffe JD, Roth JA, Piccioni F, Kirschner MW, Ji Z, Root DE, Golub TR. Noncanonical open reading frames encode functional proteins essential for cancer cell survival. *Nat Biotechnol.* 2021 Jan 28. doi: 10.1038/s41587-020-00806-2. Epub ahead of print. PMID: 33510483.
7. Cohen-Sharir Y, McFarland JM, Abdusamad M, Marquis C, Bernhard SV, Kazachkova M, Tang H, Ippolito MR, Laue K, Zerbib J, Malaby HLH, Jones A, Stautmeister LM, Bockaj I, Wardenaar R, Lyons N, Nagaraja A, Bass AJ, Spierings DCJ, Fojer F, Beroukhim R, Santaguida S, Golub TR, Stumpff J, Storchová Z, Ben-David U. Aneuploidy renders cancer cells vulnerable to mitotic checkpoint inhibition. *Nature.* 2021 Feb;590(7846):486-491. doi: 10.1038/s41586-020-03114-6. Epub 2021 Jan 27. PMID: 33505028.
8. Boehm JS, Garnett MJ, Adams DJ, Francies HE, Golub TR, Hahn WC, Iorio F, McFarland JM, Parts L, Vazquez F. Cancer research needs a better map. *Nature.* 2021 Jan;589(7843):514-516. doi: 10.1038/d41586-021-00182-0. PMID: 33500573.
9. Neggers JE, Paoletta BR, Asfaw A, Rothberg MV, Skipper TA, Yang A, Kalekar RL, Krill-Burger JM, Dharia NV, Kugener G, Kalfon J, Yuan C, Dumont N, Gonzalez A, Abdusamad M, Li YY, Spurr LF, Wu WW, Durbin AD, Wolpin BM, Piccioni F, Root DE, Boehm JS,

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- Cherniack AD, Tsherniak A, Hong AL, Hahn WC, Stegmaier K, Golub TR, Vazquez F, Aguirre AJ. Synthetic Lethal Interaction between the ESCRT Paralogs VPS4A and VPS4B in Cancers Harboring Loss of Chromosome 18q or 16q. *Cell Rep.* 2020 Dec 15;33(11):108493. doi: 10.1016/j.celrep.2020.108493. PMID: 33326793.
10. Jin X, Demere Z, Nair K, Ali A, Ferraro GB, Natoli T, Deik A, Petronio L, Tang AA, Zhu C, Wang L, Rosenberg D, Mangena V, Roth J, Chung K, Jain RK, Clish CB, Vander Heiden MG, Golub TR. A metastasis map of human cancer cell lines. *Nature.* 2020 Dec;588(7837):331-336. doi: 10.1038/s41586-020-2969-2. Epub 2020 Dec 9. PMID: 33299191.
11. McFarland JM, Paolella BR, Warren A, Geiger-Schuller K, Shibue T, Rothberg M, Kuksenko O, Colgan WN, Jones A, Chambers E, Dionne D, Bender S, Wolpin BM, Ghandi M, Tirosh I, Rozenblatt-Rosen O, Roth JA, Golub TR, Regev A, Aguirre AJ, Vazquez F, Tsherniak A. Multiplexed single-cell transcriptional response profiling to define cancer vulnerabilities and therapeutic mechanism of action. *Nat Commun.* 2020 Aug 27;11(1):4296. doi: 10.1038/s41467-020-17440-w. PMID: 32855387; PMCID: PMC7453022.
12. Corsello SM, Nagari RT, Spangler RD, Rossen J, Kocak M, Bryan JG, Humeidi R, Peck D, Wu X, Tang AA, Wang VM, Bender SA, Lemire E, Narayan R, Montgomery P, Ben-David U, Garvie CW, Chen Y, Rees MG, Lyons NJ, McFarland JM, Wong BT, Wang L, Dumont N, O'Hearn PJ, Stefan E, Doench JG, Harrington CN, Greulich H, Meyerson M, Vazquez F, Subramanian A, Roth JA, Bittker JA, Boehm JS, Mader CC, Tsherniak A, Golub TR. Discovering the anti-cancer potential of non-oncology drugs by systematic viability profiling. *Nat Cancer.* 2020 Feb;1(2):235-248. doi: 10.1038/s43018-019-0018-6. Epub 2020 Jan 20. PMID: 32613204; PMCID: PMC7328899.
4. Słabicki M, Kozicka Z, Petzold G, Li YD, Manojkumar M, Bunker RD, Donovan KA, Sievers QL, Koeppl J, Suchyta D, Sperling AS, Fink EC, Gasser JA, Wang LR, Corsello SM, Sellar RS, Jan M, Gillingham D, Scholl C, Fröhling S, Golub TR, Fischer ES, Thomä NH, Ebert BL. The CDK inhibitor CR8 acts as a molecular glue degrader that depletes cyclin K. *Nature.* 2020 Jun 3. doi: 10.1038/s41586-020-2374-x. Epub ahead of print. PMID: 32494016.
5. Enache OM, Rendo V, Abdusamad M, Lam D, Davison D, Pal S, Currimjee N, Hess J, Pantel S, Nag A, Thorner AR, Doench JG, Vazquez F, Beroukhim R, Golub TR, Ben-David U. Cas9 activates the p53 pathway and selects for p53-inactivating mutations. *Nat Genet.* 2020 Jul;52(7):662-668. doi: 10.1038/s41588-020-0623-4. Epub 2020 May 18. Erratum in: *Nat Genet.* 2020 Jun 25;: PMID: 32424350; PMCID: PMC7343612.
6. Parsons HA, Rhoades J, Reed SC, Gydush G, Ram P, Exman P, Xiong K, Lo CC, Li T, Fleharty M, Kirkner GJ, Rotem D, Cohen O, Yu F, Fitarelli-Kiehl M, Leong KW, Hughes ME, Rosenberg SM, Collins LC, Miller KD, Blumenstiel B, Trippa L, Cibulskis C, Neuberg DS, DeFelice M, Freeman SS, Lennon NJ, Wagle N, Ha G, Stover DG, Choudhury AD, Getz G, Winer EP, Meyerson M, Lin NU, Krop I, Love JC, Makrigiorgos GM, Partridge AH, Mayer EL, Golub TR, Adalsteinsson VA. Sensitive Detection of Minimal Residual Disease in Patients Treated for Early-Stage Breast Cancer. *Clin Cancer Res.* 2020 Jun 1;26(11):2556-2564. doi: 10.1158/1078-0432.CCR-19-3005. Epub 2020 Mar 13. PMID: 32170028.
7. Painter CA, Jain E, Tomson BN, Dunphy M, Stoddard RE, Thomas BS, Damon AL, Shah S, Kim D, Gómez Tejada Zañudo J, Hornick JL, Chen YL, Merriam P, Raut CP, Demetri GD, Van Tine

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- BA, Lander ES, Golub TR, Wagle N. The Angiosarcoma Project: enabling genomic and clinical discoveries in a rare cancer through patient-partnered research. *Nat Med.* 2020 Feb;26(2):181-187. doi: 10.1038/s41591-019-0749-z. Epub 2020 Feb 10. PMID: 32042194.
8. Dempster JM, Pacini C, Pantel S, Behan FM, Green T, Krill-Burger J, Beaver CM, Younger ST, Zhivich V, Najgebauer H, Allen F, Gonçalves E, Shepherd R, Doench JG, Yusa K, Vazquez F, Parts L, Boehm JS, Golub TR, Hahn WC, Root DE, Garnett MJ, Tsherniak A, Iorio F. Agreement between two large pan-cancer CRISPR-Cas9 gene dependency data sets. *Nat Commun.* 2019 Dec 20;10(1):5817. doi: 10.1038/s41467-019-13805-y. PMID: 31862961; PMCID: PMC6925302.
9. Anastas JN, Zee BM, Kalin JH, Kim M, Guo R, Alexandrescu S, Blanco MA, Giera S, Gillespie SM, Das J, Wu M, Nocco S, Bonal DM, Nguyen QD, Suva ML, Bernstein BE, Alani R, Golub TR, Cole PA, Filbin MG, Shi Y. Reprogramming Chromatin with a Bifunctional LSD1/HDAC Inhibitor Induces Therapeutic Differentiation in DIPG. *Cancer Cell.* 2019 Nov 11;36(5):528-544.e10. doi: 10.1016/j.ccell.2019.09.005. Epub 2019 Oct 17. PMID: 31631026.
10. Parikh AR, Leshchiner I, Elagina L, Goyal L, Levovitz C, Siravegna G, Livitz D, Rhrissorakkrai K, Martin EE, Van Seventer EE, Hanna M, Slowik K, Utro F, Pinto CJ, Wong A, Danysh BP, de la Cruz FF, Fetter IJ, Nadres B, Shahzade HA, Allen JN, Blaszkowsky LS, Clark JW, Giantonio B, Murphy JE, Nipp RD, Roeland E, Ryan DP, Weekes CD, Kwak EL, Faris JE, Wo JY, Aguet F, Dey-Guha I, Hazar- Rethinam M, Dias-Santagata D, Ting DT, Zhu AX, Hong TS, Golub TR, Iafrate AJ, Adalsteinsson VA, Bardelli A, Parida L, Juric D, Getz G, Corcoran RB. Liquid versus tissue biopsy for detecting acquired resistance and tumor heterogeneity in gastrointestinal cancers. *Nat Med.* 2019 Sep;25(9):1415-1421. doi: 10.1038/s41591-019-0561-9. Epub 2019 Sep 9. Erratum in: *Nat Med.* 2019 Dec;25(12):1949. PMID: 31501609; PMCID: PMC6741444.
11. Oberlick EM, Rees MG, Seashore-Ludlow B, Vazquez F, Nelson GM, Dharia NV, Weir BA, Tsherniak A, Ghandi M, Krill-Burger JM, Meyers RM, Wang X, Montgomery P, Root DE, Bieber JM, Radko S, Cheah JH, Hon CS, Shamji AF, Clemons PA, Park PJ, Dyer MA, Golub TR, Stegmaier K, Hahn WC, Stewart EA, Schreiber SL, Roberts CWM. Small-Molecule and CRISPR Screening Converge to Reveal Receptor Tyrosine Kinase Dependencies in Pediatric Rhabdoid Tumors. *Cell Rep.* 2019 Aug 27;28(9):2331-2344.e8. doi: 10.1016/j.celrep.2019.07.021. PMID: 31461650; PMCID:PMC7319190.
12. Dvela-Levitt M, Kost-Alimova M, Emani M, Kohnert E, Thompson R, Sidhom EH, Rivadeneira A, Sahakian N, Roignot J, Papagregoriou G, Montesinos MS, Clark AR, McKinney D, Gutierrez J, Roth M, Ronco L, Elonga E, Carter TA, Gnirke A, Melanson M, Hartland K, Wieder N, Hsu JC, Deltas C, Hughey R, Bleyer AJ, Kmoch S, Živná M, Barešova V, Kota S, Schlondorff J, Heiman M, Alper SL, Wagner F, Weins A, Golub TR, Lander ES, Greka A. Small Molecule Targets TMED9 and Promotes Lysosoma Degradation to Reverse Proteinopathy. *Cell.* 2019 Jul 25;178(3):521-535.e23. doi: 10.1016/j.cell.2019.07.002. PubMed PMID: 31348885.
13. Abdul Azeez KR, Chatterjee S, Yu C, Golub TR, Sobott F, Elkins JM. Structural mechanism of synergistic activation of Aurora kinase B/C by phosphorylated INCENP. *Nat Commun.* 2019 Jul 18;10(1):3166. doi: 10.1038/s41467-019-11085-0. PubMed PMID: 31320618; PubMed Central PMCID: PMC6639382.

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14. Niepel M, Hafner M, Mills CE, Subramanian K, Williams EH, Chung M, Gaudio B, Barrette AM, Stern AD, Hu B, Korkola JE; LINCS Consortium, Gray JW, Birtwistle MR, Heiser LM, Sorger PK. A Multi-center Study on the Reproducibility of Drug-Response Assays in Mammalian Cell Lines. **Cell Syst.** 2019 Jul 24;9(1):35-48.e5. doi: 10.1016/j.cels.2019.06.005. Epub 2019 Jul 10. PubMed PMID: 31302153.
15. Tsvetkov P, Detappe A, Cai K, Keys HR, Brune Z, Ying W, Thiru P, Reidy M, Kugener G, Rossen J, Kocak M, Kory N, Tsherniak A, Santagata S, Whitesell L, Ghobrial IM, Markley JL, Lindquist S, Golub TR. Author Correction: Mitochondrial metabolism promotes adaptation to proteotoxic stress. **Nat Chem Biol.** 2019 Jul;15(7):757. doi: 10.1038/s41589-019-0315-5. PubMed PMID: 31164776.
16. Ghandi M, Huang FW, Jané-Valbuena J, Kryukov GV, Lo CC, McDonald ER 3rd, Barretina J, Gelfand ET, Bielski CM, Li H, Hu K, Andreev-Drakhlin AY, Kim J, Hess JM, Haas BJ, Aguet F, Weir BA, Rothberg MV, Paoletta BR, Lawrence MS, Akbani R, Lu Y, Tiv HL, Gokhale PC, de Weck A, Mansour AA, Oh C, Shih J, Hadi K, Rosen Y, Bistline J, Venkatesan K, Reddy A, Sonkin D, Liu M, Lehar J, Korn JM, Porter DA, Jones MD, Golji J, Caponigro G, Taylor JE, Dunning CM, Creech AL, Warren AC, McFarland JM, Zamanighomi M, Kauffmann A, Stransky N, Imielinski M, Maruvka YE, Cherniack AD, Tsherniak A, Vazquez F, Jaffe JD, Lane AA, Weinstock DM, Johannessen CM, Morrissey MP, Stegmeier F, Schlegel R, Hahn WC, Getz G, Mills GB, Boehm JS, Golub TR, Garraway LA, Sellers WR. Next-generation characterization of the Cancer Cell Line Encyclopedia. **Nature.** 2019 May;569(7757):503-508. doi: 10.1038/s41586-019-1186-3. Epub 2019 May 8. PubMed PMID: 31068700.
17. Tsvetkov P, Detappe A, Cai K, Keys HR, Brune Z, Ying W, Thiru P, Reidy M, Kugener G, Rossen J, Kocak M, Kory N, Tsherniak A, Santagata S, Whitesell L, Ghobrial IM, Markley JL, Lindquist S, Golub TR. Mitochondrial metabolism promotes adaptation to proteotoxic stress. **Nat Chem Biol.** 2019 May 27. doi: 10.1038/s41589-019-0291-9. [Epub ahead of print] Erratum in: **Nat Chem Biol.** 2019 Jun 4;:. PubMed PMID: 31133756.
18. Chan EM, Shibue T, McFarland JM, Gaeta B, Ghandi M, Dumont N, Gonzalez A, McPartlan JS, Li T, Zhang Y, Bin Liu J, Lazaro JB, Gu P, Piatt CG, Apffel A, Ali SO, Deasy R, Keskula P, Ng RWS, Roberts EA, Reznichenko E, Leung L, Alimova M, Schenone M, Islam M, Maruvka YE, Liu Y, Roper J, Raghavan S, Giannakis M, Tseng YY, Nagel ZD, D'Andrea A, Root DE, Boehm JS, Getz G, Chang S, Golub TR, Tsherniak A, Vazquez F, Bass AJ. WRN helicase is a synthetic lethal target in microsatellite unstable cancers. **Nature.** 2019 Apr 10. doi: 10.1038/s41586-019-1102-x. [Epub ahead of print] PubMed PMID: 30971823.
19. Ben-David U, Beroukhim R, Golub TR. Genomic evolution of cancer models: perils and opportunities. **Nat Rev Cancer.** 2019 Feb;19(2):97-109. doi: 10.1038/s41568-018-0095-3. Review. PubMed PMID: 30578414.
20. Barretina J, Caponigro G, Stransky N, Venkatesan K, Margolin AA, Kim S, Wilson CJ, Lehár J, Kryukov GV, Sonkin D, Reddy A, Liu M, Murray L, Berger MF, Monahan JE, Morais P, Meltzer J, Korejwa A, Jané-Valbuena J, Mapa FA, Thibault J, Bric-Furlong E, Raman P, Shipway A, Engels IH, Cheng J, Yu GK, Yu J, Aspesi P Jr, de Silva M, Jagtap K, Jones MD, Wang L, Hatton C, Palesscandolo E, Gupta S, Mahan S, Sougnez C, Onofrio RC, Liefeld T,

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MacConaill L, Winckler W, Reich M, Li N, Mesirov JP, Gabriel SB, Getz G, Ardlie K, Chan V, Myer VE, Weber BL, Porter J, Warmuth M, Finan P, Harris JL, Meyerson M, Golub TR, Morrissey MP, Sellers WR, Schlegel R, Garraway LA. Addendum: The Cancer Cell Line Encyclopedia enables predictive modelling of anticancer drug sensitivity. **Nature**. 2019 Jan;565(7738):E5-E6. doi: 10.1038/s41586-018-0722-x. PubMed PMID: 30559381.