

Publications/Creative Work:

Peer-Reviewed Publications

*Denotes Braun Lab Trainee

1. Wiley EA, Myers T, Parker K, **Braun T**, Yao MC. Class I histone deacetylase Thd1p affects nuclear integrity in *Tetrahymena thermophila*. Eukaryotic Cell. 2005 May;4(5):981-90.
2. Kelly JX, Winter RW, **Braun TP**, Osei-Agyemang M, Hinrichs DJ, Riscoe MK. Selective killing of the human malaria parasite *Plasmodium falciparum* by a benzylthiazolium dye. Experimental Parasitology. 2007 Jun;116(2):103-10.
3. Grossberg AJ, Scarlett JM, Zhu X, Bowe DD, Batra AK, **Braun TP**, Marks DL. Arcuate Nucleus Proopiomelanocortin Neurons Mediate the Acute Anorectic Actions of Leukemia Inhibitory Factor via gp130. Endocrinology. 2010 Feb;151(2):606-16.
4. **Braun TP**, Marks DL. Pathophysiology and treatment of inflammatory anorexia in chronic disease. Journal of Cachexia, Sarcopenia and Muscle. 2010 Dec;1(2):135-45.
5. Grant WF, Gillingham MB, Batra AK, Fewkes NM, Comstock SM, Takahashi D, **Braun TP**, Grove KL, Friedman JE, Marks DL. Maternal High Fat Diet Is Associated with Decreased Plasma n-3 Fatty Acids and Fetal Hepatic Apoptosis in Nonhuman Primates. PLoS One. 2011 Feb 25;6(2):e17261.
6. **Braun TP**, Marks DL. Hypothalamic Regulation of Muscle Metabolism. Curr Opin Clin Nutr Metab Care. 2011 May;14(3):237-42.
7. Grossberg AJ, Zhu X, Leininger GM, Levasseur PR, **Braun TP**, Myers MG Jr, Marks DL. Inflammation-induced lethargy is mediated by suppression of orexin neuron activity. J Neurosci. 2011 Aug 3;31(31):11376-86.
8. **Braun TP**, Zhu XX, Szumowski M, Scott GD, Grossberg AJ, Graham K, Khan S, Damaraju S, Colmers WF, Baracos VE, Marks DL. Central nervous system inflammation induces muscle atrophy via activation of the hypothalamic-pituitary-adrenal axis. J Exp Med. 2011 Nov 21;208(12):2449-63.
9. Tan BH, Fladvad T, **Braun TP**, Vigano A, Strasser F, Deans DA, Skipworth RJ, Solheim TS, Damaraju S, Ross JA, Kaasa S, Marks DL, Baracos VE, Skorpen F, Fearon KC. P-selectin genotype is associated with the development of cancer cachexia. EMBO Mol Med. 2012 Jun;4(6):462-71.
10. **Braun TP**, Orwoll B, Zhu XX, Nguyen ML, Bouxsein ML, Klein R, Marks DL. Regulation of lean mass, bone mass and exercise tolerance by the central melanocortin system. PLoS One. 2012 Jul;7(7):e42183.
11. **Braun TP**, Grossberg AJ, Veleza-Rotse BO, Maxson JE, Szumowski M, Barnes AP, Marks DL. Expression of myeloid differentiation factor 88 in neurons is not requisite for the induction of sickness behavior by interleukin-1beta. J Neuroinflammation. 2012 Oct 3;9:229.
12. Zhu X, Krasnow SM, Roth-Carter Q, Levasseur PR, **Braun TP**, Grossberg AJ, Marks DL.

Hypothalamic signaling in anorexia induced by indispensable amino acid deficiency. *Am J Physiol Endocrinol Metab.* 2012 Dec 15;303(12):E1446-58.

13. **Braun TP**, Grossberg AJ, Krasnow SM, Szumowski M, Zhu XX, Levasseur PR, Maxson JE, Barnes AP, Marks DL. Cancer- and Endotoxin-Induced Cachexia Require Intact Glucocorticoid Signaling in Skeletal Muscle. *FASEB J.* 2013 Sep;27(9):3572-82.
14. **Braun TP**, Szumowski M, Levasseur PR, Grossberg AJ, Zhu XX, Agarwal A, Marks DL. Muscle Atrophy in Response to Cytotoxic Chemotherapy is Dependent on Intact Glucocorticoid Signaling in Skeletal Muscle. *PLoS One.* 2014 Sep 25;9(9):e106489.
*Selected as the OHSU School of Medicine Paper of the Month for October 2014.
15. **Braun TP**, Maxson JE, Agarwal A, Dunlap J, Spurgeon SE, Traer E. Acute Promyelocytic Leukemia with JAK2 V617F and Severe Differentiation Syndrome. *Leukemia Research Reports.* 2014 Dec 25;4(1):8-11.
16. **Braun TP**, Marks DL. The Regulation of Muscle Mass by Endogenous Glucocorticoids. *Frontiers in Physiology.* 2015 Feb 3;6:12.
17. Zhu XX, Burfeind KG, Michaelis KA, **Braun TP**, Olson B, Pelz KR, Morgan TK, Marks DL. MyD88 signaling is critical in the development of pancreatic cancer cachexia. *Journal of Cachexia, Sarcopenia and Muscle.* 2019 Apr;10(2):378-390.
18. **Braun TP**, Okhovat M, Coblentz C, Carratt CA, Foley A, Schonrock Z, Nevenon K, Davis B, Garcia B, LaTocha D, Jeng S, McWeeney S, Di Genua C, Drissen R, Nerlov C, Carbone L, Druker BJ, Maxson JE. Myeloid Lineage Enhancers Drive Oncogene Synergy in CEBPA/CSF3R Mutant Acute Myeloid Leukemia. *Nature Communications.* 2019 Nov 29;10(1):5455.
19. **Braun TP**, Eide C, Druker BJ. Response and Resistance to BCR-ABL1-Targeted Therapies. *Cancer Cell.* 2020 Apr 13;37(4):530-542.
20. **Braun TP**, Coblentz C, Curtiss BM, Schonrock Z, Carratt SA, Maniaci B, Druker BJ, Maxson JE. Combined inhibition of JAK/STAT pathway and lysine-specific demethylase 1 as a therapeutic strategy in CSF3R/CEBPA mutant acute myeloid leukemia. *Proc Natl Acad Sci U S A.* 2020 Jun 16;117(24):13670-13679.
21. **Braun TP**, Druker BJ. Tyrosine Kinase Inhibitor Discontinuation in Patients with Chronic Myeloid Leukemia: Updates From the LAST Study on Patient-Reported Outcomes and Biomarkers for Relapse. *JAMA Oncol.* 2021 Jan 1;7(1):50-51.
22. Carratt SA, Brewer D, Maxson JE, Druker BJ, **Braun TP**. Outgrowth of a CSF3R-mutant clone drives a second myeloproliferative neoplasm in a chronic myeloid leukemia patient: a case report. *Biomark Res.* 2021 Jan 30;9(1):8.
23. *Tsumura AM, Druker BJ, Brewer DB, Press R, **Braun TP**. BCR-ABL+ Chronic Myeloid Leukemia Arising in a Family with Inherited ANKRD26-Related Thrombocytopenia. *JCO Precis Oncol.* 2021 Feb 19;5:PO.20.00318.
24. Hahn WC, Bader JS, **Braun TP**, Califano A, Clemons PA, Druker BJ, Ewald AJ, Fu H, Jagu S, Kemp CJ, Kim W, Kuo CJ, McManus M, B Mills G, Mo X, Sahni N, Schreiber SL,

- Talamas JA, Tamayo P, Tyner JW, Wagner BK, Weiss WA, Gerhard DS; Cancer Target Discovery and Development Network. An expanded universe of cancer targets. *Cell*. 2021 Mar 4;184(5):1142-1155.
25. Olson B, Zhu X, Norgard MA, Diba P, Levasseur PR, Buenafe AC, Huisman C, Burfeind KG, Michaelis KA, Kong G, **Braun TP**, Marks DL. Chronic cerebral lipocalin 2 exposure elicits hippocampal neuronal dysfunction and cognitive impairment. *Brain Behav Immun*. 2021 Oct;97:102-118.
 26. *Curtiss BM, Brewer D, Druker BJ, **Braun TP**. Navigating Challenges in Monitoring Chronic Myeloid Leukemia with Multiple BCR-ABL1 Transcripts. *Case Rep Oncol*. 2021 Nov 29;14(3):1707-1711.
 27. Carratt SA, **Braun TP**, Coblentz C, Schonrock Z, Callahan R, Curtiss BM, Maloney L, Foley AC, Maxson JE. Mutant SETBP1 enhances NRAS-driven MAPK pathway activation to promote aggressive leukemia. *Leukemia*. 2021 Dec;35(12):3594-3599.
 28. *Curtiss BM, VanCampen J, Kong GL, Yashar W, Horton W, Coleman DJ, Estabrook J, Lusardi TA, Druker BJ, Maxson JE, **Braun TP**. PU.1 and MYC transcriptional network defines synergistic drug responses to KIT and LSD1 in acute myeloid leukemia. *Leukemia*. 2022 Jul;36(7):1781-1793.
 29. *Yashar WM, Kong G, VanCampen J, Smith BM, Coleman DJ, Carbone L, Yardimci GG, Maxson JE, **Braun TP**. GoPeaks: Histone Modification Peak Calling for CUT&Tag. *Genome Biology*. 2022 Jul 4;23(1):144.
 30. Bottomly B, Long N, Schultz A, Kurtz SE, Tognon CT, Johnson K, **Braun TP**, Druker BJ, McWeeney SK, Tyner JW et al. Integrative analysis of drug response and clinical outcome in acute myeloid leukemia. *Cancer Cell*. 2022 Aug 8;40(8):850-864.e9.
 31. Carratt SA, Kong GL, Curtiss BM, Schonrock Z, Maloney L, Maniaci BN, Blaylock HZ, Baris A, Druker BJ, **Braun TP**, Maxson JE. Mutant-SETBP1 activates transcription of Myc programs to accelerate CSF3R-driven myeloproliferative neoplasms. *Blood*. 2022 Aug 11;140(6):644-658.
 32. **Braun TP**, Estabrook J, Schonrock Z, Curtiss BM, Darmusey L, Macaraeg J, Enright T, Coblentz C, Callahan R, Yashar W, Taherinasab A, Mohammed H, Coleman DJ, Druker BJ, Demir E, Lusardi TA, Maxson JE. Asxl1 deletion disrupts MYC and RNA polymerase II function in granulocyte progenitors. *Leukemia*. 2023 Feb;37(2):478-487.
 33. Carratt SA, Kong GL, Coblentz C, Schonrock Z, Maloney L, Weeder B, Yashar W, Callahan R, Blaylock H, Coleman C, Coleman D, **Braun TP***, Maxson JE. RUNX1::ETO translocations must precede CSF3R mutations to promote acute myeloid leukemia development. *Leukemia*. 2023 May;37(5):1141-1146. **Co-Corresponding**.
 34. *Yashar WM, Curtiss BM, Coleman DJ, VanCampen J, Kong G, Macaraeg J, Estabrook J, Demir E, Long N, Bottomly D, McWeeney SK, Tyner JW, Druker BJ, Maxson JE, **Braun TP**. Disruption of the MYC Superenhancer Complex by Dual Targeting of FLT3 and LSD1 in Acute Myeloid Leukemia. *Mol Cancer Res*. 2023 Jul 5;21(7):631-647.

35. *Oyogoa E, Streich L, Raess PW, **Braun T**. Case Report: *ASXL1*, *RUNX1*, and *IDH1* mutation in tyrosine kinase-independent resistant chronic myeloid leukemia progressing to chronic myelomonocytic leukemia-like accelerated phase. *Front Oncol*. 2023 Sep 7;13:1217153.
36. Post C, **Braun TP**, Etzioni R, Nabavizadeh N. Multicancer Early Detection Tests: An Overview of Early Results From Prospective Clinical Studies and Opportunities for Oncologists. *JCO Oncol Pract*. 2023 Dec;19(12):1111-1115.
37. *Yashar WM, Estabrook J, Holly HD, Somers J, Nikolova O, Babur Ö, **Braun TP**, Demir E. Predicting transcription factor activity using prior biological information. *iScience*. 2024 Feb 5;27(3):109124.
38. *Kong GL, Nguyen TT, Rosales WK, Panikar AD, Cheney JHW, Lusardi TA, Yashar WM, Curtiss BM, Carratt SA, **Braun TP**, Maxson JE. CITEViz: interactively classify cell populations in CITE-Seq via a flow cytometry-like gating workflow using R-Shiny. *BMC Bioinformatics*. 2024 Apr 2;25(1):142.
39. Niehus HD, Sabile J, Maziarz RT, Meyers G, Cook R, Gandhi AP, Saultz JN, Rakshe S, Kaempf A, **Braun T**, Migdady Y. Enhanced Survival of Chronic Myelomonocytic Leukemia (CMML)-Dysplastic over Proliferative Subtype After Allogeneic Hematopoietic Cell Transplant: A Tertiary Center Experience and Literature Review. *Acta Haematol*. 2024 Jun 26. doi: 10.1159/000539880. Epub ahead of print.
40. De Rop FV, Hulselmans G, Flerin C, Soler-Vila P, Rafels A, Christiaens V, González-Blas CB, Marchese D, Caratù G, Poovathingal S, Rozenblatt-Rosen O, Slyper M, Luo W, Muus C, Duarte F, Shrestha R, Bagdatli ST, Corces MR, Mamanova L, Knights A, Meyer KB, Mulqueen R, Taherinasab A, Maschmeyer P, Pezoldt J, Lambert CLG, Iglesias M, Najle SR, Dossani ZY, Martelotto LG, Burkett Z, Lebofsky R, Martin-Subero JI, Pillai S, Sebé-Pedrós A, Deplancke B, Teichmann SA, Ludwig LS, **Braun TP**, Adey AC, Greenleaf WJ, Buenrostro JD, Regev A, Aerts S, Heyn H. Systematic benchmarking of single-cell ATAC-sequencing protocols. *Nat Biotechnol*. 2024 Jun;42(6):916-926.
41. Acharya SN, Nichols RV, Rylaarsdam LE, O'Connell BL, **Braun TP**, Adey AC. sciMET-cap: high-throughput single-cell methylation analysis with a reduced sequencing burden. *Genome Biology*, 2024, Jul 10;25(1):186.

Abstracts

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1. Grant WF, Gillingham MB, **Braun TP**, Levasseur PR, Zhu XX, Williams SM, Grove KL, Marks DL. The Effects of Maternal Obesity and Consumption of a High-fat Diet on the Development of Fetal Hepatic Inflammation in the Non-human Primate. Program of the 90th Annual Meeting of the Endocrine Society, San Francisco, CA. 2008.
2. Grossberg AJ, Scarlett JM, Levasseur PR, Zhu XX, Batra AK, **Braun TP**, and Marks DL. LIF inhibits food intake by directly activating POMC neurons. Program of the 5th International Cachexia Conference, Barcelona, Spain 2009.
3. **Braun TP**, Zhu XX, Grossberg AJ, and Marks DL. Activation of the central melanocortin system induces proteolytic pathways in skeletal muscle. Program of the 5th International

Cachexia Conference, Barcelona, Spain 2009.

4. Grossberg AJ, Scarlett JM, Levasseur PR, Zhu XX, Batra AK, **Braun TP**, and Marks DL. LIF inhibits food intake by directly activating POMC neurons. Program of the 91st Annual Meeting of The Endocrine Society, Washington, DC 2009.
5. **Braun TP**, Zhu XX, Szumowski M, Scott GD, Grossberg AJ, Graham K, Khan S, Damaraju S, Colmers WF, Baracos VE and Marks DL. Central nervous system control of inflammation induced muscle catabolism. Program of the 6th International Cachexia Conference, Milan, Italy, 2011. This abstract was selected for an oral presentation and received a Young Investigator Award for the top abstract presented by a Junior Investigator.
6. Grossberg AJ, Zhu XX, Levasseur PR, **Braun TP**, Nguyen ML, Marks DL. Inflammation-induced lethargy is mediated by suppression of orexin signaling. Keystone Symposia on Obesity, Keystone, CO 2011.
7. **Braun TP**, Zhu XX, Szumowski M, Scott GD, Grossberg AJ, Graham K, Khan S, Damaraju S, Colmers WF, Baracos VE and Marks DL. Interleukin-1 beta triggers muscle catabolism via a central nervous system pathway. Program of the 93rd Annual Meeting of the Endocrine Society, Boston, MA 2011.
8. **Braun TP**, Krasnow SM, Levasseur PR, Grossberg AJ, Szumowski M, Zhu XX, Maxson JE, Barnes AP, Marks DL. Cancer- and Endotoxin-Induced Cachexia Require Intact Glucocorticoid Signaling in Skeletal Muscle. American Society for Radiation Oncology Annual Meeting, Boston, MA 2013.
9. **Braun TP**, Szumowski M, Rhodes S, Tanyi JA, Agarwal A, Thomas CR, Marks DL. Ionizing Radiation Elicits a Significant Loss of Lean Body Mass and Activation of the Catabolic Program in Skeletal Muscle via an Indirect Mechanism Involving Systemic Inflammation. Radiation Research Society Meeting, Las Vegas, NV 2014.
10. **Braun TP**, Schonrock Z, Coblenz CR, Foley A, Druker BJ, Maxson JE. Function of ASXL1 Mutations in Chronic Neutrophilic Leukemia. American Hematology Society Meeting, San Diego, CA, 2018.
11. **Braun TP**, Okhovat M, Coblenz C, Carratt SA, Foley A, Schonrock Z, Nevonen K, Davis B, Garcia B, LaTocha D, Weeder BR, Grzadkowski MR, Estabrook JC, Manning HG, Watanabe-Smith K, Smith JL, Lenoti AR, Ries RE, Jeng S, McWeeney S, Di Genua C, Drissen R, Nerlov C, Meshinchi S, Carbone L, Druker BJ, Maxson JE. Myeloid Lineage Enhancers Drive Oncogene Synergy in CEBPA/CSF3R Mutant AML, FASEB Hematologic Malignancies Meeting, Aspen CO, 2019.
12. Colman DJ, Curtiss BM, Coblenz C, Callahan RL, VanCampen J, Kong GL, Druker BJ, Maxson JE, **Braun TP**. FLT3 and LSD1 Inhibitor Combinations Synergistically Repress Growth of FLT3 Mutant Acute Myeloid Leukemia Via Blockage of MYC Function. American Hematology Society Meeting, Virtual, 2020.
13. *Curtiss BM, Maloney L, Coblenz C, Schonrock Z, Druker BJ, Maxson JE, **Braun TP**. Synergistic Inhibition of Lysine Demethylase 1 and cKIT as a Novel Combination

Therapy Approach in Core Binding Factor AML Hematopoiesis, Big Sky, MT, 2020; Accepted Abstract. (Conference cancelled due to COVID-19).

14. *Curtiss BM, Coleman DJ, Maloney L, Coblentz C, Schonrock Z, Estabrook J, Lusardi T, Druker BJ, Maxson JE, **Braun TP**. Combined inhibition of cKIT and Lysine-Specific Demethylase 1 as a therapeutic strategy in acute myeloid leukemia. American Association of Cancer Research, 2021; Online.
15. *Yashar WM, Curtiss BM, Coleman DJ, VanCampen J, Kong G, Macaraeg J, Estabrook J, Demir E, Long N, Bottomly D, McWeeney SK, Tyner JW, Druker BJ, Maxson JE, **Braun TP**. Dual Targeting of FLT3 and LSD1 Disrupts the MYC Super-Enhancer Complex in Acute Myeloid Leukemia. American Association of Cancer Research 2022 Annual Meeting, March 2022.
16. Carlson HL, Nguyen T, Carratt SA, Liu T, Tsai C, Yashar W, **Braun TP**, Maxson JE. SETBP1 activates transcription of proliferation-associated genes by recruiting histone methyltransferases and acetyltransferases. FASEB Hematologic Malignancies Meeting, 2023.
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18. *Taherinasab A, Macaraeg J, Schnoeder TM, Dheeraj A, Heidel F, Malhotra SV, **Braun TP**. Investigation of The Therapeutic Effect of a Novel Small Molecule Inhibiting YBX1 In Myeloid Malignancies. ISEH Annual Meeting, 2023.
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20. *Yashar WM, Estabrook J, Holly H, Somers J, Nikolova O, Barbur Ö, **Braun TP**, Demir E. Predicting transcription factor activity using prior biological information. Research in Computational Molecular Biology 2023 Annual Meeting, April 2023.
21. *Yashar WM, Kong G, VanCampen J, Curtiss B, Coleman D, Carbone L, Yardimci GG, Maxson JE, **Braun TP**. GoPeaks: histone modification peak calling for CUT&Tag. Research in Computational Molecular Biology 2023 Annual Meeting, April 2023.
22. *Yashar WM, Tsuchiya M, Taherinasab A, Evans-Dutson S, O'Connell B, Lusardi T, Szczepanski N, Yardimci G, Adey A, Maxson J, **Braun TP**. Differentiation State Plasticity as a Mechanism of BCL2 Inhibitor Resistance in Acute Myeloid Leukemia. ASH Annual Meeting, 2023.