

Stanford



Arvin Gouw

Instructor, Medicine - Oncology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Medicine - Oncology

PROFESSIONAL EDUCATION

- Ph.D., Johns Hopkins University School of Medicine (2012)
- M.Phil., University of Pennsylvania (2011)
- Master of Arts, University of California Berkeley (2008)
- B.A., University of California Berkeley (2006)

Publications

PUBLICATIONS

- **The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth.** *Cell metabolism*
Gouw, A. M., Margulis, K., Liu, N. S., Raman, S. J., Mancuso, A., Toal, G. G., Tong, L., Mosley, A., Hsieh, A. L., Sullivan, D. K., Stine, Z. E., Altman, B. J., Schulze, et al
2019
- **MYC regulates the HIF-2alpha stemness pathway via Nanog and Sox2 to maintain self-renewal in cancer stem cells versus non-stem cancer cells.** *Cancer research*
Das, B., Pal, B., Bhuyan, R., Li, H., Sarma, A., Gayan, S., Talukdar, J., Sandhya, S., Bhuyan, S., Gogoi, G., Gouw, A. M., Baishya, D., Gotlib, et al
2019
- **The glutathione redox system is essential to prevent ferroptosis caused by impaired lipid metabolism in clear cell renal cell carcinoma** *ONCOGENE*
Miess, H., Dankworth, B., Gouw, A. M., Rosenfeldt, M., Schmitz, W., Jiang, M., Saunders, B., Howell, M., Downward, J., Felsher, D. W., Peck, B., Schulze, A.
2018; 37 (40): 5435–50
- **Engaging a Community for Rare Genetic Disease: Best Practices and Education From Individual Crowdfunding Campaigns.** *Interactive journal of medical research*
Ortiz, R. A., Witte, S., Gouw, A., Sanfilippo, A., Tsai, R., Fumagalli, D., Yu, C., Lant, K., Lipitz, N., Shepphird, J., Alvina, F. B., Cheng-Ho Lin, J.
2018; 7 (1): e3
- **Oncogene KRAS activates fatty acid synthase, resulting in specific ERK and lipid signatures associated with lung adenocarcinoma** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Gouw, A. M., Eberlin, L. S., Margulis, K., Sullivan, D. K., Toal, G. G., Tong, L., Zare, R. N., Felsher, D. W.
2017; 114 (17): 4300-4305
- **Roles of estrogen receptor-alpha in mediating life span: the hypothalamic deregulation hypothesis.** *Physiological genomics*
Gouw, A. M., Efe, G., Barakat, R., Preecha, A., Mehdizadeh, M., Garan, S. A., Brooks, G. A.
2017; 49 (2): 88–95

- **Correspondence: Oncogenic MYC persistently upregulates the molecular clock component REV-ERB β .** *Nature communications*
Altman, B. J., Hsieh, A. L., Gouw, A. M., Dang, C. V.
2017; 8: 14862
- **Metabolic vulnerabilities of MYC-induced cancer** *ONCOTARGET*
Gouw, A. M., Toal, G. G., Felsher, D. W.
2016; 7 (21): 29879–80
- **MYC regulates the antitumor immune response through CD47 and PD-L1** *SCIENCE*
Casey, S. C., Tong, L., Li, Y., Do, R., Walz, S., FitzGerald, K. N., Gouw, A. M., Baylot, V., Guetgemann, I., Eilers, M., Felsher, D. W.
2016; 352 (6282): 227-231
- **Crowdfunding for Personalized Medicine Research.** *Yale journal of biology and medicine*
Fumagalli, D. C., Gouw, A. M.
2015; 88 (4): 413-414
- **MYC Disrupts the Circadian Clock and Metabolism in Cancer Cells.** *Cell metabolism*
Altman, B. J., Hsieh, A. L., Sengupta, A., Krishnanaiah, S. Y., Stine, Z. E., Walton, Z. E., Gouw, A. M., Venkataraman, A., Li, B., Goraksha-Hicks, P., Diskin, S. J., Bellovin, D. I., Simon, et al
2015; 22 (6): 1009-1019
- **Targeted inhibition of tumor-specific glutaminase diminishes cell-autonomous tumorigenesis** *JOURNAL OF CLINICAL INVESTIGATION*
Xiang, Y., Stine, Z. E., Xia, J., Lu, Y., O'Connor, R. S., Altman, B. J., Hsieh, A. L., Gouw, A. M., Thomas, A. G., Gao, P., Sun, L., Song, L., Yan, et al
2015; 125 (6): 2293-2306
- **MYC oncogene overexpression drives renal cell carcinoma in a mouse model through glutamine metabolism** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Shroff, E. H., Eberlin, L. S., Dang, V. M., Gouw, A. M., Gabay, M., Adam, S. J., Bellovin, D. I., Tran, P. T., Philbrick, W. M., Garcia-Ocana, A., Casey, S. C., Li, Y., Dang, et al
2015; 112 (21): 6539-6544
- **p19ARF is a critical mediator of both cellular senescence and an innate immune response associated with MYC inactivation in mouse model of acute leukemia** *ONCOTARGET*
Yetil, A., Anchang, B., Gouw, A. M., Adam, S. J., Zabuawala, T., Parameswaran, R., van Riggelen, J., Plevritis, S., Felsher, D. W.
2015; 6 (6): 3563-3577
- **Alteration of the lipid profile in lymphomas induced by MYC overexpression.** *Proceedings of the National Academy of Sciences of the United States of America*
Eberlin, L. S., Gabay, M., Fan, A. C., Gouw, A. M., Tibshirani, R. J., Felsher, D. W., Zare, R. N.
2014; 111 (29): 10450-10455
- **Tumorigenicity of hypoxic respiring cancer cells revealed by a hypoxia-cell cycle dual reporter.** *Proceedings of the National Academy of Sciences of the United States of America*
Le, A., Stine, Z. E., Nguyen, C., Afzal, J., Sun, P., Hamaker, M., Siegel, N. M., Gouw, A. M., Kang, B. H., Yu, S. H., Cochran, R. L., Sailor, K. A., Song, et al
2014; 111 (34): 12486–91
- **Glucose-independent glutamine metabolism via TCA cycling for proliferation and survival in B cells.** *Cell metabolism*
Le, A., Lane, A. N., Hamaker, M., Bose, S., Gouw, A., Barbi, J., Tsukamoto, T., Rojas, C. J., Slusher, B. S., Zhang, H., Zimmerman, L. J., Liebler, D. C., Slebos, et al
2012; 15 (1): 110–21
- **Inhibition of lactate dehydrogenase A induces oxidative stress and inhibits tumor progression.** *Proceedings of the National Academy of Sciences of the United States of America*
Le, A., Cooper, C. R., Gouw, A. M., Dinavahi, R., Maitra, A., Deck, L. M., Royer, R. E., Vander Jagt, D. L., Semenza, G. L., Dang, C. V.
2010; 107 (5): 2037–42
- **Insulin-like growth factor-1 receptor immunoreactive cells are selectively maintained in the paraventricular hypothalamus of calorically restricted mice.** *International journal of developmental neuroscience : the official journal of the International Society for Developmental Neuroscience*
Saeed, O., Yaghmaie, F., Garan, S. A., Gouw, A. M., Voelker, M. A., Sternberg, H., Timiras, P. S.
2007; 25 (1): 23–28

- **Age-related decline of sleep-dependent consolidation.** *Learning & memory (Cold Spring Harbor, N.Y.)*
Spencer, R. M., Gouw, A. M., Ivry, R. B.
2007; 14 (7): 480–84
- **Age-dependent loss of insulin-like growth factor-1 receptor immunoreactive cells in the supraoptic hypothalamus is reduced in calorically restricted mice.** *International journal of developmental neuroscience : the official journal of the International Society for Developmental Neuroscience*
Yaghmaie, F., Saeed, O., Garan, S. A., Voelker, M. A., Gouw, A. M., Freitag, W., Sternberg, H., Timiras, P. S.
2006; 24 (7): 431–36