

## Amira Barkal

- MD Student, expected graduation Spring 2021
- Ph.D. Student in Stem Cell Biology and Regenerative Medicine, admitted Autumn 2016
- MSTP Student

### Bio

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#### EDUCATION AND CERTIFICATIONS

- Bachelor of Science, Oregon State University , Biochemistry and Biophysics (2012)

### Publications

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#### PUBLICATIONS

- **Identification of phagocytosis regulators using magnetic genome-wide CRISPR screens.** *Nature genetics*  
Haney, M. S., Bohlen, C. J., Morgens, D. W., Ousey, J. A., Barkal, A. A., Tsui, C. K., Ego, B. K., Levin, R., Kamber, R. A., Collins, H., Tucker, A., Li, A., Vorselen, et al  
2018
- **Engagement of MHC class I by the inhibitory receptor LILRB1 suppresses macrophages and is a target of cancer immunotherapy.** *Nature immunology*  
Barkal, A. A., Weiskopf, K., Kao, K. S., Gordon, S. R., Rosental, B., Yiu, Y. Y., George, B. M., Markovic, M., Ring, N. G., Tsai, J. M., McKenna, K. M., Ho, P. Y., Cheng, et al  
2017
- **An atlas of transcriptional, chromatin accessibility, and surface marker changes in human mesoderm development** *SCIENTIFIC DATA*  
Koh, P. W., Sinha, R., Barkal, A. A., Morganti, R. M., Chen, A., Weissman, I. L., Ang, L. T., Kundaje, A., Loh, K. M.  
2016; 3
- **Eradication of Canine Diffuse Large B-Cell Lymphoma in a Murine Xenograft Model with CD47 Blockade and Anti-CD20** *CANCER IMMUNOLOGY RESEARCH*  
Weiskopf, K., Anderson, K. L., Ito, D., Schnorr, P. J., Tomiyasu, H., Ring, A. M., Bloink, K., Efe, J., Rue, S., Lowery, D., Barkal, A., Prohaska, S., McKenna, et al  
2016; 4 (12): 1072-1087
- **Mapping the Pairwise Choices Leading from Pluripotency to Human Bone, Heart, and Other Mesoderm Cell Types** *CELL*  
Loh, K. M., Chen, A., Koh, P. W., Deng, T. Z., Sinha, R., Tsai, J. M., Barkal, A. A., Shen, K. Y., Jain, R., Morganti, R. M., Shyh-Chang, N., Fernhoff, N. B., George, et al  
2016; 166 (2): 451-467
- **CD47-blocking immunotherapies stimulate macrophage-mediated destruction of small-cell lung cancer** *JOURNAL OF CLINICAL INVESTIGATION*  
Weiskopf, K., Jahchan, N. S., Schnorr, P. J., Cristea, S., Ring, A. M., Maute, R. L., Volkmer, A. K., Volkmer, J., Liu, J., Lim, J. S., Yang, D., Seitz, G., Thuyen Nguyen, et al  
2016; 126 (7): 2610-2620
- **A synergistic DNA logic predicts genome-wide chromatin accessibility.** *Genome research*  
Hashimoto, T., Sherwood, R. I., Kang, D. D., Rajagopal, N., Barkal, A. A., Zeng, H., Emons, B. J., Srinivasan, S., Jaakkola, T., Gifford, D. K.  
2016; 26 (10): 1430-40
- **Cas9 Functionally Opens Chromatin.** *PloS one*  
Barkal, A. A., Srinivasan, S., Hashimoto, T., Gifford, D. K., Sherwood, R. I.  
2016; 11 (3): e0152683

- **Discovery of directional and nondirectional pioneer transcription factors by modeling DNase profile magnitude and shape.** *Nature biotechnology*  
Sherwood, R. I., Hashimoto, T., O'Donnell, C. W., Lewis, S., Barkal, A. A., van Hoff, J. P., Karun, V., Jaakkola, T., Gifford, D. K.  
2014; 32 (2): 171–78