

# Stanford

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## Allison Banuelos

Ph.D. Student in Stem Cell Biology and Regenerative Medicine, admitted Summer 2019

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#### EDUCATION AND CERTIFICATIONS

- Bachelor of Science, California State University, Fullerton , Biochemistry (2019)

### Publications

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#### PUBLICATIONS

- **Lineage-tracing hematopoietic stem cell origins in vivo to efficiently make human HLF+ HOXA+ hematopoietic progenitors from pluripotent stem cells.** *Developmental cell*  
Fowler, J. L., Zheng, S. L., Nguyen, A., Chen, A., Xiong, X., Chai, T., Chen, J. Y., Karigane, D., Banuelos, A. M., Niizuma, K., Kayamori, K., Nishimura, T., Cromer, et al  
2024
- **CXCR2 inhibition in G-MDSCs enhances CD47 blockade for melanoma tumor cell clearance.** *Proceedings of the National Academy of Sciences of the United States of America*  
Banuelos, A., Zhang, A., Berouti, H., Baez, M., Yilmaz, L., Georgeos, N., Marjon, K. D., Miyanishi, M., Weissman, I. L.  
2024; 121 (5): e2318534121
- **Anti-GD2 synergizes with CD47 blockade to mediate tumor eradication.** *Nature medicine*  
Theruvath, J., Menard, M., Smith, B. A., Linde, M. H., Coles, G. L., Dalton, G. N., Wu, W., Kiru, L., Delaidelli, A., Sotillo, E., Silberstein, J. L., Geraghty, A. C., Banuelos, et al  
1800
- **Inter-cellular CRISPR screens reveal regulators of cancer cell phagocytosis.** *Nature*  
Kamber, R. A., Nishiga, Y., Morton, B., Banuelos, A. M., Barkal, A. A., Vences-Catalan, F., Gu, M., Fernandez, D., Seoane, J. A., Yao, D., Liu, K., Lin, S., Spees, et al  
2021
- **Combining CD47 blockade with trastuzumab eliminates HER2-positive breast cancer cells and overcomes trastuzumab tolerance.** *Proceedings of the National Academy of Sciences of the United States of America*  
Upton, R., Banuelos, A., Feng, D., Biswas, T., Kao, K., McKenna, K., Willingham, S., Ho, P. Y., Rosental, B., Tal, M. C., Raveh, T., Volkmer, J., Pegram, et al  
2021; 118 (29)
- **Overexpression of CD47 is associated with brain overgrowth and 16p11.2 deletion syndrome.** *Proceedings of the National Academy of Sciences of the United States of America*  
Li, J., Brickler, T., Banuelos, A., Marjon, K., Shcherbina, A., Banerjee, S., Bian, J., Narayanan, C., Weissman, I. L., Chetty, S.  
2021; 118 (15)
- **Overexpression of CD47 is associated with brain overgrowth and 16p11.2 deletion syndrome** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Li, J., Brickler, T., Banuelos, A., Marjon, K., Shcherbina, A., Banerjee, S., Bian, J., Narayanan, C., Weissman, I. L., Chetty, S.  
2021; 118 (15)
- **Humanized anti-CD47 monoclonal antibody magrolimab (Hu5F9-G4) plus trastuzumab potentiates antibody-dependent cellular phagocytosis (ADCP), and cooperate to inhibit human HER2+breast cancer (BC) xenografts growth in vivo**

Upton, R., Feng, D., Banuelos, A. M., Biswas, T., Willingham, S., Kao, K. S., McKenna, K., Rosenthal, B., Tal, M. C., Volkmer, J., Pegram, M. D., Weissman, I. L.  
AMER ASSOC CANCER RESEARCH.2021

• **Proteomic analysis of young and old mouse hematopoietic stem cells and their progenitors reveals post-transcriptional regulation in stem cells.** *eLife*  
Zaro, B. W., Noh, J. J., Mascetti, V. L., Demeter, J., George, B., Zukowska, M., Gulati, G. S., Sinha, R., Flynn, R. A., Banuelos, A., Zhang, A., Wilkinson, A. C., Jackson, et al

2020; 9

• **GD2 is a macrophage checkpoint molecule and combined GD2/CD47 blockade results in synergistic effects and tumor clearance in xenograft models of neuroblastoma and osteosarcoma**

Theruvath, J., Smith, B., Linde, M. H., Sotillo, E., Heitzeneder, S., Marjon, K., Tousley, A., Lattin, J., Banuelos, A., Dhingra, S., Murty, S., Mackall, C. L., Majzner, et al

AMER ASSOC CANCER RESEARCH.2020: 35

• **Overexpression of CD47 is associated with brain overgrowth in 16p11.2 deletion syndrome** *bioRxiv*

Li, J., Brickler, T., Banuelos, A., Marjon, K., Bian, J., Narayanan, C., Weissman, I. L., Chetty, S.  
2019

• **Mass spectrometry analysis of mouse hematopoietic stem cells and their progenitors reveals differential expression within and between proteome and transcriptome throughout adult and aged hematopoiesis** *bioRxiv*

Zaro, B. W., Noh, J. J., Mascetti, V. L., Demeter, J., George, B. M., Zukowska, M., Gulati, G. S., Sinha, R., Morganti, R. M., Banuelos, A. M., Zhang, A., Jackson, P. K., Weissman, et al

2019

• **Programmed cell removal by calreticulin in tissue homeostasis and cancer** *NATURE COMMUNICATIONS*

Feng, M., Marjon, K. D., Zhu, F., Weissman-Tsukamoto, R., Levett, A., Sullivan, K., Kao, K. S., Markovic, M., Bump, P. A., Jackson, H. M., Choi, T. S., Chen, J., Banuelos, et al  
2018; 9

• **Programmed cell removal by calreticulin in tissue homeostasis and cancer.** *Nature communications*

Feng, M. n., Marjon, K. D., Zhu, F. n., Weissman-Tsukamoto, R. n., Levett, A. n., Sullivan, K. n., Kao, K. S., Markovic, M. n., Bump, P. A., Jackson, H. M., Choi, T. S., Chen, J. n., Banuelos, et al  
2018; 9 (1): 3194