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Ph.D. Student in Genetics, admitted Autumn 2017

Publications

PUBLICATIONS

- **Interrogation of Mammalian Protein Complex Structure, Function, and Membership Using Genome-Scale Fitness Screens** *CELL SYSTEMS*
Pan, J., Meyers, R. M., Michel, B. C., Mashtalir, N., Sizemore, A. E., Wells, J. N., Cassel, S. H., Vazquez, F., Weir, B. A., Hahn, W. C., Marsh, J. A., Tsherniak, A., Kadoch, et al
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- **Computational correction of copy number effect improves specificity of CRISPR-Cas9 essentiality screens in cancer cells.** *Nature genetics*
Meyers, R. M., Bryan, J. G., McFarland, J. M., Weir, B. A., Sizemore, A. E., Xu, H., Dharia, N. V., Montgomery, P. G., Cowley, G. S., Pantel, S., Goodale, A., Lee, Y., Ali, et al
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- **Genomic Copy Number Dictates a Gene-Independent Cell Response to CRISPR/Cas9 Targeting** *CANCER DISCOVERY*
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- **Detecting DNA double-stranded breaks in mammalian genomes by linear amplification-mediated high-throughput genome-wide translocation sequencing** *NATURE PROTOCOLS*
Hu, J., Meyers, R. M., Dong, J., Panchakshari, R. A., Alt, F. W., Frock, R. L.
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- **Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma.** *Cell*
Ji, A. L., Rubin, A. J., Thrane, K. n., Jiang, S. n., Reynolds, D. L., Meyers, R. M., Guo, M. G., George, B. M., Mollbrink, A. n., Bergenstr hle, J. n., Larsson, L. n., Bai, Y. n., Zhu, et al
2020
- **Sequence intrinsic somatic mutation mechanisms contribute to affinity maturation of VRC01-class HIV-1 broadly neutralizing antibodies.** *Proceedings of the National Academy of Sciences of the United States of America*
Hwang, J. K., Wang, C., Du, Z., Meyers, R. M., Kepler, T. B., Neuberg, D., Kwong, P. D., Mascola, J. R., Joyce, M. G., Bonsignori, M., Haynes, B. F., Yeap, L. S., Alt, et al
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- **Defining a Cancer Dependency Map.** *Cell*

Tsherniak, A., Vazquez, F., Montgomery, P. G., Weir, B. A., Kryukov, G., Cowley, G. S., Gill, S., Harrington, W. F., Pantel, S., Krill-Burger, J. M., Meyers, R. M., Ali, L., Goodale, et al

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- **Transcription-associated processes cause DNA double-strand breaks and translocations in neural stem/progenitor cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Long Neural Genes Harbor Recurrent DNA Break Clusters in Neural Stem/Progenitor Cells** *CELL*
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- **Sequence-Intrinsic Mechanisms that Target AID Mutational Outcomes on Antibody Genes** *CELL*
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- **Chromosomal Loop Domains Direct the Recombination of Antigen Receptor Genes** *CELL*
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- **Microbial colonization influences early B-lineage development in the gut lamina propria** *NATURE*
Wesemann, D. R., Portuguese, A. J., Meyers, R. M., Gallagher, M. P., Cluff-Jones, K., Magee, J. M., Panchakshari, R. A., Rodig, S. J., Kepler, T. B., Alt, F. W.
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