



Brooks Benard

Computational Biologist 3, Pathology Sponsored Projects

Publications

PUBLICATIONS

- **PRECOG update: an augmented resource of clinical outcome associations with gene expression for adult, pediatric, and immunotherapy cohorts.** *Nucleic acids research*
Benard, B. A., Lalgudi, C. K., Ilerten, I., Wang, R. H., Gentles, A. J.
2025
- **Loss of enhancers LMO2 induced transdifferentiation of B-cells to T-cell acute leukemia**
Lossos, I. S., Aumann, S., Gentles, A., Vega, F., Vicente-Duenas, C., Huang, H., Terry, R., Satta, S., Benard, B., Verdun, R., Sanchez-Garcia, I., Bilbao, D.
ELSEVIER.2025: 142-143
- **Inhibition of DOCK1 prevents the clonal expansion of high-risk TP53-mutant clonal hematopoiesis induced by genotoxic stressors**
Feng, Y., Koehnke, T., Patrick, B., Benard, B., Kayamori, K., Heaton, E., Collins, C., Chavez, J., Zhang, T., Gentles, A., Majeti, R.
ELSEVIER.2025: 631-632
- **Intra-leukemic interferon signaling suppresses expansion and mediates chemoresistance in human AML.** *Blood cancer discovery*
Karigane, D., Fan, A. C., Nishimura, T., Kayamori, K., Nakauchi, Y., Köhnke, T., Rangavajhula, A., Ediriwickrema, A., Benard, B. A., Thomas, R., Zhao, F., Stafford, M., Suchy, et al
2025
- **PRECOG update: An augmented resource of clinical outcome associations with gene expression for pediatric and immunotherapy cohorts.** *bioRxiv : the preprint server for biology*
Benard, B. A., Lalgudi, C. K., Ilerten, I., Wang, R., Gentles, A. J.
2025
- **Integrative multiomic approaches reveal ZMAT3 and p21 as conserved hubs in the p53 tumor suppression network.** *Cell death and differentiation*
Boutelle, A. M., Mabene, A. R., Yao, D., Xu, H., Wang, M., Tang, Y. J., Lopez, S. S., Sinha, S., Demeter, J., Cheng, R., Benard, B. A., McCrea, E. M., Valente, et al
2025
- **Comprehensive molecular profiling of multiple myeloma identifies refined copy number and expression subtypes** *NATURE GENETICS*
Skerget, S., Penaherrera, D., Chari, A., Jagannath, S., Siegel, D. S., Vij, R., Orloff, G., Jakubowiak, A., Niesvizky, R., Liles, D., Berdeja, J., Levy, M., Wolf, et al
2024: 1878-1889
- **Mutation order in acute myeloid leukemia identifies uncommon patterns of evolution and illuminates phenotypic heterogeneity.** *Leukemia*
Schwede, M., Jahn, K., Kuipers, J., Miles, L. A., Bowman, R. L., Robinson, T., Furudate, K., Uryu, H., Tanaka, T., Sasaki, Y., Ediriwickrema, A., Benard, B., Gentles, et al
2024
- **Distinct assemblies of heterodimeric cytokine receptors govern stemness programs in leukemia.** *Cancer discovery*

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- Kan, W. L., Dhagat, U., Kaufmann, K. B., Hercus, T. R., Nero, T. L., Zeng, A. G., Toubia, J., Barry, E. F., Broughton, S. E., Gomez, G. A., Benard, B. A., Dottore, M., Cheung Tung Shing, et al
2023
- **Germline mutations in mitochondrial complex I reveal genetic and targetable vulnerability in IDH1-mutant acute myeloid leukaemia.** *Nature communications*
Bassal, M. A., Samaraweera, S. E., Lim, K., Bernard, B. A., Bailey, S., Kaur, S., Leo, P., Toubia, J., Thompson-Peach, C., Nguyen, T., Maung, K. Z., Casolari, D. A., Iarossi, et al
2022; 13 (1): 2614
 - **Clonal architecture predicts clinical outcomes and drug sensitivity in acute myeloid leukemia.** *Nature communications*
Benard, B. A., Leak, L. B., Azizi, A., Thomas, D., Gentles, A. J., Majeti, R.
1800; 12 (1): 7244
 - **IL-6 blockade reverses bone marrow failure induced by human acute myeloid leukemia.** *Science translational medicine*
Zhang, T. Y., Dutta, R., Benard, B., Zhao, F., Yin, R., Majeti, R.
2020; 12 (538)
 - **Data mining for mutation-specific targets in acute myeloid leukemia.** *Leukemia*
Benard, B., Gentles, A. J., Kohnke, T., Majeti, R., Thomas, D.
2019
 - **Predicting response to new drugs in AML from simulation modelling: Value of the BEAT AML project as a validation resource.** *Leukemia research*
Benard, B. n., Thomas, D. n.
2019