

Selected Genomics Facility Publications

1. Matralis, A.N., E.A. Stylianaki, E.M. Ladopoulou, *et al.*, *An aerosolized dual-action autotaxin inhibitor-PPAR γ agonist for the treatment of pulmonary fibrosis*. **Cell Rep Med**, 2026. 7(5):102778.
2. Emmanouil, C., M. Anezaki, A. Simistiras, *et al.*, *Rapid Remodeling of the Human Gut Microbiome in Response to Short-Term Animal Product Restriction and Associations with Host Molecular Phenotypes*. **Adv Sci (Weinh)**, 2026. 13(30):e15575.
3. Papanastasatou, M., M. Gioulbasani, E. Nakou, *et al.*, *Dual regulatory role of natural killer T cells during development of hepatocellular carcinoma*. **Commun Biol**, 2025. 8(1):1478.
4. Scholtes, M. P., M. Akbarzadeh, A. Galaras, *et al.*, *Integrative analysis of patient-derived tumoroids and ex vivo organoid modelling of ARID1A loss in bladder cancer reveals therapeutic molecular targets*. **Cancer Letters**, 2025. 614.
5. Barbayianni, I., P. Kanellopoulou, D. Fanidis, *et al.*, *SRC and TKS5 mediated podosome formation in fibroblasts promotes extracellular matrix invasion and pulmonary fibrosis*. **Nat Commun**, 2023. 14(1): p. 5882.
6. Briukhovetska, D., J. Suarez-Gosalvez, C. Voigt, *et al.*, *T cell-derived interleukin-22 drives the expression of CD155 by cancer cells to suppress NK cell function and promote metastasis*. **Immunity**, 2023. 56(1): p. 143-161.e11.
7. Papadopoulou, D., F. Roumelioti, C. Tzaferis, *et al.*, *Repurposing the antipsychotic drug amisulpride for targeting synovial fibroblast activation in arthritis*. **JCI Insight**, 2023. 8(9).
8. Bothos, E., P. Hatzis, and P. Moulos, *Interactive Analysis, Exploration, and Visualization of RNA-Seq Data with SeqCVIBE*. **Methods and Protocols**, 2022. 5(2): p. 27-27.
9. Galanis, A., P. Vardakas, M. Reczko, *et al.*, *Bee foraging preferences, microbiota and pathogens revealed by direct shotgun metagenomics of honey*. **Molecular Ecology Resources**, 2022. 22(7): p. 2506-2523.
10. Galaris, A., D. Fanidis, E.-A. Stylianaki, *et al.*, *Obesity Reshapes the Microbial Population Structure along the Gut-Liver-Lung Axis in Mice*. **Biomedicines**, 2022. 10(2): p. 494-494.
11. Gargani, S., N. Lourou, C. Arapatzi, *et al.*, *Inactivation of AUF1 in Myeloid Cells Protects From Allergic Airway and Tumor Infiltration and Impairs the Adenosine-Induced Polarization of Pro-Angiogenic Macrophages*. **Frontiers in Immunology**, 2022. 13.
12. Ne, E., R. Crespo, R. Izquierdo-Lara, *et al.*, *Catchet-MS identifies IKZF1-targeting thalidomide analogues as novel HIV-1 latency reversal agents*. **Nucleic Acids Research**, 2022. 50(10): p. 5577-5598.
13. Subramanian, P., S. Gargani, A. Palladini, *et al.*, *The RNA binding protein human antigen R is a gatekeeper of liver homeostasis*. **Hepatology**, 2022. 75(4): p. 881-897.
14. De Crignis, E., T. Hossain, S. Romal, *et al.*, *Application of human liver organoids as a patient-derived primary model for HBV infection and related hepatocellular carcinoma*. **eLife**, 2021. 10.
15. Fanidis, D. and P. Moulos, *Integrative, normalization-insusceptible statistical analysis of RNA-Seq data, with improved differential expression and unbiased downstream functional analysis*. **Briefings in Bioinformatics**, 2021. 22(3).
16. Filippou, P., X. Zarza, C. Antoniou, *et al.*, *Systems biology reveals key tissue-specific metabolic and transcriptional signatures involved in the response of Medicago truncatula plant genotypes to salt stress*. **Computational and Structural Biotechnology Journal**, 2021. 19: p. 2133-2147.

17. Koukoulas, K., A. Giakountis, A. Karagiota, et al., *ERK signaling controls productive HIF-1 binding to chromatin and cancer cell adaptation to hypoxia through HIF-1 α interaction with NPM1*. **Molecular Oncology**, 2021. 15(12): p. 3468-3489.
18. Moulos, P., *recoup: flexible and versatile signal visualization from next generation sequencing*. **BMC Bioinformatics**, 2021. 22(1): p. 2-2.
19. Niborski, L.L., M. Paces-Fessy, P. Ricci, et al., *Hnf1b haploinsufficiency differentially affects developmental target genes in a new renal cysts and diabetes mouse model*. **Disease Models & Mechanisms**, 2021. 14(5).
20. Röling, M., M. Mollapour Sisakht, E. Ne, et al., *A Two-Color Haploid Genetic Screen Identifies Novel Host Factors Involved in HIV-1 Latency*. **mBio**, 2021. 12(6).
21. Stefos, G.C., E. Szantai, D. Konstantopoulos, et al., *aniFOUND: analysing the associated proteome and genomic landscape of the repaired nascent non-replicative chromatin*. **Nucleic Acids Research**, 2021. 49(11): p. e64-e64.
22. Delivoria, D.C., S. Chia, J. Habchi, et al., *Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation*. **Science Advances**, 2019. 5(10).
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38. Yiakouvaki, A., M. Dimitriou, I. Karakasiliotis, et al., *Myeloid cell expression of the RNA-binding protein HuR protects mice from pathologic inflammation and colorectal carcinogenesis*. **Journal of Clinical Investigation**, 2012. 122(1): p. 48-61.
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