

Selected Genomics Facility Publications

1. Fan, X., B. Torenvliet, A. Galaras, *et al.*, *Hepatitis B virus protein X promotes survival and loss of hepatocyte identity in a differentiated human liver organoid system*. **Cell Death Differ.** 2026.
2. Nanou, A., K. Apostolou-Karampeli, V. Triantafyllidou, *et al.*, *Fibronectin inhibition restores myelination in endothelial TNFR2-dependent nonremitting experimental autoimmune encephalomyelitis*. **Proc Natl Acad Sci U S A**, 2026. 123(37):e2616799123.
3. 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.
4. 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.
5. Iliopoulou, L., C. Tzaferis, A. Prados, *et al.*, *Different fibroblast subtypes propel spatially defined ileal inflammation through TNFR1 signalling in murine ileitis*. **Nat Commun.**, 2025. (1):3023.
6. 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.
7. 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.
8. Roumelioti, F., C. Tzaferi, D. Konstantopoulos D, *et al.*, *Mir221/222 drive synovial hyperplasia and arthritis by targeting cell cycle inhibitors and chromatin remodeling components*. **Elife**. 2024. 13:e84698.
9. Papadopoulou, D., V. Mavrikaki, F. Charalampous F, *et al.*, *Discovery of the First-in-Class Inhibitors of Hypoxia Up-Regulated Protein 1 (HYOU1) Suppressing Pathogenic Fibroblast Activation*. **Angew Chem Int Ed Engl**. 2024. 63(14):e202319157.
10. 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.
11. 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.
12. 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).
13. 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.
14. 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.
15. 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.
16. 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.

17. 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.
18. 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.
19. 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.
20. 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).
21. 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.
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29. Koliarakis, V., N. Chalkidi, A. Henriques, et al., *Innate Sensing through Mesenchymal TLR4/MyD88 Signals Promotes Spontaneous Intestinal Tumorigenesis*. **Cell Reports**, 2019. 26(3): p. 536-545.e4.
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39. Skliris, A., O. Papadaki, P. Kafasla, et al., *Neuroprotection requires the functions of the RNA-binding protein HuR*. **Cell Death & Differentiation**, 2015. 22(5): p. 703-718.
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