

Selected Genomics Facility Publications

1. 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.
2. 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.
3. 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).
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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).
12. 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.
13. 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.
14. Moulos, P., *recoup: flexible and versatile signal visualization from next generation sequencing*. **BMC Bioinformatics**, 2021. 22(1): p. 2-2.
15. 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).
16. 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).

17. 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.
18. 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).
19. Glentis, S., A.C. Dimopoulos, K. Rouskas, *et al.*, *Exome Sequencing in BRCA1- and BRCA2-Negative Greek Families Identifies MDM1 and NBEAL1 as Candidate Risk Genes for Hereditary Breast Cancer*. **Frontiers in Genetics**, 2019. 10.
20. Koliaraki, 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.
21. Matis, I., D.C. Delivoria, B. Mavroidi, *et al.*, *Publisher Correction: An integrated bacterial system for the discovery of chemical rescuers of disease-associated protein misfolding*. **Nature Biomedical Engineering**, 2018. 2(1): p. 49-49.
22. Ntari, L., M. Sakkou, P. Chouvardas, *et al.*, *Comorbid TNF-mediated heart valve disease and chronic polyarthritis share common mesenchymal cell-mediated aetiopathogenesis*. **Annals of the Rheumatic Diseases**, 2018: p. annrheumdis-212597.
23. Sakkou, M., P. Chouvardas, L. Ntari, *et al.*, *Mesenchymal TNFR2 promotes the development of polyarthritis and comorbid heart valve stenosis*. **JCI Insight**, 2018. 3(7).
24. Agalioti, T., A.D. Giannou, A.C. Krontira, *et al.*, *Mutant KRAS promotes malignant pleural effusion formation*. **Nature Communications**, 2017. 8(1): p. 15205-15205.
25. Nikolaou, K.C., P. Moulos, V. Harokopos, *et al.*, *Kmt5a Controls Hepatic Metabolic Pathways by Facilitating RNA Pol II Release from Promoter-Proximal Regions*. **Cell Reports**, 2017. 20(4): p. 909-922.
26. Giakountis, A., P. Moulos, V. Zarkou, *et al.*, *A Positive Regulatory Loop between a Wnt-Regulated Non-coding RNA and ASCL2 Controls Intestinal Stem Cell Fate*. **Cell Reports**, 2016. 15(12): p. 2588-2596.
27. Sarris, M.E., P. Moulos, A. Haroniti, *et al.*, *Smyd3 Is a Transcriptional Potentiator of Multiple Cancer-Promoting Genes and Required for Liver and Colon Cancer Development*. **Cancer Cell**, 2016. 29(3): p. 354-366.
28. Giannou, A.D., A. Marazioti, M. Spella, *et al.*, *Mast cells mediate malignant pleural effusion formation*. **Journal of Clinical Investigation**, 2015. 125(6): p. 2317-2334.
29. Nikolaou, K.C., P. Moulos, G. Chalepakis, *et al.*, *Spontaneous development of hepatocellular carcinoma with cancer stem cell properties in PR- SET7-deficient livers*. **The EMBO Journal**, 2015. 34(4): p. 430-447.
30. 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.
31. Roulis, M., C. Nikolaou, E. Kotsaki, *et al.*, *Intestinal myofibroblast-specific Tpl2-Cox-2-PGE2 pathway links innate sensing to epithelial homeostasis*. **Proceedings of the National Academy of Sciences**, 2014. 111(43).
32. Nikolaou, K., A. Tsagaratou, C. Eftychi, *et al.*, *Inactivation of the Deubiquitinase CYLD in Hepatocytes Causes Apoptosis, Inflammation, Fibrosis, and Cancer*. **Cancer Cell**, 2012. 21(6): p. 738-750.
33. Pandis, I., C. Ospelt, N. Karagianni, *et al.*, *Identification of microRNA-221/222 and microRNA-323-3p association with rheumatoid arthritis via predictions using the human tumour necrosis factor transgenic mouse model*. **Annals of the Rheumatic Diseases**, 2012. 71(10): p. 1716-1723.

34. 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.
35. Katsanou, V., S. Milatos, A. Yiakouvaki, *et al.*, *The RNA-Binding Protein Elavl1/HuR Is Essential for Placental Branching Morphogenesis and Embryonic Development*. **Molecular and Cellular Biology**, 2009. 29(10): p. 2762-2776.