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Publications

PUBLICATIONS

- **Potential effects of endogenous RNA/DNA hybrids on CRISPR-Cas9-mediated homology-directed repair** *MOLECULAR THERAPY NUCLEIC ACIDS*
Puzzo, F., Bayram, B., Macaubas, C., Lin, A., Jang, H., Zhang, F., Mellins, E., Kay, M. A.
2026; 37 (2)
- **Potential effects of endogenous RNA/DNA hybrids on CRISPR-Cas9-mediated homology-directed repair.** *Molecular therapy. Nucleic acids*
Puzzo, F., Bayram, B., Macaubas, C., Lin, A., Jang, H., Zhang, F., Mellins, E., Kay, M. A.
2026; 37 (2): 102880
- **NEAT1 lncRNA Structure-Mediated Functional Modulation as a Novel Therapeutic Approach for MYC-Driven Cancers.**
Jang, H., Kay, M., Suh, B., Zhang, F.
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- **Tales from the R-loops: how RNA/DNA hybrids may influence CRISPR/Cas9-mediated homologous recombination gene editing outcomes**
Puzzo, F., Jang, H., Zhang, F., Kay, M.
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- **Screening for Cellular Factors Underlying Mechanisms of AAV Tropism**
Jang, H., Du, Q., Kay, M. A.
CELL PRESS.2024: 37-38
- **Promoterless AAV Gene Targeting Vectors Favor Integration into the Albumin Locus Regardless of Homology Arm Sequences**
Pekrun, K., Stephens, C., Zhang, F., Jang, H., Puzzo, F., Liehr, P., Goswami, A., Kay, M. A.
CELL PRESS.2023: 738-739
- **Fludarabine increases nuclease-free AAV- and CRISPR/Cas9-mediated homologous recombination in mice.** *Nature biotechnology*
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- **Lnc122-The miR122 Precursor Has an Independent Role as a Tumor Suppressor in Liver**
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- **Improved Genome Editing through Inhibition of FANCM and Members of the BTR Dissolvase Complex.** *Molecular therapy : the journal of the American Society of Gene Therapy*
de Alencastro, G. n., Puzzo, F. n., Pavel-Dinu, M. n., Zhang, F. n., Pillay, S. n., Majzoub, K. n., Tiffany, M. n., Jang, H. n., Sheikali, A. n., Cromer, M. K., Meetei, R. n., Carette, J. E., Porteus, et al
2021; 29 (3): 1016–27
- **A Leu(CAG)-tRNA derived small RNA regulates ribosomal protein S28 after translation initiation in both human and mouse liver cancers**
Kim, H., Xu, J., Chu, K., Park, H., jang, H., Li, P., Valdmanis, P., Zhang, Q., Kay, M.
AMER ASSOC CANCER RESEARCH.2020
- **Proteins Complex of the Fanconi Anemia Pathway as Determinant of AAV-Mediated Genomic Targeted Integration**

Puzzo, F., de Alencastro, G., Pavel-Dinu, M., Zhang, F., Pillay, S., Majzoub, K., Tiffany, M., Jang, H., Sheikali, A., Cromer, K. M., Meetei, R., Carette, J. E., Porteus, et al

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- **A tRNA-Derived Small RNA Regulates Ribosomal Protein S28 Protein Levels after Translation Initiation in Humans and Mice.** *Cell reports*

Kim, H. K., Xu, J., Chu, K., Park, H., Jang, H., Li, P., Valdmanis, P. N., Zhang, Q. C., Kay, M. A.

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- **Amino-Acylated LeuCAG3 ' tsRNA Mediates Translational Elongation of Ribosomal Protein S28 mRNA and is a Key Regulatory Step in Ribosome Biogenesis**

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