

VECTOR | CMC | ANALYTICS

Notable Publications

The team at Franklin Biolabs has a long history of world-class research and innovation in AAV manufacturing and analytical science from their time in Dr. Jim Wilson's academic program. Several notable publications from that period are highlighted below. Building on this rich legacy of scientific excellence, the team at Franklin is excited to support your next project and accelerate your advanced therapy from discovery to commercialization.

- Gao GP et al. Purification of Recombinant Adeno-associated Virus Vectors by Column Chromatography and its Performance In Vivo. Hum Gene Ther, 11:2079-2091, 2000. PMID: 11044910
- Lock M et al. Rapid, Simple and Versatile Manufacturing of Recombinant Adeno-Associated Virus Vectors at Scale. Hum Gene Ther, Oct; 21(10):1259-1271, 2010. PMID: 20497038
- Lock M et al. Analysis of particle content of recombinant adeno-associated virus serotype 8 vectors by ion-exchange chromatography. Hum Gene Ther Methods. Feb;23(1):56-64, 2012. PMID: 22428980
- Lock M et al. Absolute Determination of Single-Stranded and Self-Complementary AAV Vector Genome Titers by Droplet Digital PCR. Hum Gene Ther Methods, Apr;25(2):115-25, 2014. PMID: 24328707
- Wang Q et al. Identification of an adeno-associated virus binding epitope for AVB sepharose affinity resin. Mol Ther Methods Clin Dev, Nov 4;2:15040, 2015. PMID: 26605372
- Yang Y et al. A dual AAV system enables the Cas9-mediated correction of a metabolic liver disease in newborn mice. Nat Biotechnol, Mar;34(3):334-8, 2016. PMID: 26829317
- Saveliev A et al. Accurate and Rapid Sequence Analysis of Adeno-Associated Virus Plasmids by Illumina Next-Generation Sequencing. Hum Gene Ther Methods. Oct;29(5):201-211, 2018. PMID: 30051733
- Giles AR et al. Deamidation of Amino Acids on the Surface of Adeno-Associated Virus Capsids Leads to Charge Heterogeneity and Altered Vector Function. Mol Ther. Dec 5;26(12):2848-2862, 2018. PMID: 30343890
- Sims JJ et al. Intranasal gene therapy to prevent infection by SARS-CoV-2 variants. PLoS Pathog. 2021 Jul 15;17(7):e1009544. PMID: 34265018
- Giles A et al. Significant differences in capsid properties and potency between AAV vectors produced in Sf9 and HEK293 cells. Hum Gene Ther. 2023 Oct;34(19-20):1003-1021. Epub 2023 Oct 4. PMID: 37597192

For a full list of publications, visit Dr. Wilson's [PubMed bibliography](#).

