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Publications

PUBLICATIONS

- **Maturation and circuit integration of transplanted human cortical organoids.** *Nature*
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- **Generation of Functional Human 3D Cortico-Motor Assembloids.** *Cell*
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2020
- **Expanding the editable genome and CRISPR-Cas9 versatility using DNA cutting-free gene targeting based on in trans paired nicking.** *Nucleic acids research*
Chen, X. n., Tasca, F. n., Wang, Q. n., Liu, J. n., Janssen, J. M., Brescia, M. D., Bellin, M. n., Suzhai, K. n., Kenrick, J. n., Frock, R. L., Gonçalves, M. A.
2019
- **The Chromatin Structure of CRISPR-Cas9 Target DNA Controls the Balance between Mutagenic and Homology-Directed Gene-Editing Events.** *Molecular therapy. Nucleic acids*
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- **DNA, RNA, and Protein Tools for Editing the Genetic Information in Human Cells.** *iScience*
Chen, X., Gonçalves, M. A.
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- **In trans paired nicking triggers seamless genome editing without double-stranded DNA cutting** *NATURE COMMUNICATIONS*
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Chen, X., Liu, J., Janssen, J. M., Goncalves, M. V.
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- **Adenoviral vectors encoding CRISPR/Cas9 multiplexes rescue dystrophin synthesis in unselected populations of DMD muscle cells.** *Scientific reports*
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2016; 6: 37051
- **Probing the impact of chromatin conformation on genome editing tools** *NUCLEIC ACIDS RESEARCH*
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2016; 44 (13): 6482–92
- **The emerging role of viral vectors as vehicles for DMD gene editing** *GENOME MEDICINE*
Maggio, I., Chen, X., Goncalves, M. V.
2016; 8: 59
- **Engineered Viruses as Genome Editing Devices** *MOLECULAR THERAPY*
Chen, X., Goncalves, M. V.

2016; 24 (3): 447–57

- **Selection-free gene repair after adenoviral vector transduction of designer nucleases: rescue of dystrophin synthesis in DMD muscle cell populations.** *Nucleic acids research*

Maggio, I., Stefanucci, L., Janssen, J. M., Liu, J., Chen, X., Mouly, V., Gonçalves, M. A.

2016; 44 (3): 1449-70

- **Adenoviral vector delivery of RNA-guided CRISPR/Cas9 nuclease complexes induces targeted mutagenesis in a diverse array of human cells.** *Scientific reports*

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