

# RNA WRITING: PROGRAMMABLE SPLICING FOR TRANSCRIPTOME ENGINEERING

Tech ID: 32784 / UC Case 2022-112-0

## PATENT STATUS

Country	Type	Number	Dated	Case
Patent Cooperation Treaty	Reference for National Filings	WO 2023/220672	11/16/2023	2022-112

Patent Pending

## BRIEF DESCRIPTION

RNA splicing is a fundamental biological process, in which a pre-mRNA transcript is modified by the endogenous spliceosomal complex into a mature mRNA transcript. This standard process involves a single pre-mRNA molecule “in cis.” Whereas methods for editing DNA using editing enzymes have been described and are currently in use for various gene editing applications, there is a need in the art for methods of editing RNA.

UC Berkeley researchers have created a hybrid RNA molecule comprising a targeting region and a donor RNA, and compositions comprising the hybrid RNA molecule which is useful in methods of modifying a target RNA by employing a splicing reaction that joins two distinct RNA molecules “in trans.”

## SUGGESTED USES

» RNA editing

## CONTACT

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## INVENTORS

» Hsu, Patrick David

## OTHER INFORMATION

### CATEGORIZED AS

- » **Medical**
- » Research Tools
- » Therapeutics
- » **Research Tools**
- » Nucleic Acids/DNA/RNA

### RELATED CASES

2022-112-0

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Compositions and Methods of Isothermal Nucleic Acid Detection
- ▶ RECOMBINASES FOR INTEGRATING DNA & RECOMBINASE FUSIONS