

GENETICS, SOFTWARE

SAFETY CONDITIONS FOR GENOME EDITING

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I would like to see two points added to current [CRISPR/Cas9 guidelines](#).

First of all, the current gene therapies are not being entered into the clinical trial databases on a regular basis. Maybe as the number of treated patients go down to a single individual or as there is no control group. I would really like the recommendation of a priori entry into [clinicaltrials.gov](#) or [clinicaltrialsregister.eu](#) (or some newly designed gene therapy databases). Just to get towards a clear risk/ benefit ratio.

Second, there should be some way to recognize gene editing. Some barcode as we used it already long ago, an artificial sequence that indicates the new insert. [epigenie.com](#) summarized the current approaches by last summer: Gestalt/Jay Shendure, barcode/Stephen R. Quake, scartrace/Jan Philipp Junker, hgRNA/Prasant Mali, mScribe/Tim Lu. Something like the [FLAG-tag](#). [Or more recently](#)

R. Kalhor et al., "Rapidly evolving homing CRISPRbarcodes," Nature Methods, doi:10.1038/nmeth.4108, 2016.

S.D. Perli et al., "Continuous genetic recording with self-targeting CRISPR-Cas in human cells," Science, doi: 10.1126/science.aag0511, 2016.