Principles for Ethical Application of Gene Editing in the Clinic

A Perspective from Industry

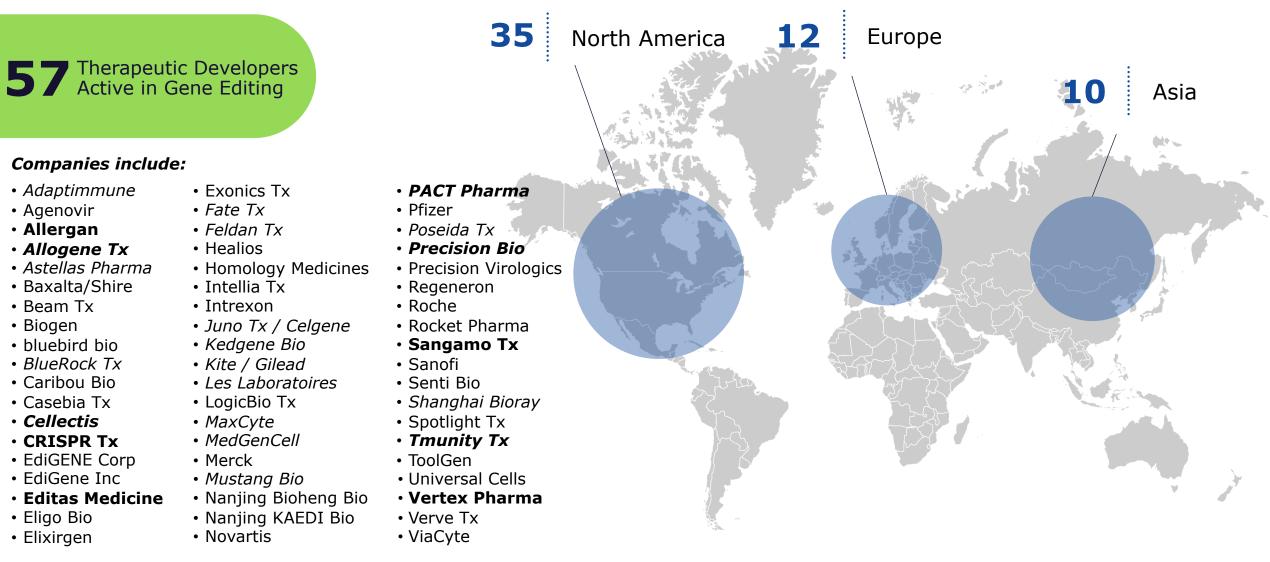
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Global Overview



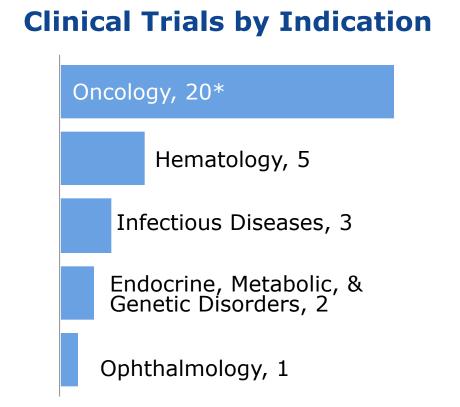


*Companies with clinical stage genome editing programs in **bold**; companies primarily utilizing gene editing technologies to modify cell therapies for applications in oncology are *italicized*.

Clinical Pipeline for Gene Edited Therapies

There are currently 31 active, ongoing clinical trials involving gene editing

- 45% are Phase 1 and 55% are Phase 1/2.
- 85% are *ex vivo* and 15% are *in vivo*.
- The technologies used in these trials include:
 - CRISPR/cas9 (52%)
 - ZFN (29%)
 - TALEN (16%)
 - Other (6%)





Genome Editing Clinical Trials by Country



