

Gene Editing Breakthroughs and Controversies: A Summary

- **Glowing Cats & Feline AIDS Resistance:**
 - In 2011, scientists inserted a gene into cat eggs, making them glow.
 - They also modified the cats' DNA to resist a feline form of
- **CRISPR: A Revolutionary Tool:**
 - CRISPR can engineer humans to resist life-threatening
 - It's derived from proteins found in bacteria, repurposed to target and modify disease-linked genes.
- **Editing the Human Genome:**
 - CRISPR can edit the human genome with changes lasting for centuries, especially when editing
- **The Case of Dr. John Kwai:**
 - Dr. Kwai claims to have used CRISPR to disable the CCR5 gene (linked to HIV) in human embryos.
 - This resulted in the birth of genetically modified
- **Safety Concerns & Risks:**
 - Studies suggest edited cells might increase risk.
 - CRISPR can accidentally target and alter healthy DNA.