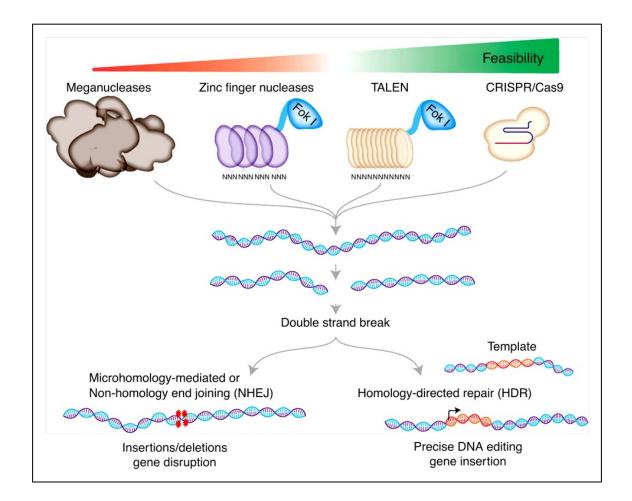
Human Gene Editing: A New Legal Frontier

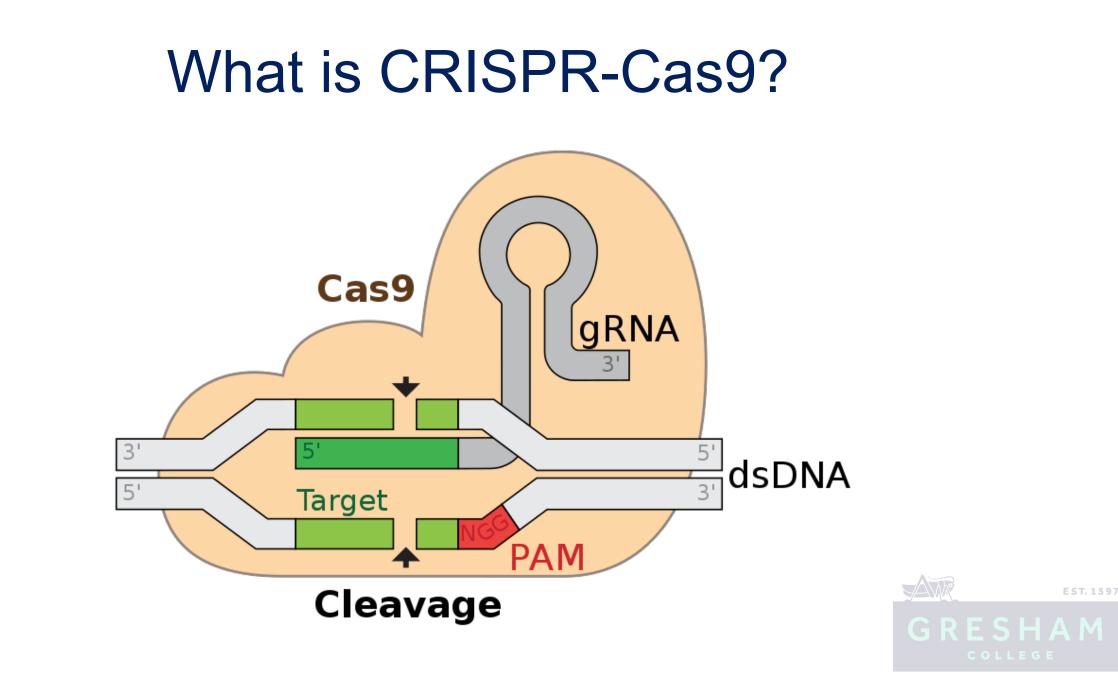
Professor Imogen Goold Faculty of Law, University of Oxford



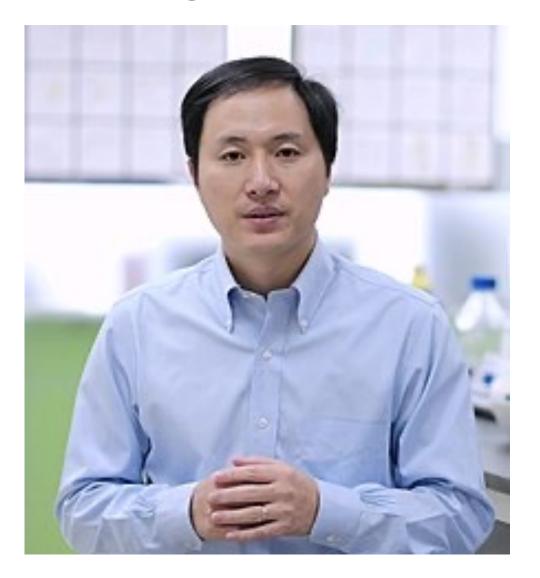
What Is Gene Editing?





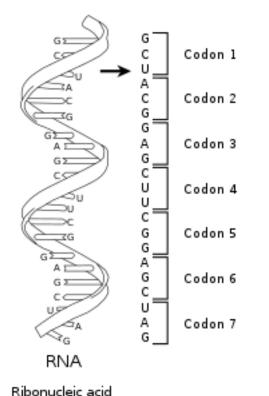


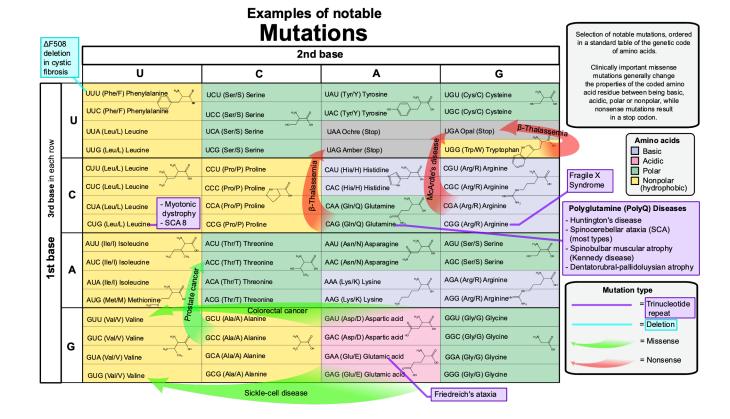
Gene Editing Hits the Headlines





What Can Gene Editing Do Now?







What Can Gene Editing Do Now?





What might it be able to do in the future?





Current Legal Framework

- Gene Therapy Advisory Committee (GTAC)
 - Research Ethics Committee
- Gene editing for 'non-medical' purposes is prohibited



Should We Proceed with Gene Editing?



Germline Genome Editing

"The moratorium is a pause. Society needs to figure out if we all want to do this, if this is good for society, and that takes time. If we do, we need to have guidelines first so that the people who do this work can proceed in a responsible way, with the right oversight and quality controls.'

Feng Zhang, Broad Institute of Harvard and MIT



Improving Health and Wellbeing

- Treat disease
- Treat disability
- Improve individual health



Disability as Harm

"It is hard to doubt that most people must regard disability as having negative value. However strong their all-things-considered commitment to any or all existing disabled people, however willing they are to do all they can to make life as good as possible for them, and even though they would not change their existing disabled child or spouse or colleague for any able-bodied person in the world, the fact remains that most people would think it better for themselves if their disabled friends and relations and employees were not disabled."

Janet Radcliffe Richards





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Social Model of Disability

"it is not individual limitations, of whatever kind, which are the cause of the problem but society's failure to provide appropriate services and adequately ensure [that] the needs of disabled people are fully taken into account in its social organization".

Mike Oliver



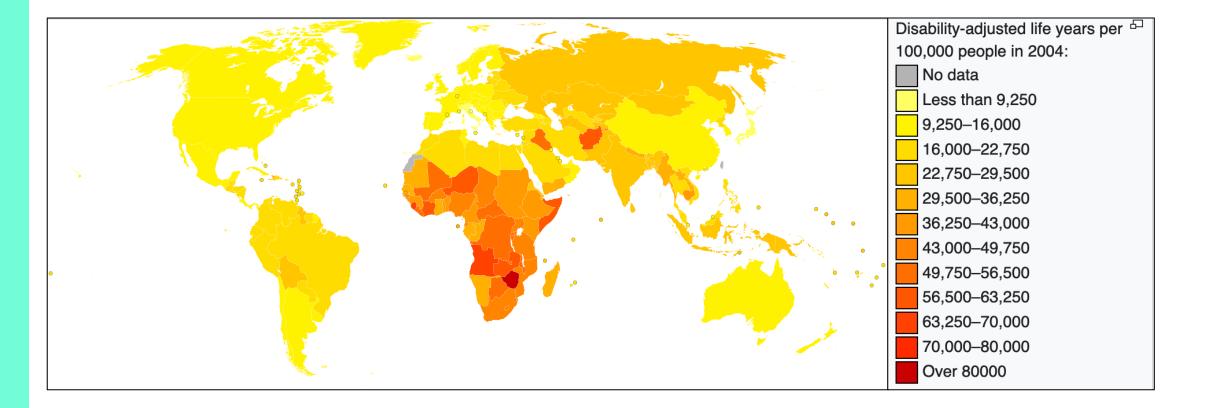
Disability as a Good

'I can't bring myself to say that his dyslexia is pathological. To use the old, deeply inaccurate language of brain lateralization, he's a right brain person. He sees holistically; he's a big picture person; he intuits; he connects wildly distant and different concepts. ...

When I see a tree, it's clothed with other peoples' written descriptions of trees. The tree itself is more or less invisible. But not for Tom. There's nothing vicarious about his world. He sees for himself, and seems to see far more of the real tree than I do. Not for him the neat, prescriptive relationship between word and reality that defines and suffocates me.'



Health Inequities

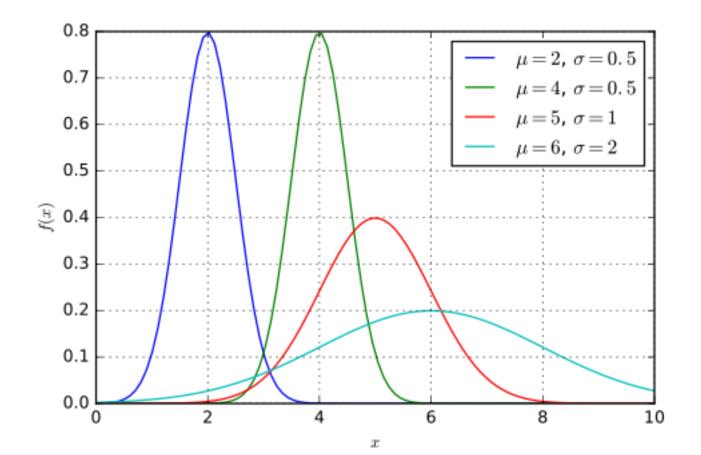




Reproductive Autonomy

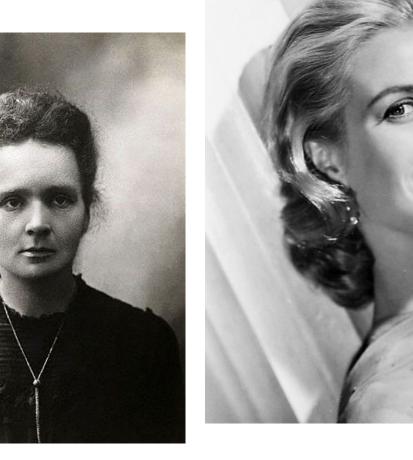
- Afford parents choices in their children
- Avoid termination and embryo selection problems
- Concerns about 'designer babies'





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"The deeper danger is that they represent a kind of hyperagency—a Promethean aspiration to remake nature, including human nature, to serve our purposes and satisfy our desires. The problem is not the drift to mechanism but the drive to mastery."

Michael Sandel



"Both aspects of our lives are interwoven and, indeed, it is this interweaving and our struggles with it that make us what we are and constitutes in its interplay of light and dark, much that is of value and significance in human existence"

Mike Parker

"Some people have a lot of light and no dark; others are all dark. The issue is whether we should accept what nature delivers up or make a choice."

Guy Kahane and Julian Savulescu



Enhancement and the Parent/Child Relationship

"In a social world that prizes mastery and control, parenthood is a school for humility. That we care deeply about our children and yet cannot choose the kind we want teaches parents to be open to the unbidden. Such openness is a disposition worth affirming, not only within families but in the wider world as well. It invites us to abide the unexpected, to live with dissonance, to rein in the impulse to control."

Michael Sandel



An Open Future?

- Letting nature decide our future
- Pressure on children to meet expectations
- Offering opportunities



Limiting Use

- Distinguishing which uses may be permissible and which might not
 - Somatic v germline
- Welfare questions
- Diversity
- Changing norms



Conclusions



Thank you!

