

VOCABULARY► **SCIENCE**

- to obtain / to be awarded / to win a Nobel Prize in (chemistry / physics)
- to win an award
- to raise questions about how XXX should be used ethically
- to ensure responsible use of...
- to call for regulation
- life sciences
- a field
- an advance
- a patent

► **Genetic engineering**

- a (powerful) new tool / new technology
- CRISPR-Cas9 /'krispər'/ genetic scissors
- genome editing > to edit the (human) genome
- to contribute to new cancer therapies
- to cure inherited diseases
- to genetically alter babies

<https://en.wikipedia.org/wiki/CRISPR#Cas9>

► **General**

- facilities to take care of children (child-care facilities)
- an (ongoing) feud / a fight over
- an outstanding contribution (to science)
- to make a career (in research)
- to make a dream come true
- to have a revolutionary impact on
- to overlook (the achievements of women)

USEFUL EXPRESSIONS

- transformative advances
- For (two women to share a prize) is (unusual) = the fact that (two women share the prize) is (unusual)
- > For a lone scientist to genetically alter babies is scary
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FACTS and EXAMPLES

> **Very few women have been awarded Nobel Prizes in its long history** (since 1901) *“only a tiny fraction of recipients have been female”*

- only 7 out of 185 in chemistry
- only 12 out of 202 male winners in medicine

> **A few examples:** Marie Curie (in physics in 1903 and chemistry in 1911)

> the French virologist Françoise Barré-Sinoussi (in medicine in 2008 for discovering the HIV virus caused AIDS)

> the Norwegian neuroscientist, May-Britt Moser

> The French chemist Emmanuelle Charpentier (who does research in Berlin) for her work on CRISPR-Cas9

Here are two more examples

<https://www.bbc.co.uk/sounds/play/p071k9t1>

<https://www.bbc.co.uk/sounds/play/p071k7gs>

> **Link politics and science:**

IMPACT OF BREXIT – A few examples

HOW TRUMP has impacted science – A few examples

> **Space conquest: a new milestone**

DISCUSSION POINTS

▶ Why have women difficulty getting recognised in science?

- less women are nominated (there are mostly men in review committee)

- women have come a long way, they used not to be accepted in science (things are a bit different in egalitarian Northern European countries)

- very little child-care facilities in research organisations

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▶ Should scientists intervene in politics?