

## No such thing as the perfect genome

### Key facts

- Our genomes are 99.9% the same as the genomes of other individuals.
- It is the 0.1% difference that interests us in healthcare.
- The difference or variation in our genomes is what makes each of us unique.
- Most variation causes no harm, but some have serious consequences and can impact on health.

### Did you know?

Although it seems small, the 0.1% variation in the 3 billion letters of our genome equates to around 3 million differences.

As well as sharing around 99.9% of the genome with each other, we also share 96% with chimpanzees, 90% with mice and 60% with bananas.

Individuals may have the same genetic changes linked to a condition, but this does not mean they will present with similar or even any symptoms.

### Find out more

For more fun facts about the genome, visit our Flickr channel:  
[www.bit.ly/GenomeFacts](http://www.bit.ly/GenomeFacts)

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[www.hee.nhs.uk](http://www.hee.nhs.uk)

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