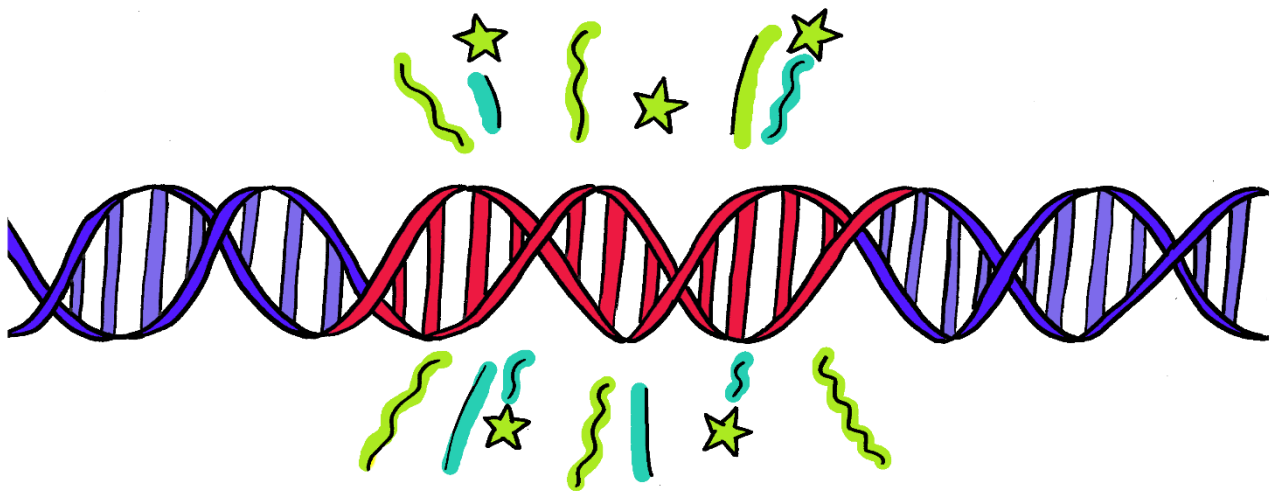




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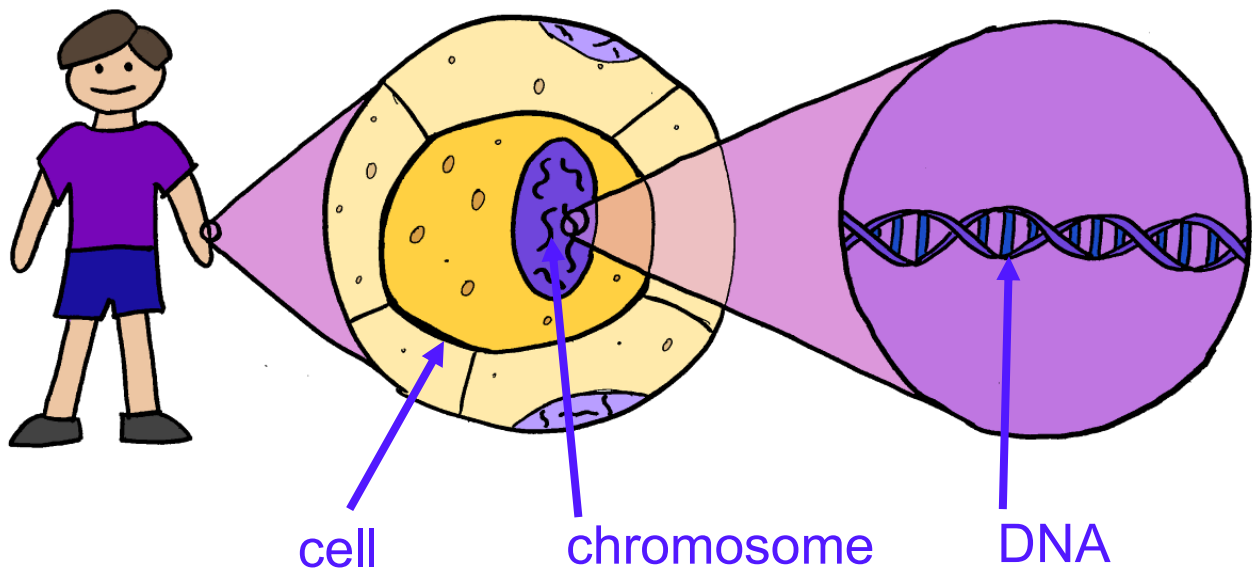
UNDERSTANDING GENES  
& CHROMOSOMES



# My Chromosome Story

A picture book for children with  
a chromosome 1q21.1 microdeletion

[rarechromo.org](http://rarechromo.org)

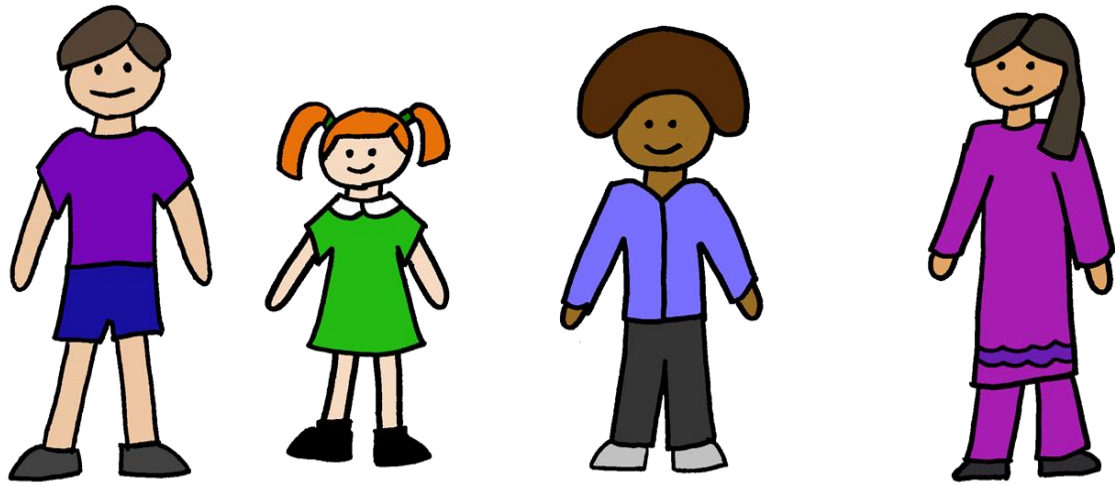


Your body is built from tiny building blocks called **cells**.

Almost all of your cells contain **DNA**, which is full of instructions on how to make you.

The instructions are quite long and complicated and so they are split into different parts called **chromosomes**.

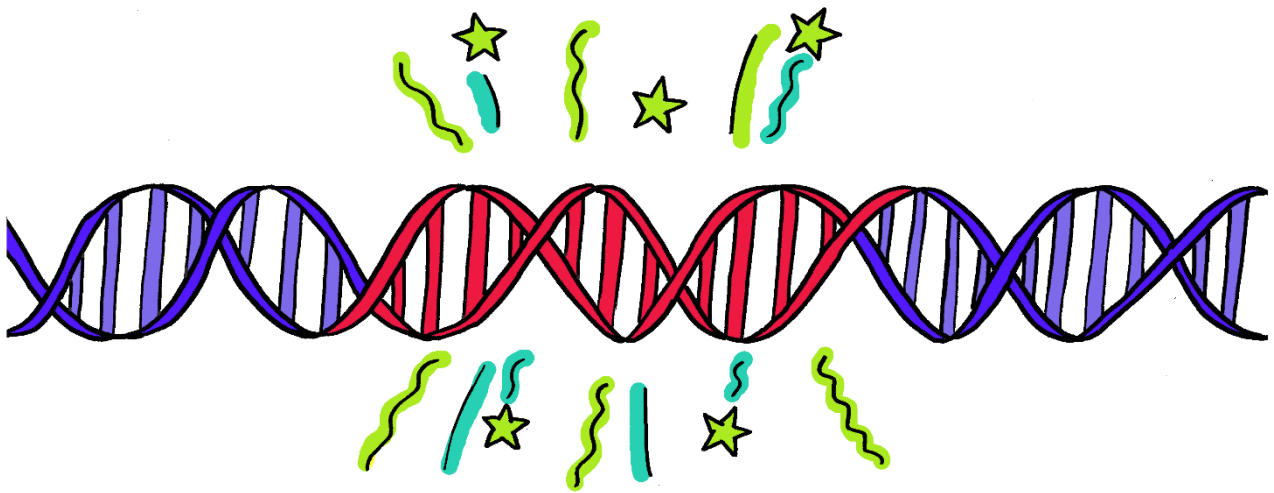
It might help to imagine these instructions are like a big book, and each chromosome is a different chapter.



DNA helps to determine how tall you are, what colour hair you have, and lots of other things about you.

But DNA doesn't determine everything.

Things that happen in your life make a difference as well. If you listen to lots of music you might know more songs. If you don't get enough sleep you might feel tired.

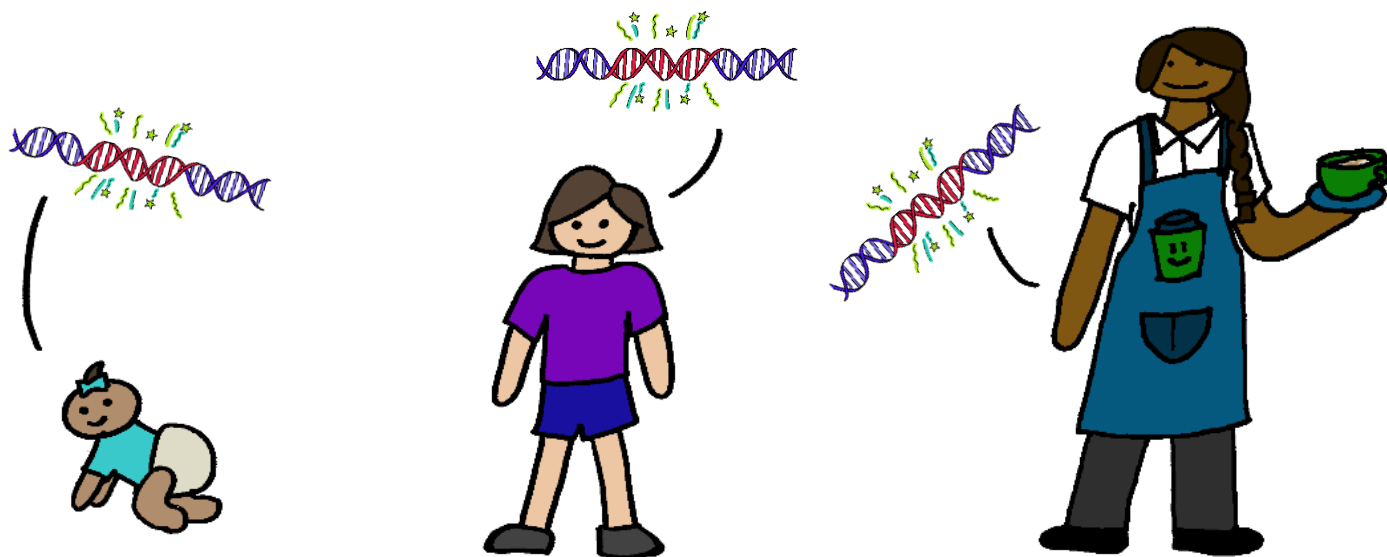


Everyone's DNA is different: some people have extra bits and some people have missing bits.

Inside your DNA there is a bit missing, one little piece of DNA has been lost so you have one less copy than most people. It is in the 1<sup>st</sup> chapter of your 'instruction book': [chromosome 1](#).

Your missing piece of DNA is called a [microdeletion](#). Micro means a very little piece, and deletion means a copy is missing.

You also have another copy of [chromosome 1](#) that has not been changed.



There are lots of other children who have the missing bit of **chromosome 1** like you. They live all over the world.

Just like people without this chromosome change you are all different from each other.

Some people with the missing bit of DNA find some things harder to do than people who are not missing this piece of DNA, but this is different for each person.



Some children with this missing piece of **chromosome 1** take longer to learn.

Some children find it hard to eat well when they are little.

Some feel a bit fed up when it's difficult to talk or understand what grown-ups are saying.

And some have arms and legs or fingers and toes that might bend a little bit more than their friends do.

It is good to know about the change in your chromosome, because now if you find some things difficult to do, your family, friends, carers and teachers might be able to help you even more than before.



Remember that we are all different in different ways, and we all need help sometimes. It's good that you are exactly the way you are, because your family loves you very much just for being you.

# Inform Network Support



Rare Chromosome Disorder Support Group  
The Stables, Station Road West, Oxted, Surrey, RH8 9EE, UK  
Tel: +44(0)1883 723356  
[help@rarechromo.org](mailto:help@rarechromo.org) | [rarechromo.org](http://rarechromo.org)

**Join Unique for family links, information and support:**

[Become a member](#)

**Please help us to help you!**

Unique is a charity without government funding, existing entirely on donations and grants. If you can, please make a donation:

[Donate via our website](#)

Families should consult a medically qualified clinician in all matters relating to genetic diagnosis, management and health.

This children's booklet was compiled by Unique and Yevgeny Podolyanskiy, McGill undergraduate student in Sciences and member of McGill Rare, based on an original work written by Dr. Seonaid Beaumont, Sheffield, UK which is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

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