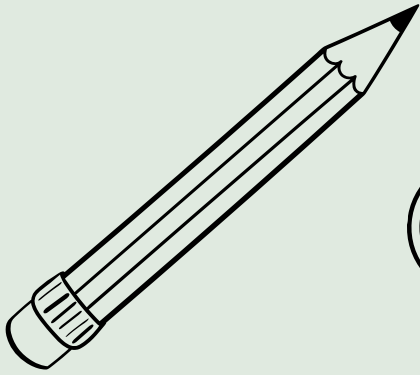
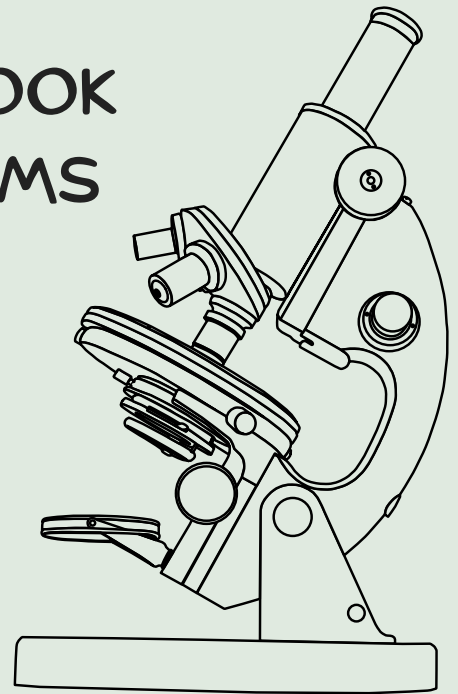
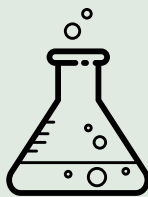


AN A-Z ADVENTURE IN CELLS & SCIENCE

A COLOUR-ME BOOK
OF CANCER TERMS



A COLOURING BOOK BY OMPRN



OMPRN

Ontario Molecular Pathology
Research Network

ontariomolecularpathology.ca

NAME:

WELCOME TO AN A-Z ADVENTURE IN CELLS & SCIENCE!

This colouring book is designed to help you learn about cancer and the science of cells in a fun and creative way.

Each page introduces a new word from the world of molecular pathology, the study of how diseases like cancer begin and grow inside our bodies. You'll see how scientists and doctors use these words to understand cancer better and find new ways to help people.

As you colour, take your time to sound out the pronunciations on the next page and discover the meaning behind each term.

Colour in the pages, add your own drawings, and share your creations with friends and family, you'll be teaching others about cancer science while having fun!



MOLECULAR PATHOLOGY FROM A-Z

SUMMARY PAGE & PRONUNCIATION

Below is each term used in this book with its pronunciation (how to say it).
Just sound it out slowly, one part at a time, to help you say the word correctly!

Aa

Allele

uh·leel

Bb

Biopsy

bai·aap·see

Cc

Cell

sel

Dd

DNA

dee·en·ay

Ee

Epidemiologist

eh·puh·dee·mee·
aa·luh·juhst

Ff

**Fluorescent
Marker**

flaw·reh·snt
maar·kr

Gg

Geneticist

juh·neh·tuh·
suhst

Hh

Hereditary

hr·eh·duh·teh·ree

Ii

**Immuno-
histochemistry**

im·yoo·noh·hiss·
toh·kem·uh·stree

Jj

Journal

jer·nul

Kk

Karyotype

keh·ree·uh·tipe

Ll

Laboratory

la·bruh·taw·ree

Mm

Microscope

mai·kruh·skowp

Nn

Nucleus

noo·klee·uhs

Oo

Oncologist

aang·kaa·luh
juhst

Pp

Pathologist

puh·thaa·luh
juhst

Qq

Quality Control

kwaa·luh·tee
kuhn·trohl

Rr

RNA

ar·en·ay

Ss

Sample

sam·pl

Tt

Tumour

too·mr

Uu

Ultrasound

uhl·truh·sownd

Vv

Variant

veuh·ree·uhnt

Ww

White Blood Cell

wite bluhd sel

Xx

X-Chromosome

eks – krow·muh·
sowm

Yy

Y-Chromosome

wai – krow·muh·
sowm

Zz

Zoom

zoom

Aa is for Allele

**Alleles are genes that each have a say,
In how you look and grow each day!**

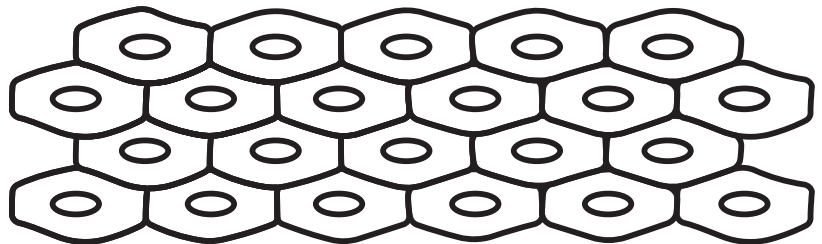
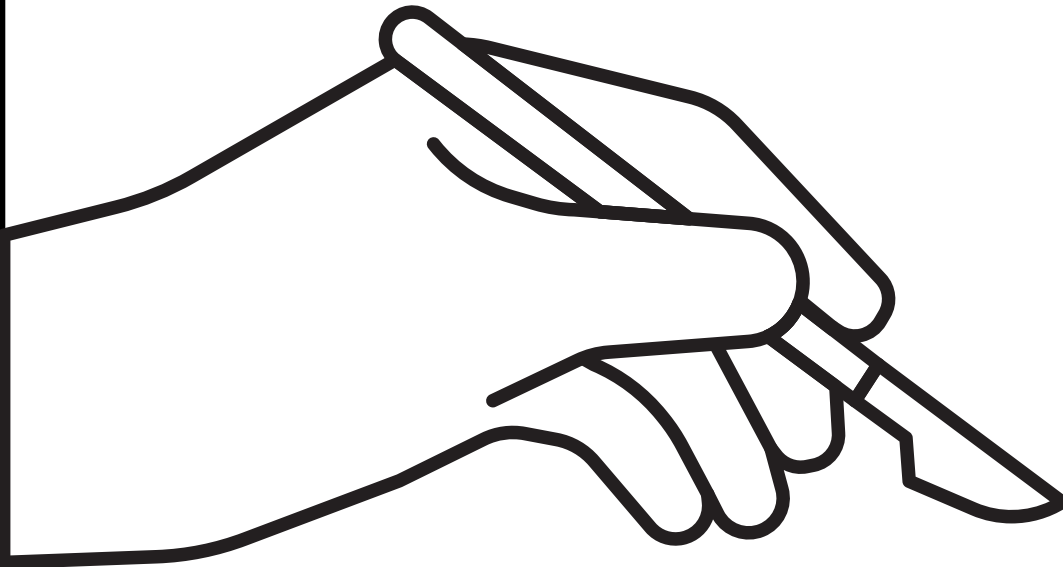


Bb

is for

Biopsy

**A tiny bit of tissue we take,
To learn what's what, with no mistake.**



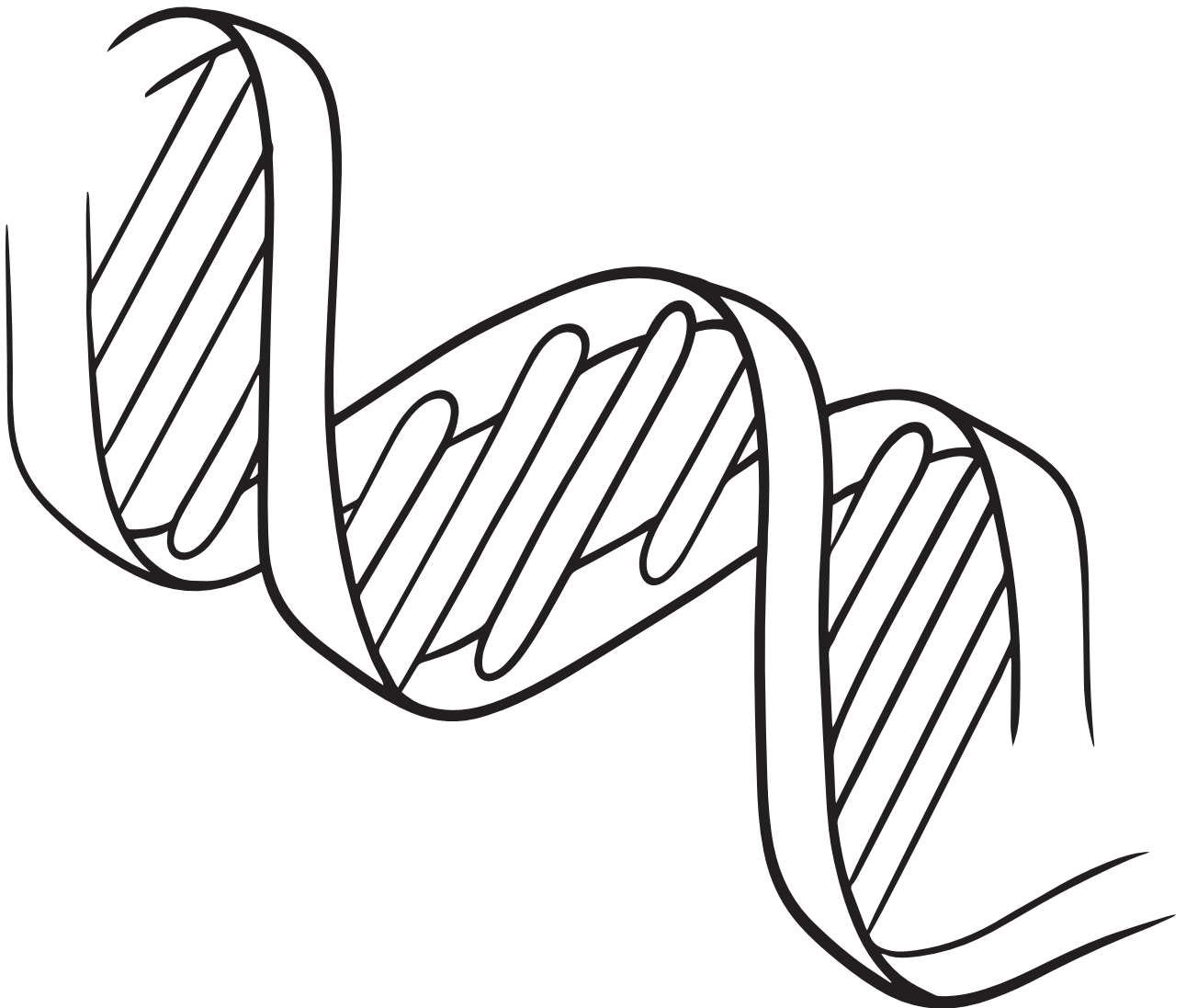
Cc is for
Cell

**Tiny and busy, with parts so small,
Cells work together to build us all!**



Dd is for
DNA

**From head to toe, in every cell,
The same DNA works quite well.**

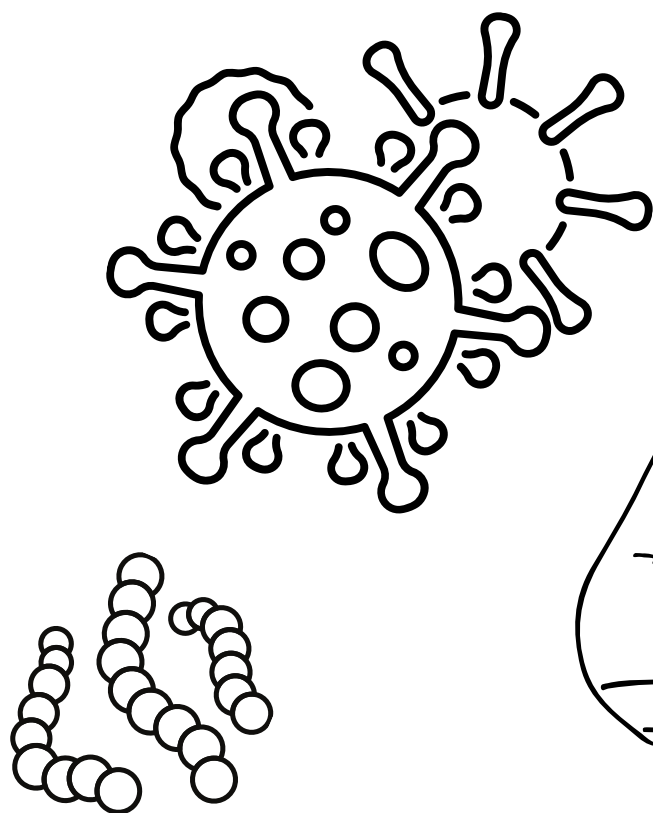


Ee

is for

Epidemiologist

**They track diseases, big and small,
Keeping the world healthy and safe for all!**

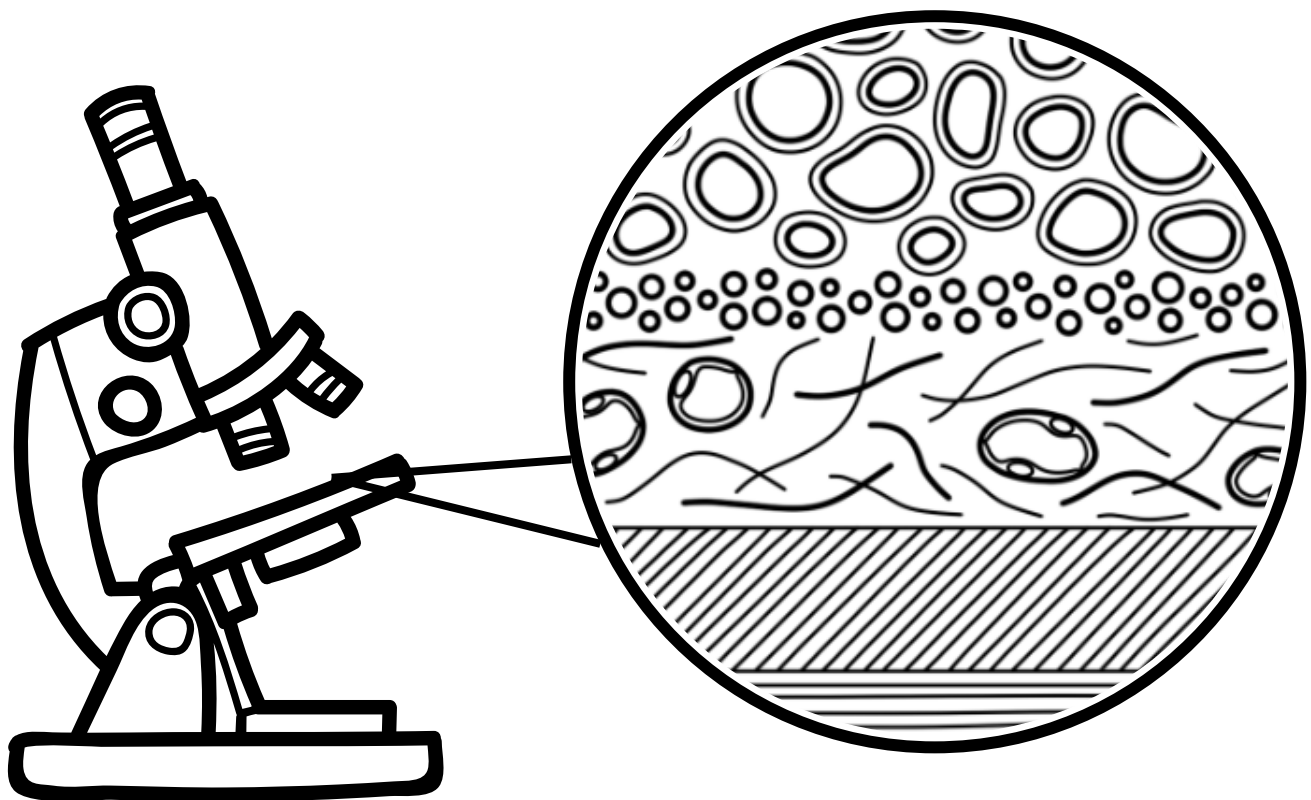


Ff

is for

Fluorescent Marker

**A glowing light that helps us see,
Where tiny cells are meant to be!**



**Use a highlighter to colour in all the small circular
cells seen under a microscope.**

Gg is for **Geneticist**

**A gene detective, smart and true
Who knows what genes will mean to you.**

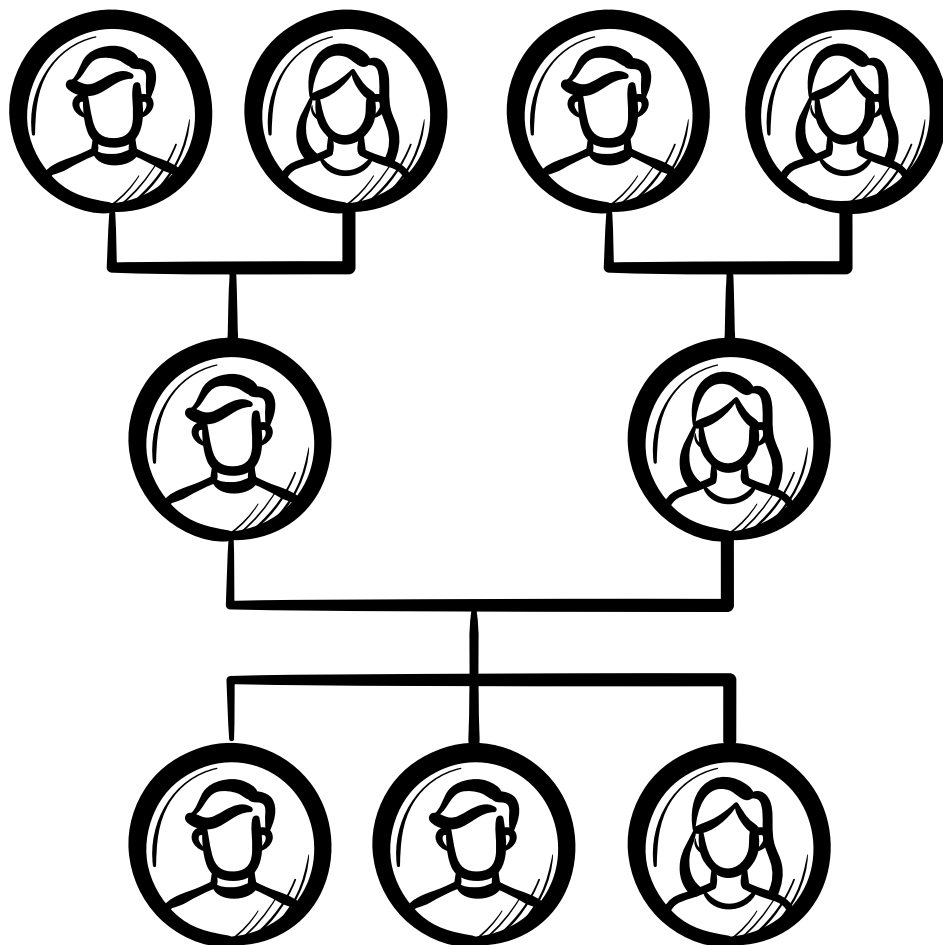


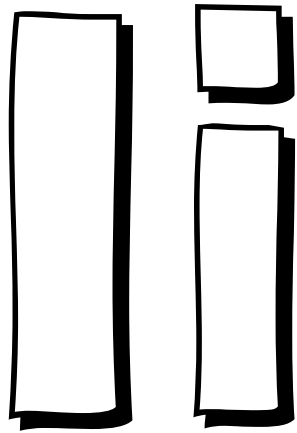
Hh

is for

Hereditary

**Things you get from family trees,
Like curly hair or allergies!**

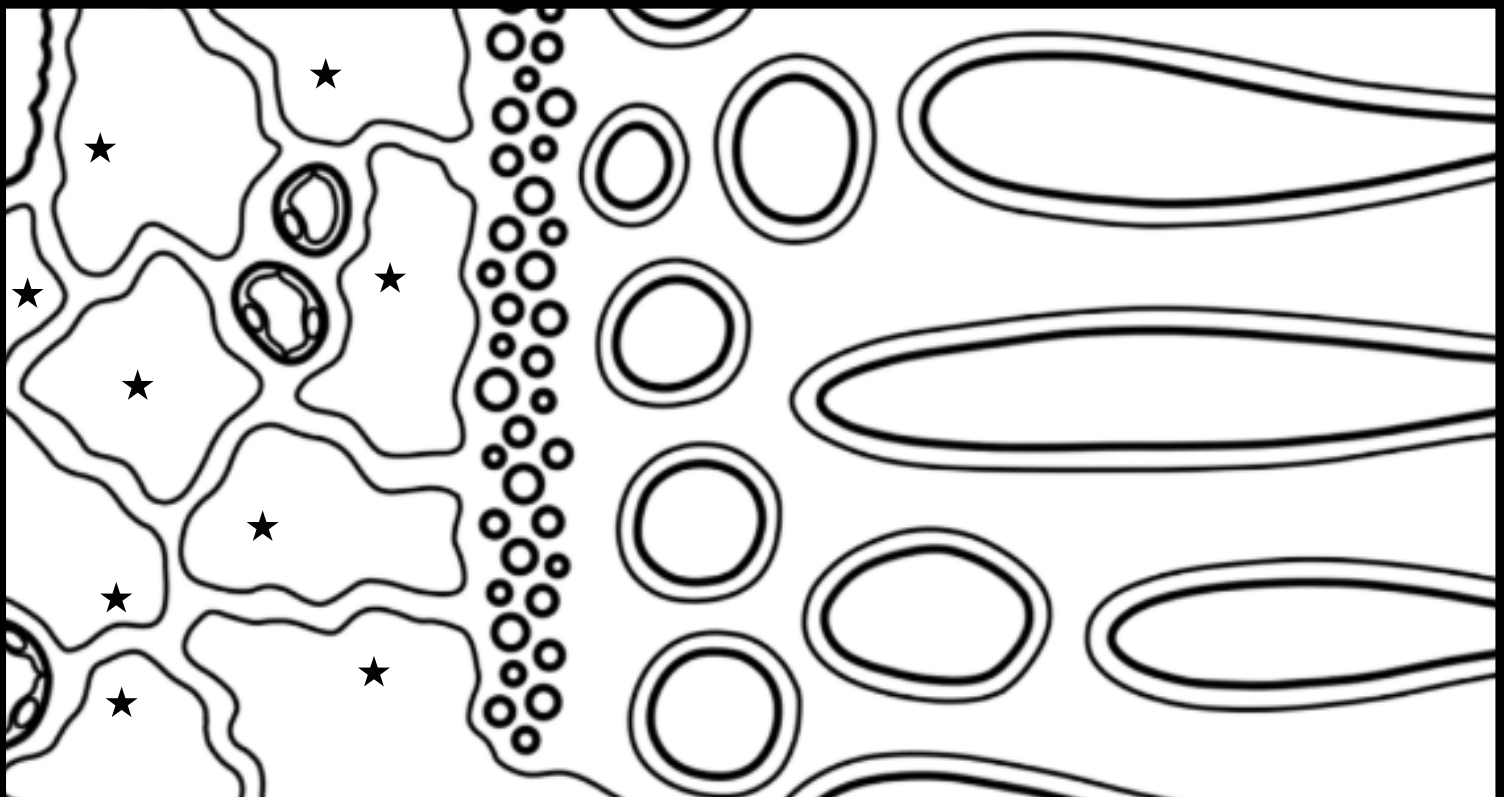




is for

Immunohistochemistry

**It paints the cells in colours bright,
So doctors see what's wrong or right!**



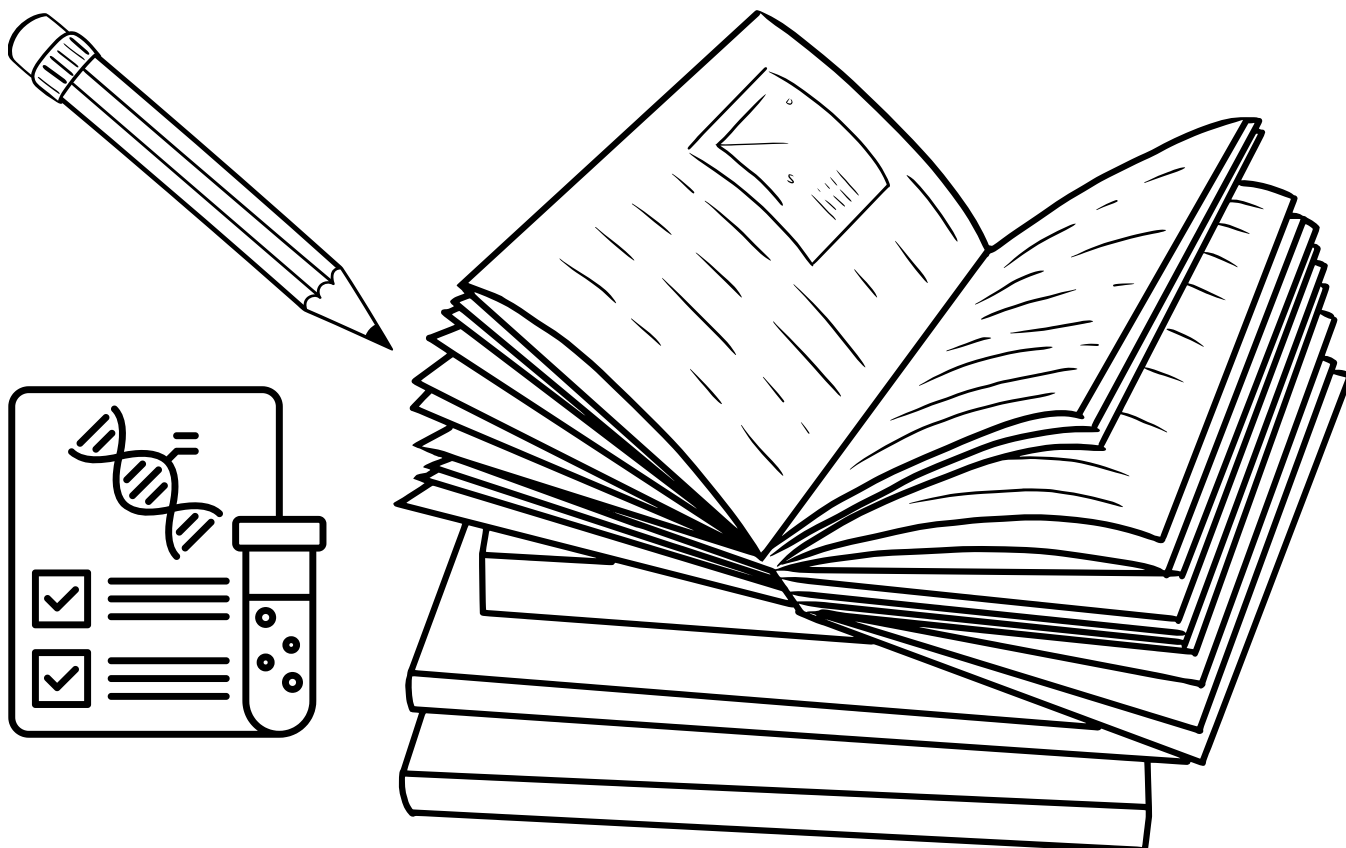
**Only certain cells 'light up' with a stain.
Use your highlighter to colour the cells with stars inside them.**

Jj

is for

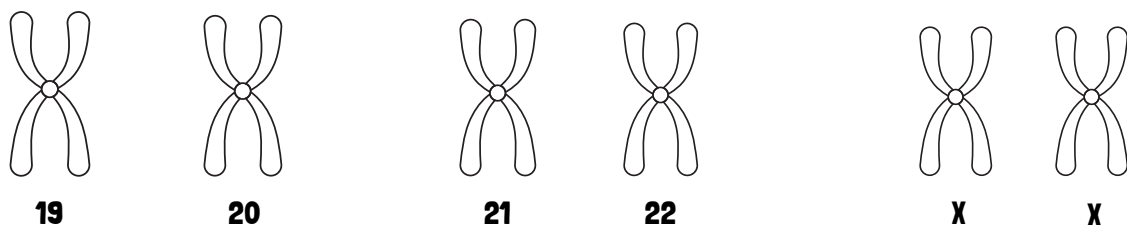
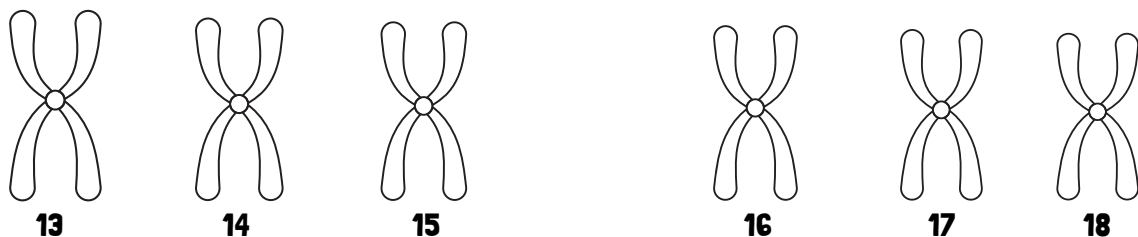
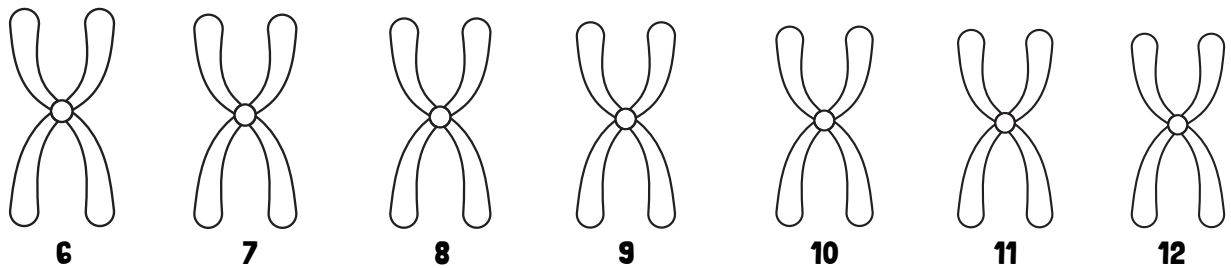
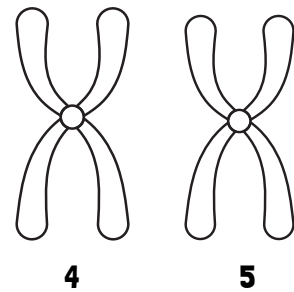
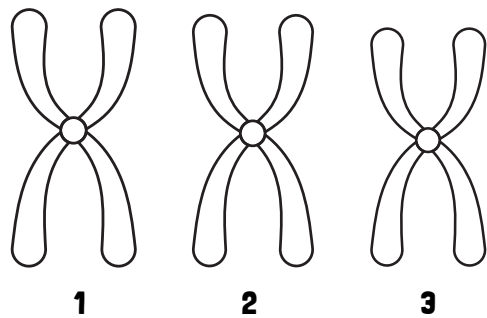
Journal

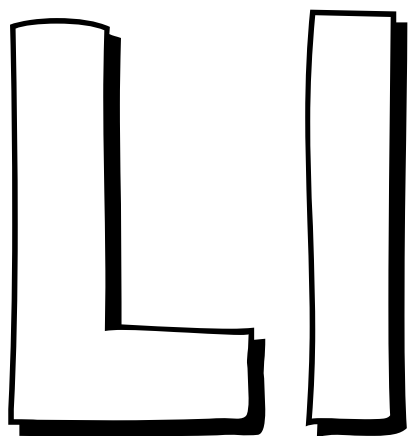
**Scientists write so the world can see,
How their cancer research brings new therapy.**



Kk is for **Karyotype**

**All chromosomes are placed in line,
We count and match – now isn't that fine?**

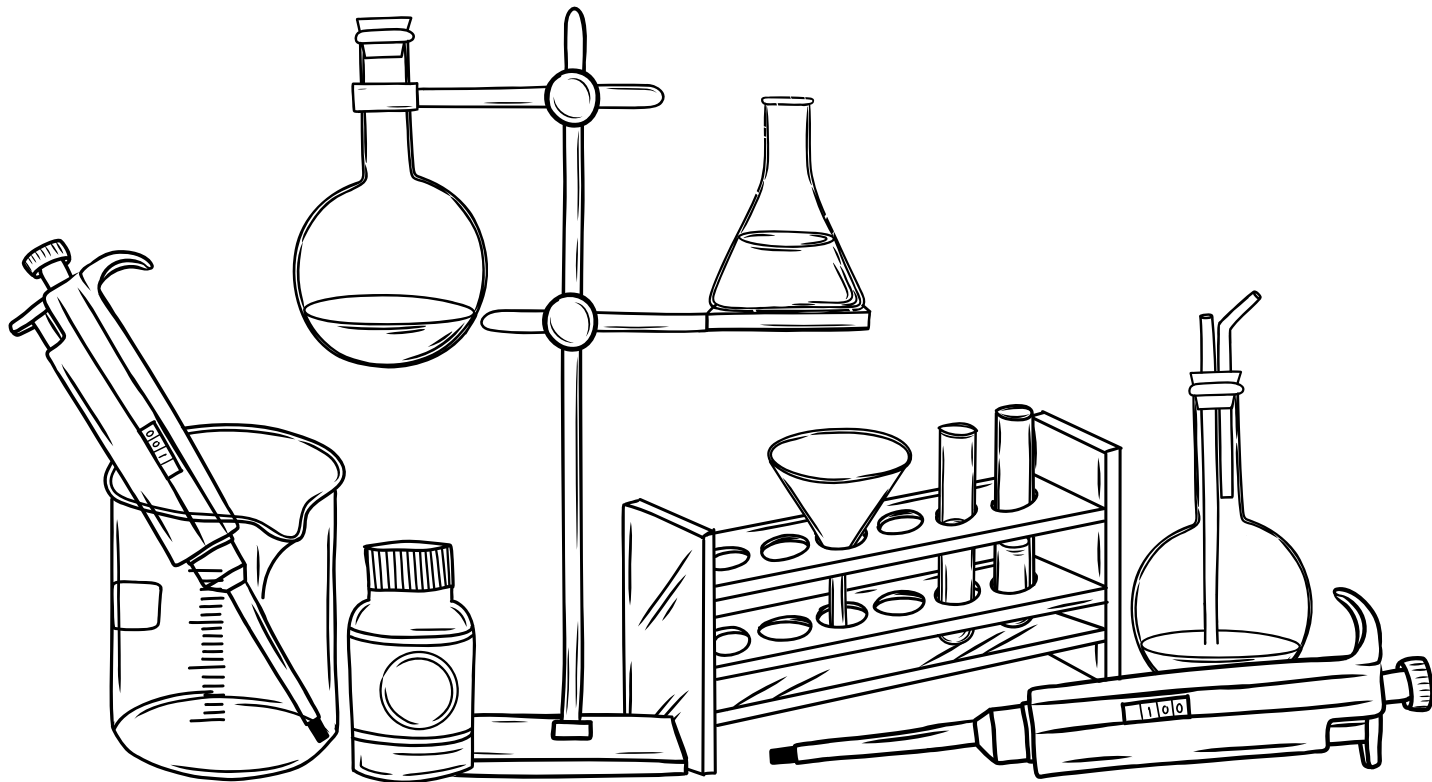




is for

Laboratory

**In the lab with tools so bright,
We test and learn with great delight!**

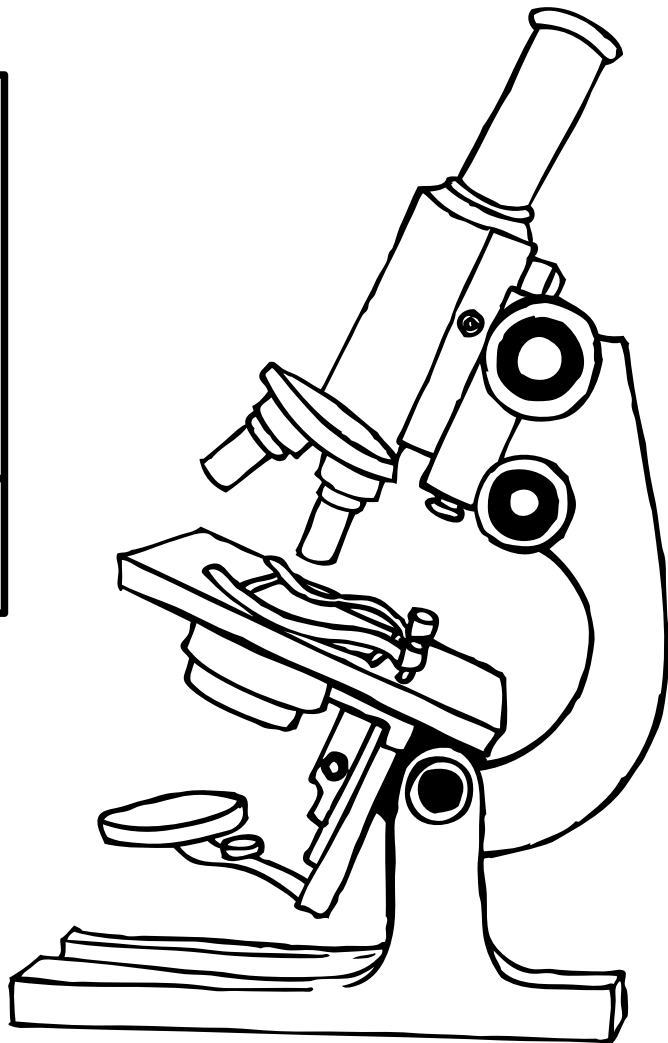
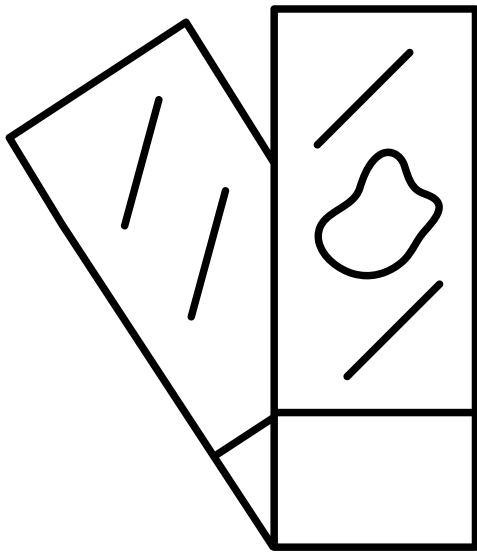


M m

is for

Microscope

**A microscope helps eyes to see,
The tiniest bits of you and me!**



Nn

is for

Nucleus

**The cell's command, a brain so bright,
It keeps the cell's work running right!**

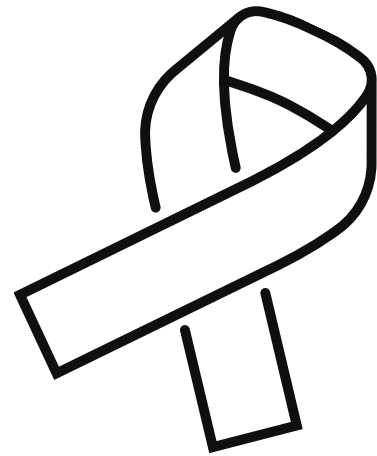


Nucleus

**Colour in the nucleus in a
bright colour!**

O O is for **Oncologist**

**A cancer doctor with great insight
In helping patients with their fight.**



Pp is for **Pathologist**

**They look at tissues on a slide,
And help your doctor know what's inside.**

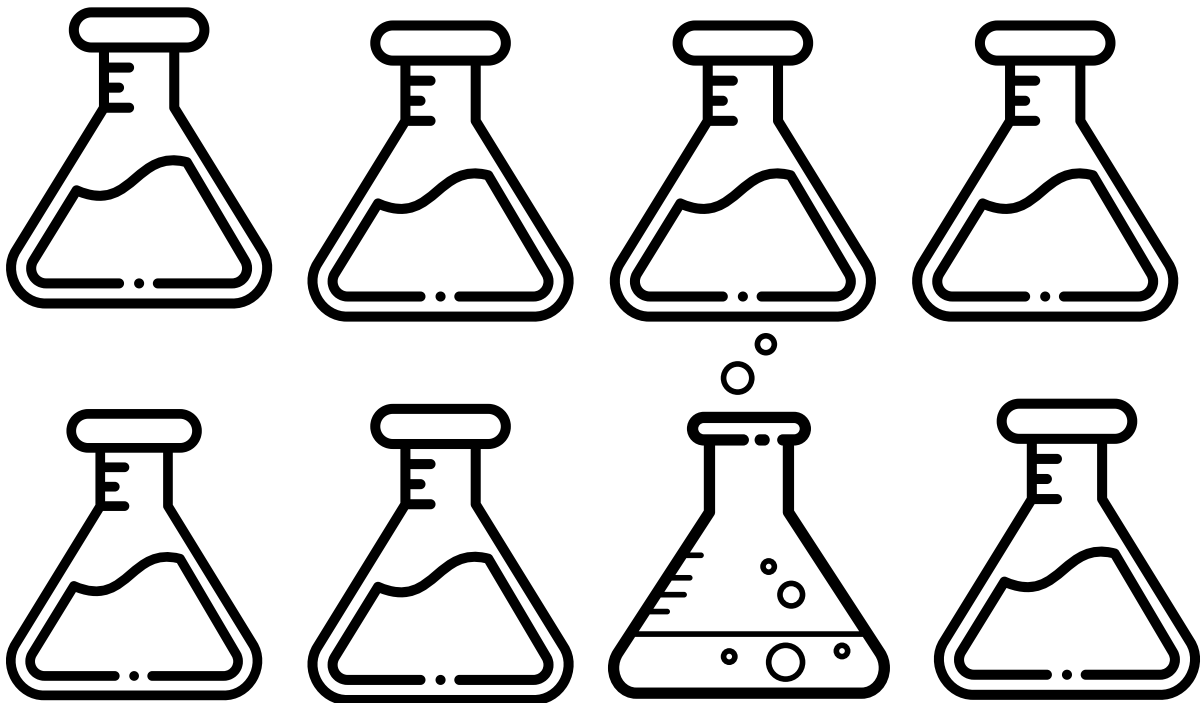


Q q

is for

Quality Control

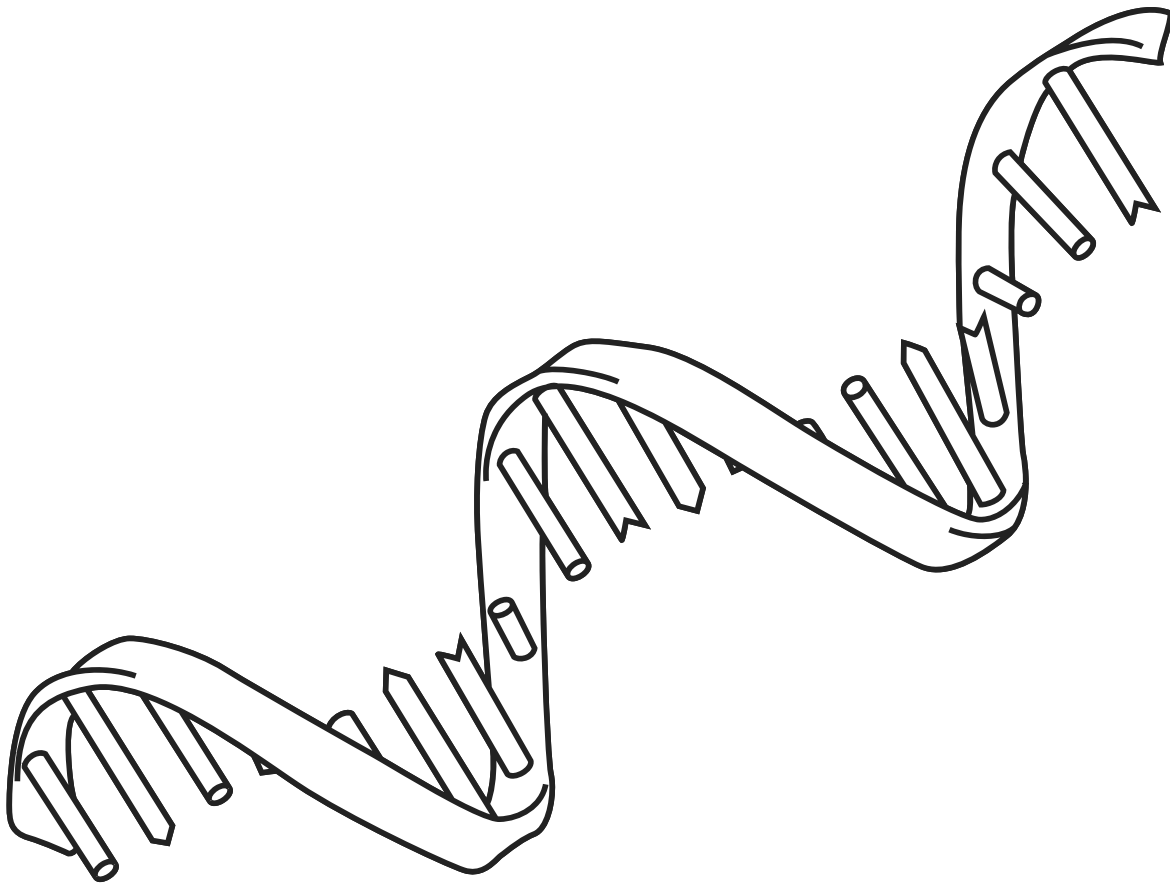
**Checking twice to make things right,
Keeping samples clean and bright.**



Which beaker is the odd one out?

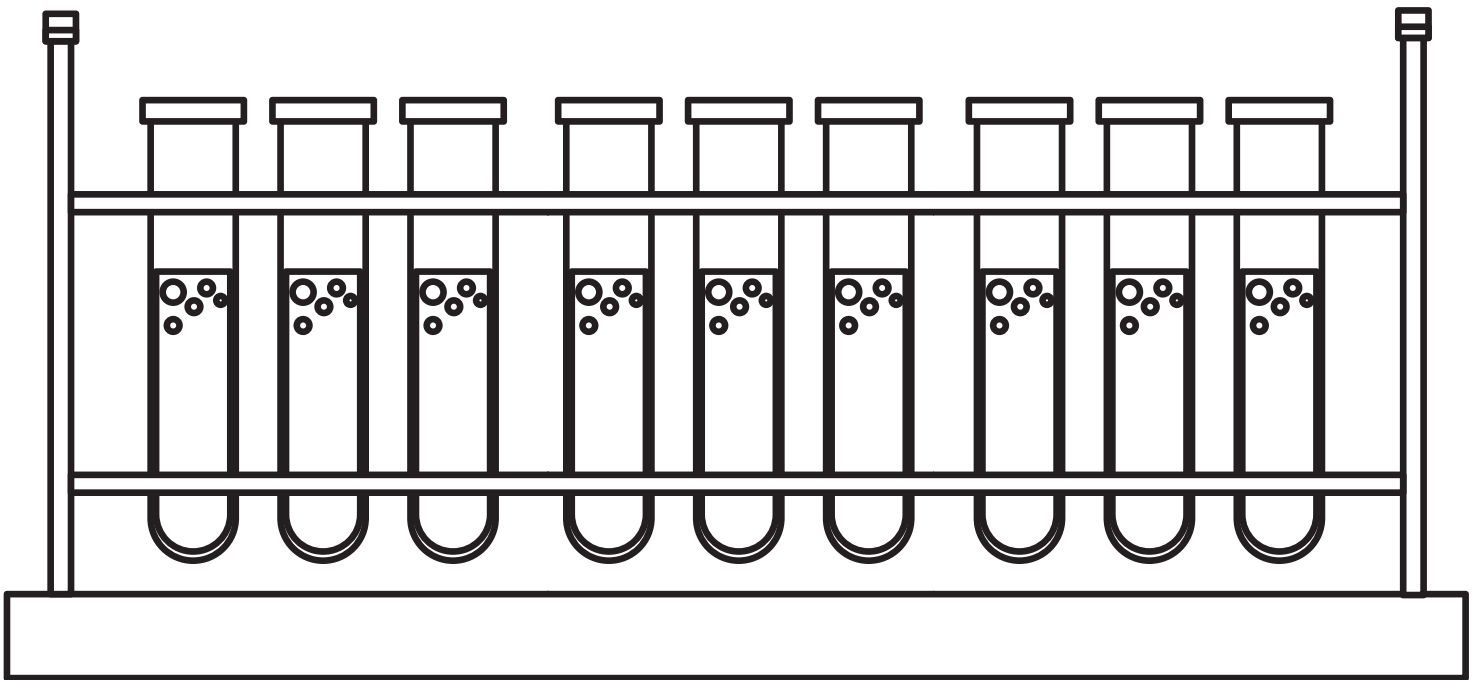
Rr is for **RNA**

**It reads the code and runs the show,
It tells the cell where things should go!**



Ss is for **Sample**

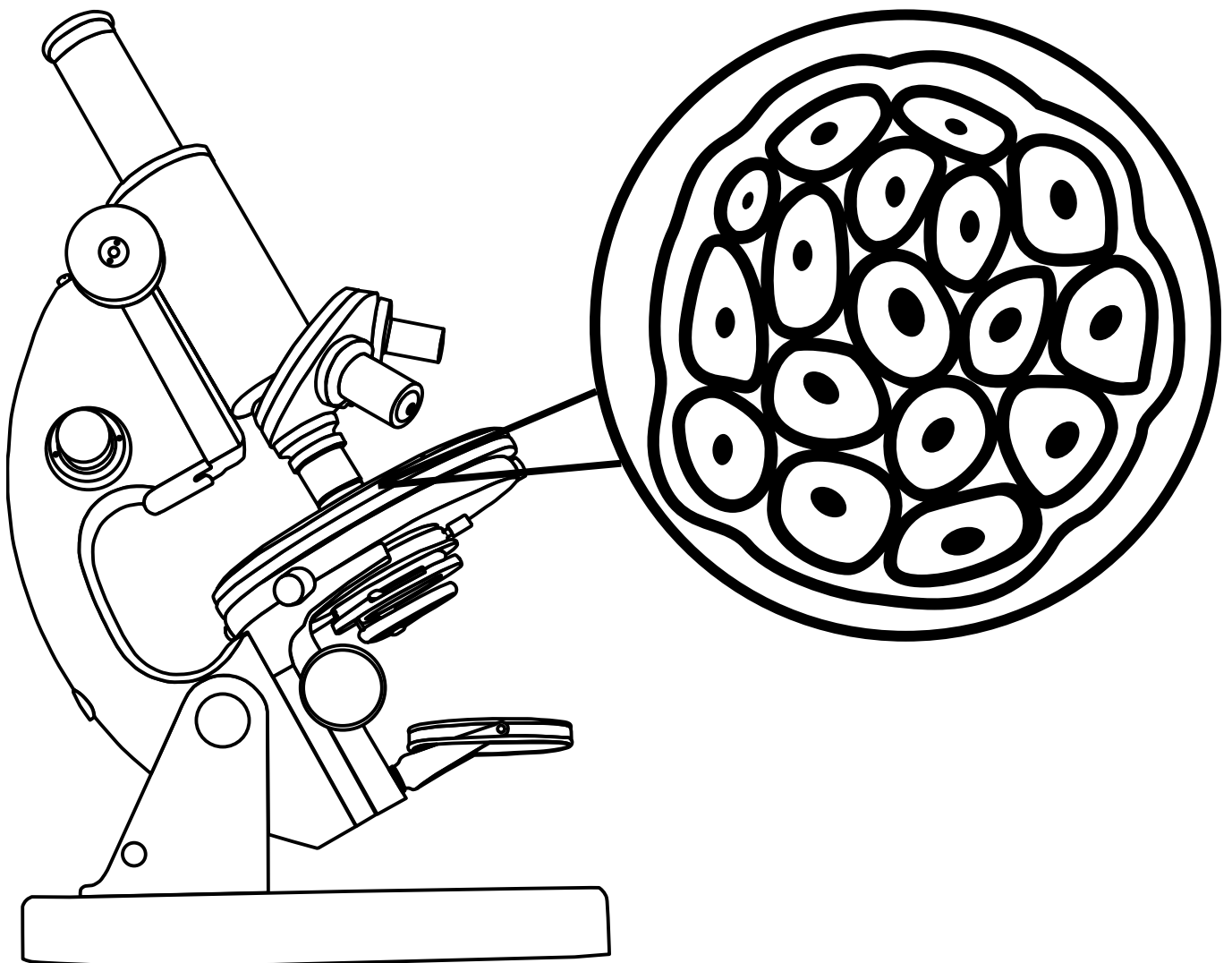
**A sample is a very tiny part,
That can help a doctor know where to start.**



Colour the samples in your favourite colours!

Tt is for **Tumour**

**A lump of cells that grow too fast,
Doctors check to make health last.**

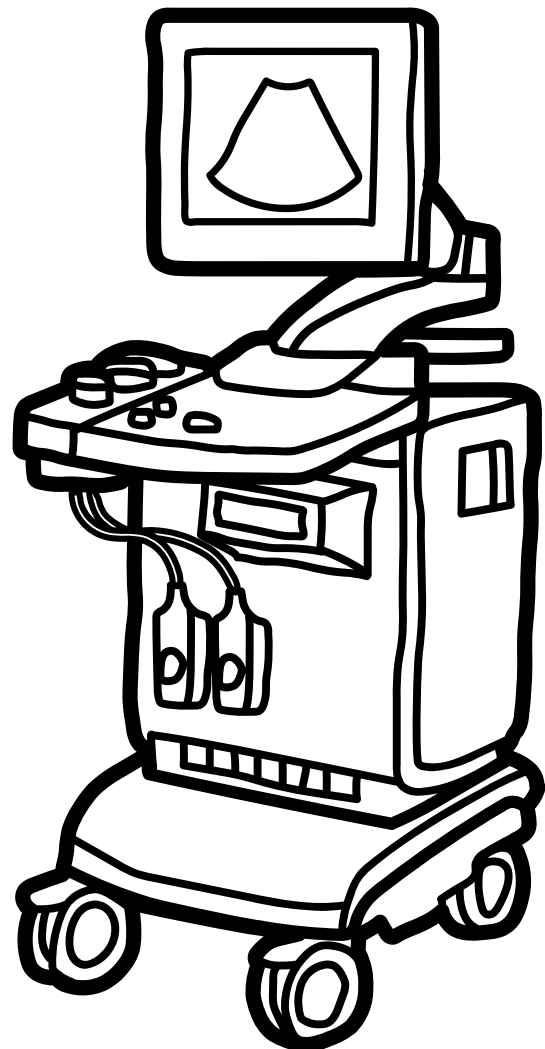


Uu

is for

Ultrasound

**With ultrasound pictures, doctors can see,
If a tumour is hiding where it shouldn't be.**

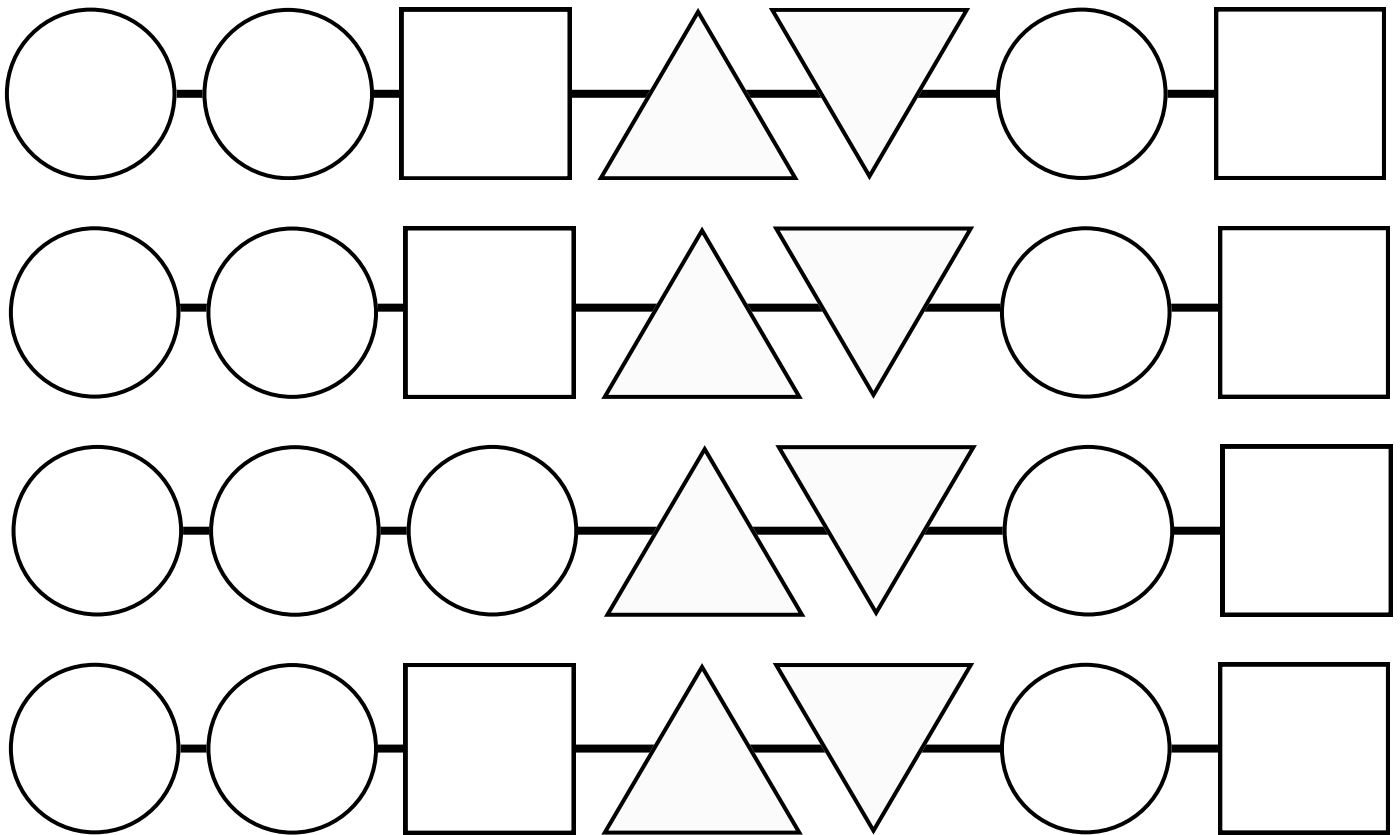




is for

Variant

**A tiny change, and that's okay,
It makes us different in every way!**

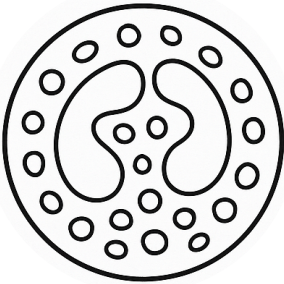


**Which one of these strands is different?
That is the variant!**

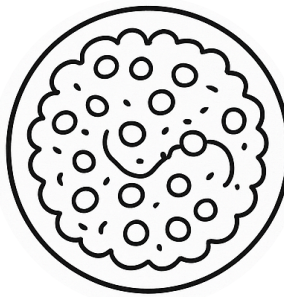
Ww

is for
**White
Blood Cell**

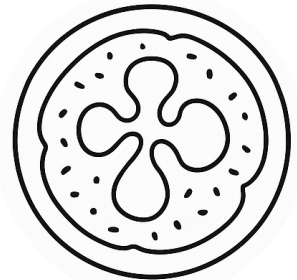
**White blood cells zoom and race,
Chasing germs from place to place!**



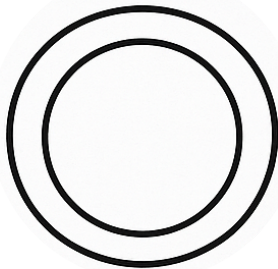
Eosinophils



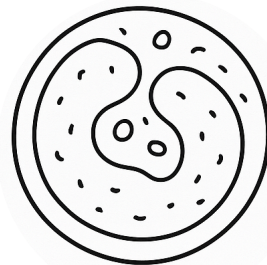
Basophils



Neutrophils



Lymphocytes



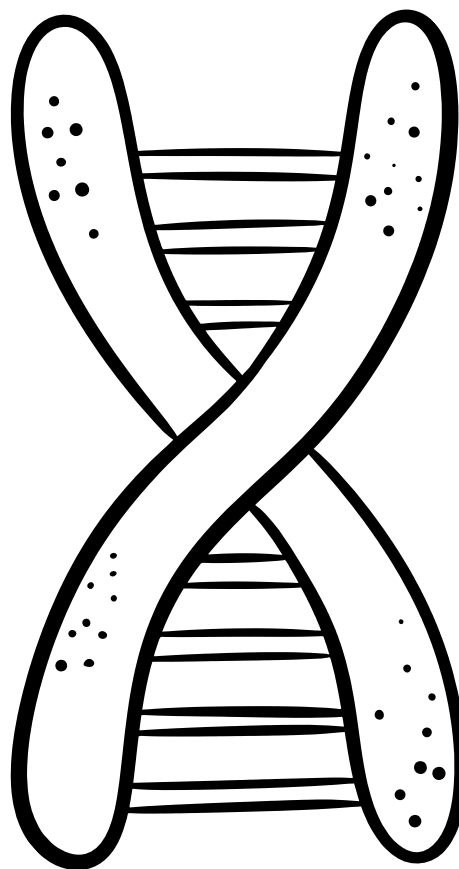
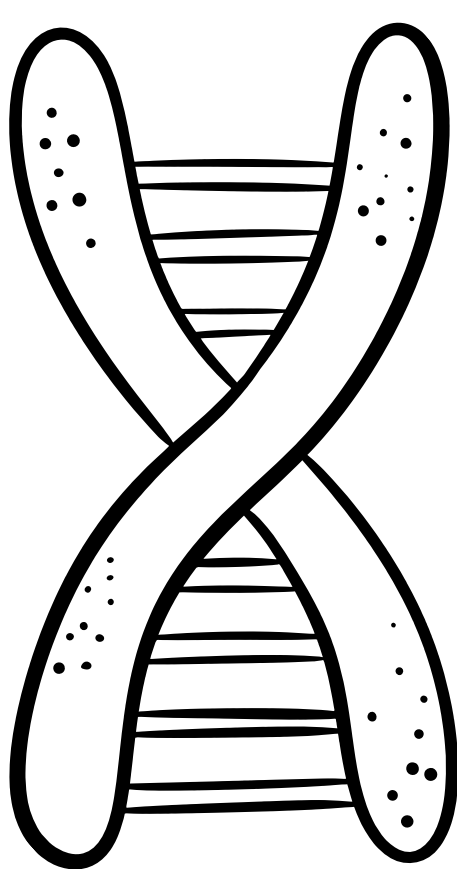
Monocytes

Xx

is for

X-Chromosome

**Two X's together can help life start,
They carry instructions, a blueprint chart.**

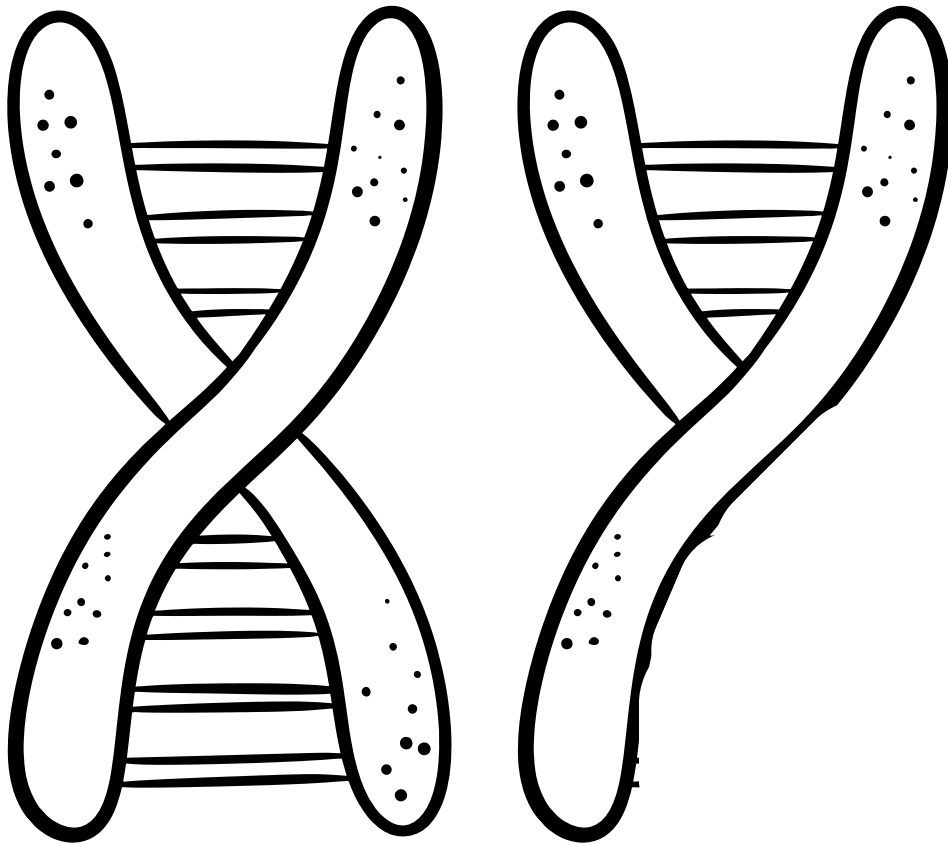


Yy

is for

Y-Chromosome

**Y is a chromosome, small and fleet,
Packed with genes that can't be beat!**

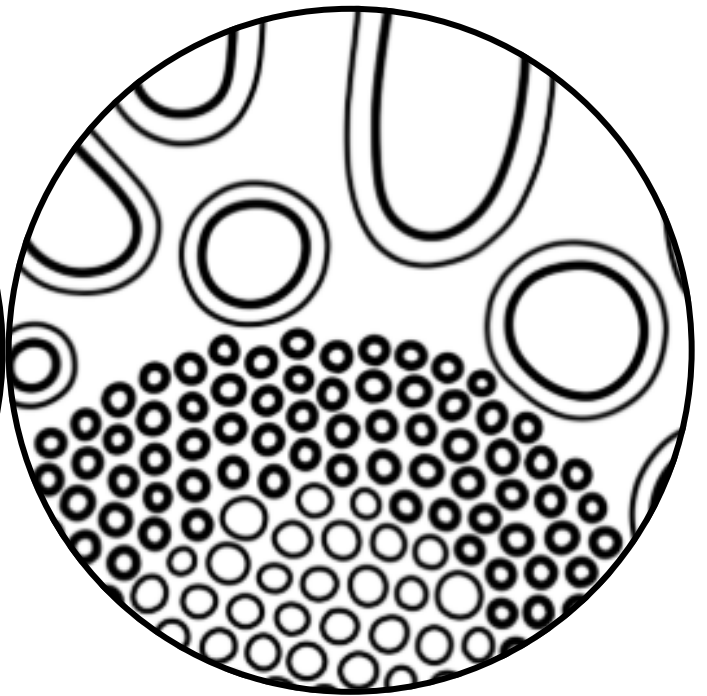
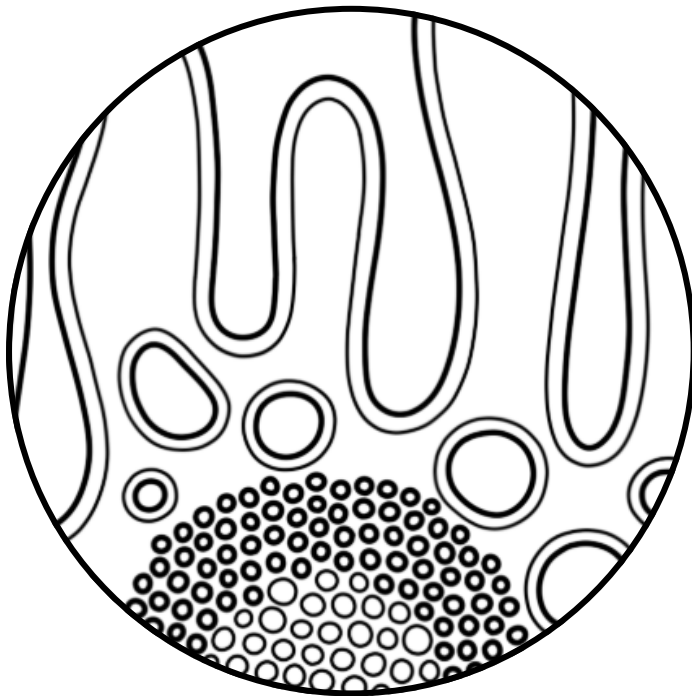


Zz

is for

Zoom

**Zoom in close, then closer still,
You'll spot a cell with shape and will!**



THIS COLORING BOOK WAS CREATED AS PART OF OMPRN'S MICROLEARNING INITIATIVE

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OMPRN

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OMPRN is a province-wide network of pathologists, clinical laboratory scientists and cancer researchers collaborating to carry out high-quality cancer research with a clear potential for clinical impact.

OMPRN was established by the Ontario Institute for Cancer Research (OICR) as part of its 2016-2021 Strategic Plan. OMPRN is also part of OICR's Adaptive Oncology (AO) Initiative.



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