Chapter 6: Cells

6.6 Eukaryotic cells undergo mitosis

Ask a scientist worksheet answers (pages 108–109)

Dr Misty Jenkins - immunologist

1 From the video introduction, what do you think an immunologist studies?

An immunologist studies diseases such as cancer.

2 How many researchers work at the Peter MacCallum Cancer Centre?

Approximately 400 researchers work at the Peter MacCallum Cancer Centre.

3 Your immune system is also known as your body’s defence system. Brainstorm the ways that your body protects you against disease.

Answers will vary, but could include:

• skin acts as an initial barrier to keep ‘bad’ substances out

• white blood cells fight off infection

• coughing and sneezing ejects ‘bad’ bacteria from the body

4 What are T-cells?

T-cells are special white blood cells.

5 Assign jobs the following cells as if they were people in the military.

|  |  |
| --- | --- |
| **Cell** | **Job** |
| Helper T-cells | Commanding officer |
| B-Cells | Medic |
| Killer T-cells | Infantry |

6 Create a See-Know-Wonder table for the following image.

|  |  |  |
| --- | --- | --- |
| **See** | **Know** | **Wonder** |
| (What can you see in the image?) | (What do you know about the image?) | (What do you wonder about the image?) |
| Responses will vary | Responses will vary | Responses will vary |