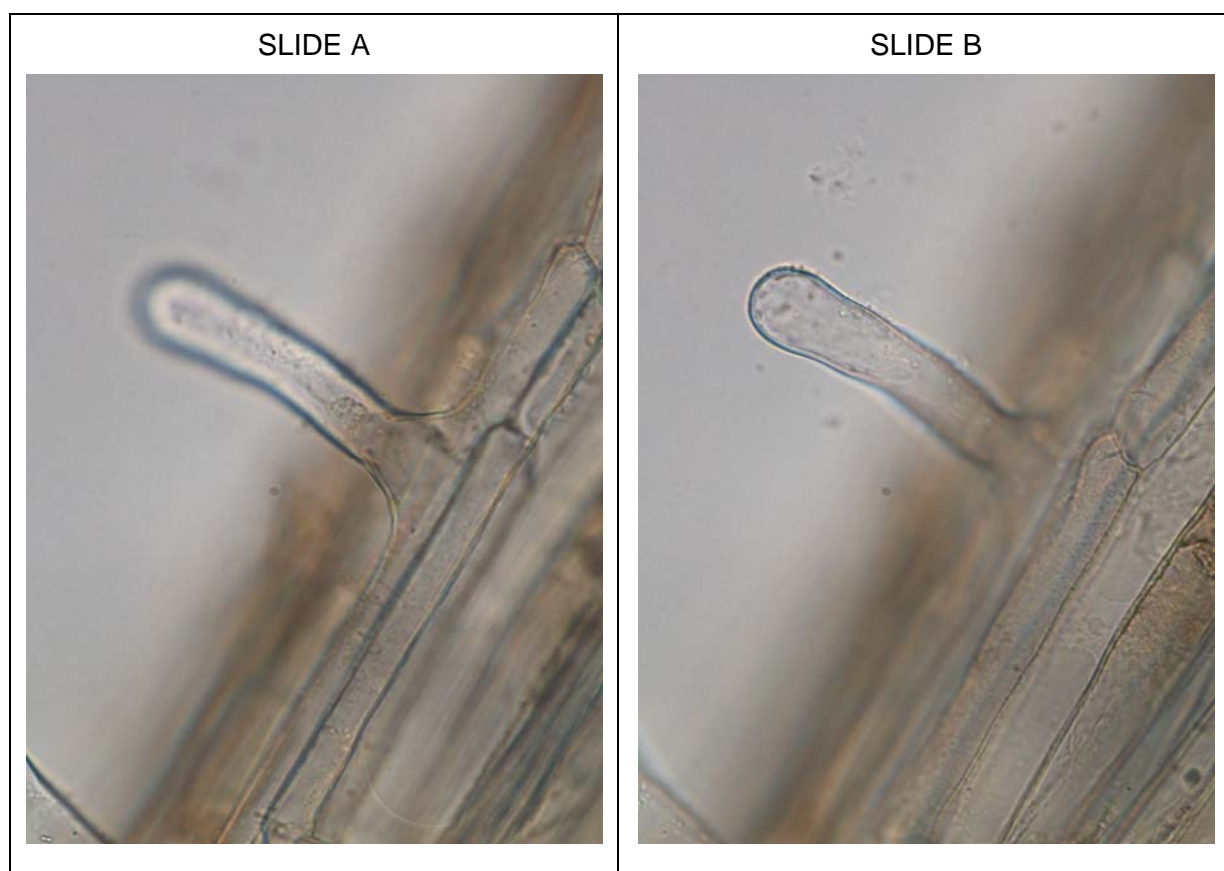
	<h1>CELLS ONLINE WORKSHEET</h1>
<b>TOPIC</b>	<b>ROOT HAIR CELL</b>

Actively growing plant roots have specialised cells called **root hair cells**, located near the growth zone close to the root tip. The cells are just like other long root cells except that they have what looks like a 'hair'. This 'hair' is **not** a separate structure attached to the cell (it is not like cilia or flagella), rather it is simply an extension of the plasma membrane and cell wall of the cell. The photos show a root hair cell, photographed at 600x magnification, at two different focus points to show all parts of the cell clearly. Almost the entire root hair cell is in the photo.



**Download this page, place in your notebook and answer the following questions.**

- Q1: Use the best photo to trace the outline of the whole root hair cell. Label the place where you can see the plasma membrane and cell wall extend away from the cell to form the 'hair'.
- Q2: Identify and label the cell wall and plasma membrane.
- Q3: Suggest a reason why having root hair cells is an advantage to the plant.