**Plant Evolution**

Apical Meristem is a tissue adaptation which helped plants survive during their evolving transition from water to land. It is the process of increase in length involving shoots and roots of plants resulting from rapid cell division. These are the key features that inspired innovation relating to space and resources such as light, water and minerals.

Roots are responsible for consumption of water and minerals, while a shoots sole purpose is to absorb light. To prove this groundbreaking discovery, scientists examined wuschel in the shoots of specific transitioning plants. During the early begging’s of evolution involving plants transition to land, Scientists concluded that Apical Meristem first evolved in all vascular plant sporophyte shoots.

This is the location where they were derived from meristem which was discovered to be located at the apex of each individual shoot. Apical Meristem were one of the last adaptations involving a plants transition to land. Their roots were forced to toughen up given to extreme circumstances they had to overcome, but this does not mean they were the first steps in the cycle of plant evolution.

The region of cells called Apical Meristem, are pretty much responsible for the growth in shoots and roots when the time for evolutions calls for living organism to evolve, adapt or change to their newfound surroundings. But unlike other living organisms such as animals, plants will continue to evolve throughout their entire existence due to their unlimited abilities pertaining to division.

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