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BSIT - 1202

**ACTIVITY VIDEO PRESENTATION**

1. **TRANSPLANT CELLS NOT ORGANS**
2. What is the main topic of the Dr. Lim’s speech?

Dr. Lim's speech focuses on her research about transplanting cells, an alternative approach rather than the traditional organ transplantation approach which involves replacing a damaged or failing organ with a healthy one from a donor.

1. What do you think prompted scientists like Susan Lim to inject changes that lead to development of medical practice?

Injecting changes in developing medical practices provide better care, meet patient expectations, and adapt to the ever-evolving healthcare landscape. As Dr. Lim conducted on her research, she focuses on stem cells as a potential source for cell transplants. Stem cells have inspired a shift in her mindset, prompting her to consider the possibility of using stem cells to regenerate tissues and organs. One fascinating avenue her associates are exploring involves deriving stem cells from adipose (fat) cells, which avoids some of the moral and ethical questions associated with using embryonic stem cells. Imagine a future where doctors could use your own fat cells to generate a new kidney, retina, or other needed cells were truly remarkable. Consequently, her work offers hope for treating diseases and conditions that affect many lives, including autoimmune diseases and retinal issues. Her research represents a promising step toward a future where cell-based therapies could revolutionize medicine and improve patients' lives.

1. In your opinion, how far should science go to save lives?

As I have gained knowledge from Dr. susan lim’s research, science and technology really have the potential to greatly improve human health and extend life expectancy, but at the same time, they also raise important moral and social issues. Some argue that the ends cannot justify the means, and that there are limits to what is appropriate to do in the name of saving lives. Others argue that science has a responsibility to pursue any promising avenue of research, even if it may involve substantial risks or moral uncertainty. Ultimately, the answer to this question will depend on one's values, beliefs, and personal ethics. It is important to engage in open and respectful discussion about the ethical implications of scientific research and technology, and to consider the potential consequences of different approaches to scientific and medical advancement.

1. **THE NEXT SPECIES OF HUMAN**
2. What are the three trends that have taken place for the last 25 years?

The ability to engineer cells

The ability to engineer tissues;

And robots

1. Identify three instances mentioned by Enriquez in his speech related to evolution.

Juan Enriquez highlighted instances in his speech. Firstly, the engineered Cells or Microbes. Craig Venter demonstrated the first fully programmable cells that act like hardware. These cells can be inserted and booted up as different species. Then, engineered tissues. The axolotl, an almost extinct animal from Xochimilco, Mexico, has the remarkable ability to regenerate its limbs. Freeze half of its heart, and it regrows; freeze half of its brain, and it regrows. Scientists have even managed to build cloned mice molars in Petri dishes, which suggests the possibility of growing human molars in similar conditions. And the engineered robots. While most of people may not yet have Rosie the Robot from "The Jetsons" in our homes, modern robots are designed differently. These robots are engineered for a world that isn't flat, unlike the flat world envisioned by earlier robot designs.

1. Do you believe that we will evolve into *homo evolutis*?

It is difficult to believe that humans may evolve into homo evolutis when in the first place, it’s contradicting my personal beliefs which is the creation or based on the Bible. Although, Enriquez's vision of evolving into Homo Evolutis is a controversial and speculative idea that has been the subject of much debate within the scientific community and it is true that technology and science have the potential to greatly improve human health and wellbeing, still the concept of "evolving" into a new species is a deeply complicated and ethically challenging idea that raises many questions and concerns.

1. What ideas did you get from the speech? Discuss.

Juan Enriquez proposed the vision of "homo evolutis," a new species of human that will be able to overcome the limitations of our physical bodies and extend our life expectancy, health, and well-being through advances in science and technology. This idea is based on the belief that humans have the ability to intentionally guide evolution through the use of advanced technologies, such as genetic modification and cybernetic enhancements. These ideas seem interesting but feels so unreal, it is somehow manipulation of humans evolution even if they had clear objectives and goals, still risks and disadvantages were inevitable.