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Title: Medical Biotechnology written by Albert Sasson in 2005

I read this book fearfully, because I have been away from these scientific English book for a while. But when I started reading I felt my feeling actively.

What is the Biotechnology? That means chemical reaction by creatures, or technology adopting the function to industry. That contains using genetic recombination, tissue culture, enzyme and so on.

There are huge examples from 1995 to 2005 about researchs and results of Biotechnology in the world, especially from northern hemisphere countries(Germany, France, UK, Spain and US etc.) On the other hand in some southern countries(Argentine, Brazil) and Cuba, researchers found many results originally. In Asia, China, India and Singapore were advancing.

They approach to investigate new facts and develop how to cure diseases of human and animals like SARS, Avian-flu and Diabete.

Thus, researcher developed many kind of vaccines and they focused on the biotechnology.

Bioethics of social acception of medical and phermaceutical biotechnology is very important on this stage. Biotechnology contains either much merits and much risks. But researcher rely on stem cells (known by the Nobel Prize of Professor Yamanaka studied about iPS cell 2012) for breast cancer, blood cancer and brain cancer.

So, we need terms of debate. Some country made law on bioethics and other country made stem cell bank. Serious move is being down on improving the technology.

Among challenges of knowledge and economic interest there are clear distinction between power and public health.

I give a happy example with respect : Professor Sato (cell biologist and inventor in US) and his team found anti-cancer drug Erbitux. After laboratory work was finished he moved to other projects. He could not receive the royalty of Erbitux (several hundred thousand dollars a year). But the laboratory at University of California arranged the license of the drug. Royalty payments apply for extension. So, He donated his money to help the poor.

The scientist should be like this!

おぼろげながらのレポートで恥ずかしいのですが、書いてみました。分かりにくかったり、間違っているところをご指摘いただくと幸いです。

渋谷 克子