

Gene Clone to the Future of Human

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Gene clone is also Molecular cloning, it belongs to life science subjects, it is used to purify special gene and make copy of them to identify their function and value. Gene clone is the study to decide gene selection and gene carrier on, the deep meaning related with human's evolution future [1].

As previous research that the DNA structure is same in human population, the difference made each person in varied type and behavior which comes from the different positive expression of DNA sequence. Gene clone can select a special gene to create recombinant DNA, which can use to buildup new born. A geneticist is in isolating and characterizing some particular gene of interest, the details of the process differ from organism to organism but from gene to gene.

Before 5000 B.C. Humans discover that they could improve corn crops by planting seeds from the best plants, it provided improving need selective excellent gene seeds to have harvest.

In 1869, Miescher JF extracted what came to be known as DNA which could have from the nuclei of white blood cells; In 1953, Watson and Crick found the structure of DNA [2].

Since 1990, Human Genome Project begins; till now gene clone science have gotten development broadly.

I have used gene clone to study lung biology since 2002 when I have worked at University of Pennsylvania School of Medicine; the approach method was to knockout a special gene in full set of DNA sequence in structure of an antioxidative enzyme and observed how was is important to oxidant stress situation, the observation result has released as News at EB Conference 2003 San Diego. In projects, the special gene in gene clone has made double copies in over expression which in order to enhance its antioxidant function, as expectation, good gene make copies can bring defend to worse situation, one of mine related article published in 2004 at *American Journal of Physiology, Lung Cellular and Molecular Physiology* [3].

Human have varied genetic diseases from deficiency of important gene or with addition useless gene which bring our body in disorder of function and behavior. According to gene clone, there is an optional treatment to the genetic diseases, also depending on gene clone databank information, the good gene carrier persons can be selected to have new born children which can decrease future burden on treat the genetic diseases.

By human's power and will to evolution of human to higher qualify in adaptability, behavior and spiritual, scientists can design gene sequence to buildup genotype for new generation, gene clone is used to select important genes and make artificial reconstruction into the gene sequence. To have a new born, embryonic development is reproduced by gene clone, then currently the successful cases only happy in animals as sheep, the first GENE SHEEP in the world was born from mature differentiated somatic cell (sheep breast gland cell) in 1996 [4]. The labeled number is: 6LLx; she was the most famous sheep in the world by media as BBC reported before. This clone technique exposed a huge development in Medicine, the deeper meaning major in Embryology, developmental Genetics or General Medicine, it has also pushed forward healthcare in Organ Transplantation, Human Benefit or animal race innovation.

When considering of making scientific lucky baby for future human generation by gene clone in biological evolution, we also remember natural evolution to pick up human's future population.

In truth, scientists have used gene clone in revising and correcting human gene in study all the time, and then go to gene clone reproduction, it is longer road to see the welfare to human's future, is it necessary for us to think of it now?

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