Genetic Engineering – Cloning

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Abstract

Gregor Johann Mendels major postulates of transmission genetics described in a few simple and accurate laws has lead to monumental number of reasearches which described the nature of genes and en route to the emergence of genetic engineering fields. Genetic engineering as a science and technology is an evitable approach of many disciplines.

Genetic engineering provides a tool and understanding that is utilized in genetic manipulation and played a significant role in scientific and economical development it is extensively employed in biomedicine, forensic DNA technology, industry etc.

Although genetic engineering and organism cloning are similar in concept, the former aims at elucidation and characterization, and manipulation of genes pertinent to diseases or therapies or improving animal or plant production. On the other hand organism cloning aims at generating a replica of the whole organism by implanting a nucleus from a cell into nucleus less ovum.

In the 1990s the human genome project was deployed in the us to decipher the genetic code in 2003-and so it happened with the complete draft deposited in the databases in April of 2003 the projects is providing a fertile ground to identify genes and genetic Variation in the human population which eventually will lead to the so called, custom Tailored, medicine among other things.

The repeated success stories in genetics have expanded man’s ambition to explore a far fetched horizon, namely, whole organism cloning the first fruit of this ambition was plucked when the sheep dolly was born the curiosity of human is wandering even farther as to encompass human cloning there are persistent attempts but no success has been shown.

These scientific accomplishments do not entail creation as whole organism cloning is arguably considered cloning in the original meaning of the word however, a more insightful framework must be employed to regulate these researches and directed toward philanthropist aims.

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