Personalized medicine; CRISPR-Cas9; Genetic variation; Molecular biology; Biomedical ethics

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e Genomic Revolution, propelled by Recombinant DNA

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stra a company series (1.1).

e genomic insights obtained from the HGP have paved the way for personalized medicine. Understanding the genetic basis of diseases has enabled the development of targeted therapies, diagnostic tools, and preventive strategies tailored to an individual's genetic makeup. Genetic testing for susceptibility to certain diseases, drug response prediction, and the identi cation of therapeutic targets are now a reality, marking a paradigm shi from one-size- ts-all medicine to precision medicine [7].

e ability to manipulate and understand the human genome raises ethical concerns. Issues such as genetic privacy, consent for genetic testing, and the potential misuse of genetic information necessitate careful consideration. e ethical landscape expands with the Page 2 of 2