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DNA SEQUENCING REVOLUTION: APPLICATION TO PEDIATRIC ONCOLOGY

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Rapid improvement in the DNA sequencing technologies can revolutionize personalized genomic medicine by making this health care approach faster and more cost-effective. The technological revolution in high-throughput screening (HTS) and relatively lower-cost next-generation sequencing (NGS) of DNA influences the profound understanding of the individual genetic makeup: these technologies predict the susceptibility to a disease thus pave the way for therapeutics and personalized medicine. This especially becomes of a paramount importance in pediatric oncology. For a quicker detection of a genetic predisposition to hereditary malignancies and any pathology at early stages allows then to combat some of the illnesses prematurely and to avoid

ineffective and virulent therapies hence to improve the healthcare and wellness.

Biography

Ekaterina Bazyleva was graduated from the German School in Moscow in 2014 and moved to Japan to complete her 12th year of school education. Currently she is a student of Medical University of Varna in Bulgaria and she is working on her PhD as a student in Department for Personalized and Precision Medicine in University of World Politics and Law, Moscow, Russia. Her research interest lies in the areas of Immunology, Oncology, Personalized Medicine, Biotechnology and Artificial Intelligence.

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