

Targeted NGS

Nathan Treff, USA

Comprehensive chromosome screening (CCS) can be performed with a wide variety of amplification and analysis methods. While whole genome amplification (WGA) provided some success with SNP arrays, array CGH, and next generation sequencing, more contemporary methods of targeted PCR provide unique advantages and avoid the many associated pitfalls of WGA. These include the ability to perform reliable simultaneous analysis of genotypes for single gene disorders, contamination testing, and triploidy prediction, and the ability to differentiate mosaicism more effectively. Furthermore, better reliability of targeted CCS substantially improves accuracy, workflow, and cost of performing testing.