NGS HLA typing solution, 3/16

March 2016—Immucor, in collaboration with Sirona Genomics, announced the launch of Mia Fora NGS, a high-resolution human leukocyte antigen typing solution that provides accurate, comprehensive coverage of 11 HLA genes. With a workflow that can be automated or run manually, Mia Fora NGS is adapted for use on the Illumina MiSeq next-generation sequencing platform and is available for research use only in the U.S. and other countries, with CE mark anticipated shortly.

Mia Fora allows HLA laboratories to achieve high-resolution matching with results in one pass. The sample preparation kit for long-range PCR and library preparation is user friendly with all-in-one master mixes, one PCR setup protocol, one amplification condition for all genes, and a gene balancing program. Users also have the option to automate front-end sample handling. It provides whole gene coverage of all major HLA gene regions, including for HLA-A,B, C, DPA1, DQA1, and DQB1; all exons and introns for HLA-DRB1,3,4,5 except partial coverage for exon 6 and intron 1; and all exons and introns between exons 2 and 4 for HLA-DPB1.

With an intuitive user interface, the software uses three algorithms for accurate genotyping calls, a proprietary database for accurate mapping and alignment, and a smart flagging system that enables users to make accurate allele calls rapidly.

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