NON-INVASIVE SELECTION OF OPTIMAL EMBRYOS IMMEDIATELY PRIOR TO EMBRYO TRANSFER USING BIOINFORMATIC ANALYSIS OF SPECTRAL DATA FOLLOWING MATRIX ASSISTED LASER DESORPTION IONISATION TIME OF FLIGHT MASS SPECTROMETRY

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BACKGROUND & APPROACH

MAP Test Process - A Simple Process Using MALDI

1. Obtain a Sample
2. Apply Sample
3. Load sample Plate
4. Fire Laser
5. Data Analysis
6. Results

10 Minutes
DATA ACQUISITION

Average
peaks at median

Upper bound
peaks at 97.5 percentile

Lower bound
peaks at 2.5 percentile
MACHINE LEARNING ALGORITHMS
RESULTS & CONCLUSION

83% to 90% Accuracy