

**Prediction of *Streptococcus uberis* clinical mastitis treatment success in dairy herds
by means of mass spectrometry and machine-learning**

**Alexandre Maciel-Guerra^{1§}, Necati Esener^{2§}, Katharina Giebel³, Daniel Lea⁴, Martin J.
Green², Andrew J. Bradley^{2,3} and Tania Dottorini^{2*}**

¹University of Nottingham School of Computer Science, Jubilee Campus, Wollaton Rd,
Nottingham, Nottinghamshire NG8 1BB, UK

²University of Nottingham School of Veterinary Medicine and Science, College Road, Sutton
Bonington, Leicestershire, LE12 5RD, UK

³Quality Milk Management Services Ltd, Cedar Barn, Easton Hill, Easton, Wells, BA5 1DU,
UK

⁴Digital Research Service, University of Nottingham, College Road, Sutton Bonington,
Leicestershire, LE12 5RD, UK

§ co-first authors

*corresponding author (email: tania.dottorini@nottingham.ac.uk)

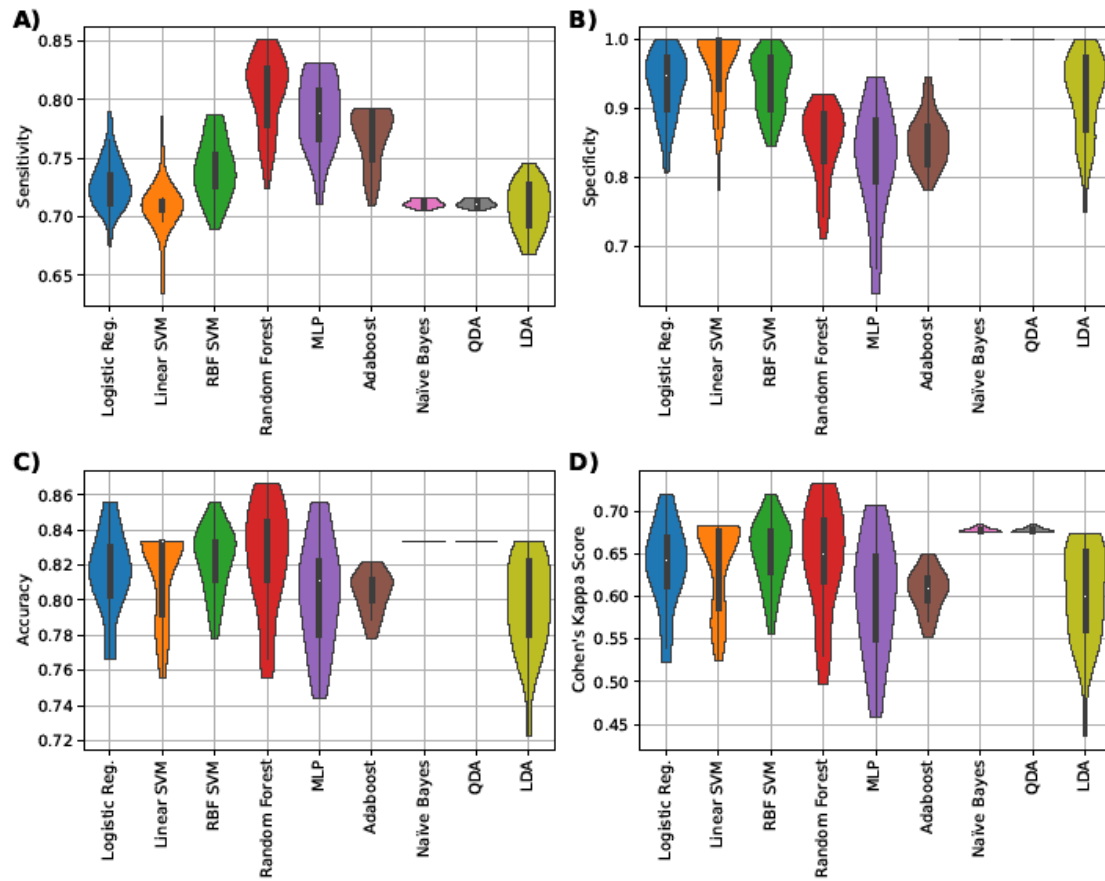


Figure S-2. Performance metrics results for the data set composed with the three external features. A) Sensitivity, B) Specificity, C) Accuracy and D) Cohen's kappa values of nine different classifiers (logistic regression, linear SVM, RBF SVM, random forest, MLP NN, Adaboost, QDA and LDA) are shown.