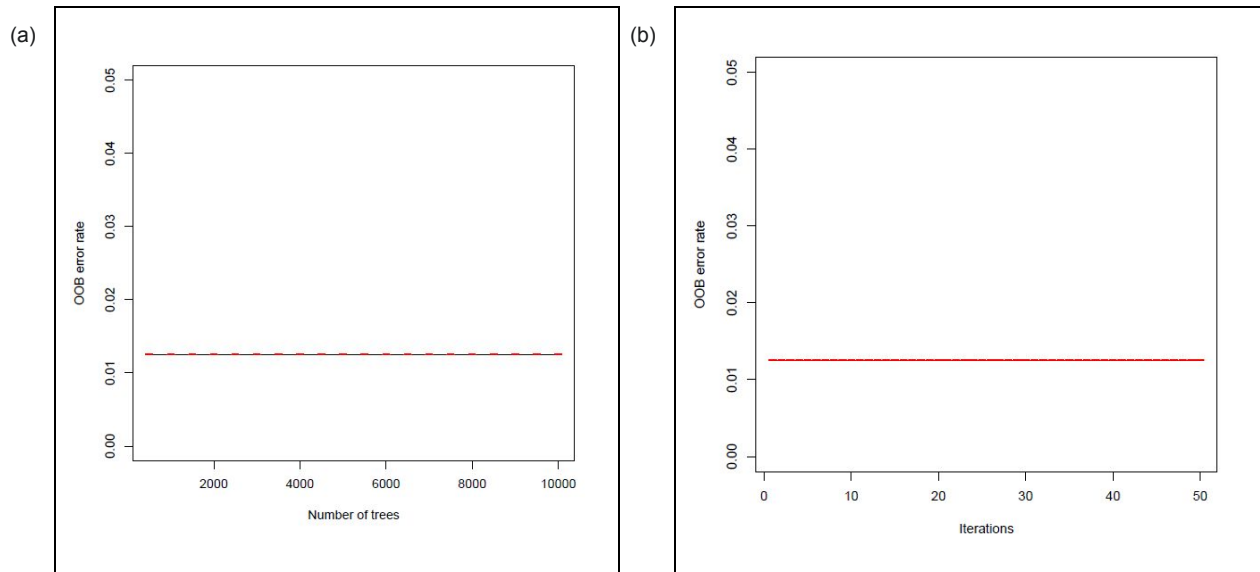


Additional File 2. Fine-tuning *randomForest* parameters *mtry* and *ntree*.



Supplementary Fig.1: (a) Tuning *ntree* using R package “*tuneNTREE*” with values starting from 500 to 10,000. Each *ntree* value was iterated 5 times and obtained a 1.25% error rate. Error bar is displaying the standard deviation of the OOB error rate for each *ntree*. (b) Tuning *mtry* using R package “*tuneRF*” with *mtry* values $\frac{1}{2}\sqrt{p}$, \sqrt{p} (default value=150) and $2\sqrt{p}$, where p is the number of variables = 22,711 and *ntree* value 2000 for each 50 iterations. The error rate for $\frac{1}{2}\sqrt{p}$, \sqrt{p} and $2\sqrt{p}$ for each iteration was 1.25%. Error bar is displaying the standard deviation of OOB error rate for different *mtry* in each iteration.