Package	Source	Version	Note
	1	R vers	ion
Base packages	CRAN	4.0.0	-
		Common p	purpose
data.table	CRAN	1.13.0	-
dplyr	CRAN	1.0.6	-
stringr	CRAN	1.4.0	-
doParallel	CRAN	1.0.15	-
BiocParallel	BC	1.22.0	-
ggplot2	CRAN	3.3.2	-
	T	Randomiz	zation
tuple	CRAN	0.4-02	-
randomizr	CRAN	0.20.0	-
	T	Integrat	tion
ipo	BC	1.14.0	-
Autotuner	BC	1.2.0	-
MetaboAnalystR	GH	3.0.2	-
xcms	BC	3.9.1	-
warpgroup	GH	0.1.0.9001	-
ncGTW	BC	1.2.0	-
	1	Correct	tion
pmp	BC	1.0.0	-
StatTarget	BC	1.20.0	This version allows to set high value in the CV cutoff
MetNormalizer	GH	1.3.02	-
batchCorr	GL	0.2.5	-
BatchCorrMetabolomics	GH	0.1.14	-
notame	GH	0.0.5	-
openxlsx	CRAN	4.1.5	-
pbapply	CRAN	1.4-3	-
caret	CRAN	6.0-86	-
rpart	CRAN	4.1-15	-
ipred	CRAN	0.9-9	-
catboost	GH	0.20	-
xgboost	CRAN	1.2.0.1	-
dbnorm	GH	0.2.2	-
ProteoMM	BC	1.6.0	-
WaveICA	GH	0.1.0	-
NormalizeMets	CRAN	0.25	-
RUVSeq	BC	1.22.0	-
edgeR	BC	3.12.1	This version allows to load RUVSeq
			package
tibble	CRAN	3.0.3	-
fpc	CRAN	2.2-7	-
FactoMineR	CRAN	2.3	-
cluster	CRAN	2.1.0	-
proBatch	BC	1.4.0	-
gPCA	CRAN	1.0	-
MetabolomicsBasics	CRAN	1.1	-
factoextra	CRAN	1.0.7	-

rafalib	CRAN	1.0.0	-					
RSEIS	CRAN	3.9-0	-					
ggsci	CRAN	2.9	-					
_ 66**		Annota	tion					
CAMERA	BC	1.44.0	-					
RamClustR	GH	1.1.0	-					
xMSannotator	GH	1.3.2	From kuppal2 repo (https://github.com/kuppal2/xMSannotator). Fix for R 4.0 fun string 95 to n2<-as.data.frame(n1, stringsAsFactors = T). According to yufree repo (https://github.com/yufree/xMSannotator). Install manually (tar.gz), type = "source". Also see instruction from GH and SF.					
	1	Normaliz	ation					
affy	BC	1.66.0	-					
clusterSim	CRAN	0.49-1	-					
DiffCorr	CRAN	0.4.1	-					
lmm2met	GH	1.0	-					
MetabolomicsBasics	CRAN	1.1	-					
lme4	CRAN	1.1-23	-					
lmerTest	CRAN	3.1-2	-					
NormalizeMets	CRAN	0.25	-					
RColorBrewer	CRAN	1.1-2	-					
limma	BC	3.38.3	-					
		Imputa	tion					
MetProc	CRAN	1.0.1	-					
impute	BC	1.62.0	-					
mice	CRAN	3.11.0	-					
missForest	CRAN	1.4	-					
StatTools	GL	0.0.915	-					
pcaMethods	BC	1.80.0	-					
imputeLCMD	CRAN	2.0	-					
imputeR	CRAN	2.2	-					
vegan	CRAN	2.5-6	-					
missMethods	CRAN	0.2.0	-					
Grouping								
corrr	CRAN	0.4.3.9000	-					
gplots	CRAN	3.0.4	-					
tidyverse	CRAN	1.3.0	-					
igraph	CRAN	1.2.6	-					
ggraph	CRAN	2.0.3	-					
robCompositions	CRAN	2.3.0	-					
compositions	CRAN	2.0-1	-					
gridExtra	CRAN	2.3	-					
stringi	CRAN	1.5.3	-					
notame	GH	0.0.5	-					
pmd	CRAN	0.1.9	-					
Statistics								
pcaMethods	BC	1.80.0	-					

OutlierDetection	CRAN	0.1.1	-	
caret	CRAN	6.0-86	Other methods may require additional	
			packages	
klaR	CRAN	0.6-14	The klaR package should be exactly version	
cwhmisc	CRAN	6.6	0.6-14 for RFS	
CWIIIIISC	CKAN	0.0	The shapiro.wilk.test function should be used if some error with normality test in	
			UVF.	
tuple	CRAN	0.4-02	-	
pamr	CRAN	1.56.1	For ML model in caret	
pls	CRAN	2.7-3	For ML model in caret	
kernlab	CRAN	0.9-29	For ML model in caret	
randomForest	CRAN	4.6-14	For ML model in caret	
ropls	BC	1.20.0	-	
structToolbox	BC	1.0.1	For multigroup Fold Change	
MetabolomicsBasics	CRAN	1.1	-	
lme4	CRAN	1.1-23	-	
lmerTest	CRAN	3.1-2	-	
limma	BC	3.38.3	-	
NormalizeMets	CRAN	0.25	-	
permimp	CRAN	1.0-0	-	
party	CRAN	1.3-5	-	
glmnet	CRAN	4.0-2	-	
MASS	CRAN	7.3-52	-	
pROC	CRAN	1.16.2	-	
reshape2	CRAN	1.4.4	-	
leaps	CRAN	3.1	-	
gWQS	CRAN	3.0.3	-	
vegan	CRAN	2.5-6	-	
pairwiseAdonis	GH	0.0.1	-	
multcomp	CRAN	1.4-13	-	
MetStaT	CRAN	1.0	-	
mixOmics	BC	6.12.1	-	
timecourse	BC	1.60.0	-	
factoextra	CRAN	1.0.7	-	
FactoMineR	CRAN	2.3	-	
dendextend	CRAN	1.13.4	-	
rafalib	CRAN	1.0.0	-	
RSEIS	CRAN	3.9-0	-	
ggsci	CRAN	2.9	-	
pheatmap	CRAN	1.0.12	-	
Rtsne	CRAN	0.15	-	
NbClust	CRAN	3.0	_	
	CIAIN	3.0		

mclust	CRAN	5.4.6	-	
clValid	CRAN	0.6-9	-	
pvclust	CRAN	2.2-0	-	
fpc	CRAN	2.2-7	-	
Hmisc	CRAN	4.4-1	-	
corrplot	CRAN	0.84	-	
psych	CRAN	2.0.7	-	
pwr	CRAN	1.3-0	-	
effectsize	CRAN	0.3.2	-	
	ctly used packages:	105		
	179			
	429			