microbiome R package and protocols

Leo Lahti, Jarkko Salojärvi[†]

September 6, 2012

The microbiome package includes standard R routines for preprocessing, analysis and visualization of microbiomics profiling data. The package is jointly developed by researchers from the Molecular Ecology group, Laboratory of Microbiology, Wageningen University, Netherlands, and Gut Group, Department of Veterinary Bioscience, University of Helsinki, Finland.

The current version is in beta. The features and documentation are unstable and under development. For further information, check the website: http://microbiome.github.com or contact the admins through microbiome-admin@googlegroups.com

For installation instructions and other documentation, see https://github.com/microbiome/microbiome/wiki/ To citation information, check in R: citation("microbiome")

1 Version information

> sessionInfo()

R version 2.15.1 (2012-06-22)

Platform: x86_64-pc-linux-gnu (64-bit)

locale:

[1] LC_CTYPE=en_US.UTF-8 LC_NUMERIC=C

[3] LC_TIME=en_US.UTF-8 LC_COLLATE=en_US.UTF-8
[5] LC_MONETARY=en_US.UTF-8 LC_MESSAGES=en_US.UTF-8

[7] LC_PAPER=C LC_NAME=C
[9] LC_ADDRESS=C LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C

attached base packages:

[1] tcltk parallel grid stats graphics grDevices utils

[8] datasets methods base

other attached packages:

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
[1]	vegan_2.0-4	permute_0.7-0	svDialogs_0.9-52
[4]	svMisc_0.9-65	svGUI_0.9-53	RPA_1.13.04
[7]	affydata_1.11.16	R2HTML_2.2	reshape_0.8.4
[10]	qvalue_1.30.0	preprocessCore_1.18.0	plyr_1.7.1

^{*}Wageningen University, Netherlands

 $^{^\}dagger \text{University}$ of Helsinki, Finland

[13] outliers_0.14	NMF_0.5.06	nlme_3.1-104
[16] mixOmics_4.0-2	pheatmap_0.7.2	lattice_0.20-10
[19] rgl_0.92.892	igraph0_0.5.5-2	limma_3.12.1
[22] gplots_2.11.0	MASS_7.3-21	KernSmooth_2.23-8
[25] caTools_1.13	$bitops_1.0-4.1$	gdata_2.11.0
[28] gtools_2.7.0	ggplot2_0.9.2	fields_6.6.3
[31] spam_0.29-2	DBI_0.2-5	brew_1.0-6
[34] affy_1.34.0	Biobase_2.16.0	BiocGenerics_0.2.0
[37] staticdocs_0.1		

loaded via a namespace (and not attached):

roaded via a namespace (and not attached).				
[1]	affyio_1.24.0	BiocInstaller_1.4.7	codetools_0.2-8	
[4]	colorspace_1.1-1	devtools_0.7.1	dichromat_1.2-4	
[7]	digest_0.5.2	evaluate_0.4.2	gtable_0.1.1	
[10]	highlight_0.3.2	httr_0.1.1	labeling_0.1	
[13]	markdown_0.5.2	memoise_0.1	munsell_0.3	
[16]	parser_0.0-16	proto_0.3-9.2	RColorBrewer_1.0-5	
[19]	Rcpp_0.9.13	RCurl_1.91-1	reshape2_1.2.1	
[22]	scales_0.2.2	stringr_0.6.1	testthat_0.7	
[25]	tools_2.15.1	whisker_0.1	zlibbioc_1.2.0	