

OmniLog

OmniLog PM respiration or growth experiments

export raw kinetic values as CSV

'opm'

import CSV into 'opm' package

aggregate (bootstrapped) curve parameters A, AUC, lambda, mu

discretize curve parameters

add metadata

manage metadata

import/export in YAML format

OPMS object: contains
- raw kinetic values
- metadata
- aggregated curve parameters
- discretized curve parameters

data import and management

data analysis and export

full data

full data

if needed

query and subset for:
- metadata entries
- specific plates/wells
- specific time points

graphical and statistical analysis

statistics: multcomp

radial plot

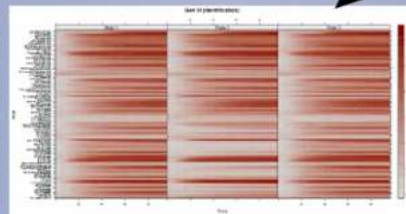
export discretized results in :

raw kinetic values

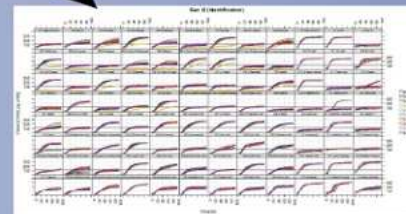
curve parameters

html or plain text in publication quality

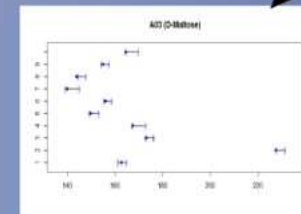
NEXUS, PHYLIP or Hennig86 format



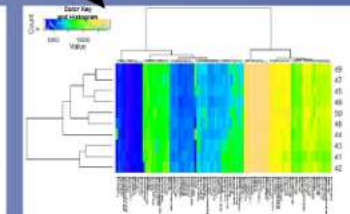
levelplot



xy plot



confidence-interval plot



heatmap

any other statistical or graphical analysis within R

manuscript for publication

third-party software

exploitation of phylogeny software such as RAxML, PAUP* or TNT

import/export into databases, exchange among labs



within R