

Updates since last version (January 2, 2014)
Revision date: March 22, 2014

IPMP 2013 has been compiled for 64 bit Apple Mac OS X 10.6 or above operating systems. IPMP 2013 is identical to the MS version, although there may be some slight differences in the GUI experience if you are using a PC. It is highly recommended that you download the Mac version of IPMP 2013 along with the tutorial file. The Mac version is about 242.0 MB. It is a self-contained standalone Mac app that will not interfere with any other programs. Depending on the speed of your internet connection, the download process may be slow. However, once copied to your desktop, IPMP 2013 runs very fast.

To use the Mac version, download PMPMainMac.app to your Apple desktop. The Mac version works better if you copy and paste the data from a spreadsheet (Excel) or a text editor. To copy from a spreadsheet or text editor -

1. Highlight the data
2. Click $\text{⌘}+\text{C}$ from your source file
3. Go to the data entry area of PMPMainMac (row 1 and column 1)
4. Click $\text{⌘}+\text{V}$ to paste data.
5. Follow instructions in the tutorial file to complete data analysis.

Updates since last version (October 28, 2013)
Revision date: January 2, 2014

A major change has been made to the software

In this update, a new option has been added to the (full) Baranyi model. This new option allows users to fix h_0 at a constant value using a globally optimized or averaged value. Please check the tutorial file for additional information (section 2.1 Baranyi model with fixed h_0).

A typo in Eq. 21 in the manual is corrected.

Updates since last version (October 28, 2013)
Revision date: October 28, 2013

A few minor changes are made to the software

1. The Mafart rendition of the Weibull model is added to the Weibull model Group.
2. The tutorial has been updated with minor grammatical and editorial changes.
3. The version number is added to the status bar area (bottom left)

Updates since last version (June 24, 2013)
Revision date: July 8, 2013

A few minor changes are made to the software

4. The Two- and Three-Phase Linear Growth Models have named to Buchanan Two-Phase Linear Growth Model and Buchanan Three-Phase Growth Model
5. Buchanan Two- and Three-Phase Linear Survival Models are added to the Survival Models Section.
6. A linear survival curve with tail is added to the linear survival model.
7. The tutorial has been updated.

Updates since last version (May 3, 2013)

Revision date: June 24, 2013

A few software glitches have been fixed and a few new features has been added:

1. Data entry
Data copied from Excel DO NOT need to be submitted TWICE now. The algorithm has been changed to detect the data. One submission is needed for all data types now.
2. Data conversion
There are a lot requests for data entry using log₁₀ CFU. Since all growth models (except the Gompertz model and the three-phase growth model) in the software are based on natural logarithms, an interface has been added to convert the data from log₁₀ to Ln (or ln). The users can enter the data in log₁₀ CFU, which will be automatically converted to Ln CFU if the users choose to make the conversion. This feature is added for convenience.
3. Data Clearance
A new interface has been added before the data are cleared from the worksheet. The users would need to confirm in the interface before the data are cleared from the memory. This is to prevent the data from being accidentally erased.
4. Two-Phase linear growth model
A two-phase linear growth model has been added to the Reduced Growth Models group. This model finds parameters (lag and growth rate) for growth curves with only lag and exponential phases using linear models.
5. Three-Phase linear growth model
A three-phase linear growth model has been added to the Full Growth Models group. This model divides a growth curve into three linear segments, corresponding to the lag, exponential, and stationary phases.
6. Cardinal model
An output error has been fixed.