Extracting bead level data using Bio-Plex Manager

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Contents

1 General

This acquisition software from BioRad uses a proprietary file format that cannot be read directly by `LumiR`. These files with a .rbx extension should be exported in XML in order to be read by `read.experiment`.

2 Saving the raw bead events

The first step is to make sure that the bead level information is saved by Bio-Plex.
In the 'Save As' dialog box, when saving protocols (extension .pbx) and results (.rbx), the compression mode must be disabled (default). Compression mode removes the raw bead event from the saved file in order to save space.

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3 Exporting to XML

For Bio-Plex data, `LumiR` requires a single .xml file per plate.

3.1 Export a single file

To export an existing file into XML:

- Open a .rbx file

- File Menu > Document Export

- Choose **'Bio-Plex XML'**

- Choose The destination File

- Export

3.2 Export as a routine

To export automatically at the end of a run:

- File Menu > Document Export Properties

- Choose **'Bio-Plex XML'**

- Check **'Use Folder'** in the Destination section and Choose the desired folder.

- OK

- Create or load a Protocol

- Advanced Settings Button

- Check **'Auto save after run'** and **'Auto XML export after run'**

- OK

4 References

Bio-Plex Manager 6.1 User Guide:
http://www.bio-rad.com/webroot/web/pdf/lsr/literature/10022815.pdf