

Maxpar Panel Designer v2.0

Introduction

Maxpar® Panel Designer is an interactive web-based application that simplifies and optimizes panel design. It allows cell suspension users to build a panel of metal-conjugated antibodies from the Fluidigm catalog and from custom conjugates. The tool calculates and provides visualization of predicted signal overlap for each panel and has an algorithm that optimizes the metal tag selections for each target to enhance panel performance. Panels can be saved and exported to share with collaborators and for future import into CyTOF® Software. Full details can be found in the Maxpar Panel Designer v2.0 User Guide (PN 100-9557).

About This Software

NOTE Maxpar Panel Designer is compatible with Windows® and Mac OS® systems. For best performance, use the latest version of Google Chrome™ (Windows) or Safari® (Mac OS). This software is not compatible with Microsoft Edge®.

System Requirements

| Component | Minimum Requirements |
|------------------|--|
| Operating system | <ul style="list-style-type: none">Windows 7, Windows 8, Windows 8.1, Windows 10, or laterMac OS X Yosemite 10.10 or later |
| Browser | <ul style="list-style-type: none">Google Chrome version 83 or newer (Windows)Safari version 13 or newer (Mac OS) |
| Processor | (Windows) An Intel® Pentium® 4 processor or later that is SSE2 capable |
| GPU | Onboard Intel graphics card Gen6 or better |

Features and Improvements

Algorithm Improvements

- Ability to apply and then choose new metals that are within the Helios™ detection range but are not yet supported by Fluidigm
- Ability to choose or combine reactivities (for example, Mouse, Human)
- Ability to switch between instrument types (for example, CyTOF 2 to Helios)

- Updated signal and tolerance values of 800-plus Maxpar antibodies

Updated Catalog

- The Maxpar® Direct™ Immune Profiling Assay™ is available to import as a panel.
- Maxpar MCP9 Antibody Labeling Kits (with cadmium isotopes) are available to select as metal tags.
- Maxpar human immuno-oncology antibodies are available individually to select and as 1 of 6 Maxpar Direct Expansion Panel kits to import.

Updated User Interface

- Autosave no longer obscures the Optimize, Export, Add, and Panel buttons when the browser window width is reduced.
- Compatibility with Mac OS X Yosemite 10.10 or later
- The last edit is time-stamped to exported panel CSV file.
- Ability to add and delete targets in My Catalogs
- My Panel view enables panels to be sorted by date created or modified and ordered alphabetical by panel name.
- A heat map is provided in the Panel Table and Panel Wheel views to indicate the amount of signal overlap.
- Colors are assigned to each Maxpar suspension panel kit for easier identification in the panel table.

Recommendations

- If you experience issues logging on to Panel Designer, clear the browser cache and try again.
- For easier viewing, a monitor of at least 22-inch width is recommended when designing large panels.
- Contact your local Field Applications Specialist for further assistance with Panel Designer.

For technical support visit techsupport.fluidigm.com.

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