

Minimum Information About a Flow Cytometry Experiment (MIFlowCyt) Checklist (Numbered in accordance with MIFlowCyt 1.0 document)

1. Experiment Overview

- 1.1. Purpose
- 1.2. Keywords
- 1.3. Experiment Variables
- 1.4. Organization (name and address)
- 1.5. Primary Contact (name and email address)
- 1.6. Date (or time period)
- 1.7. Conclusions (if applicable)
- 1.8. Quality Control Measures

2. Flow Sample and Specimen Details

- 2.1. Sample/Specimen Material Description (include description, type, source, source treatment, taxonomy, age, gender, phenotype, genotype as applicable for biological samples; description and location for environmental samples)
- 2.3. Sample Treatment(s) Description
- 2.4. Fluorescence Reagent(s) Description (include characteristic(s) being measured, analytes, analyte detectors, analyte reporters, clone names/numbers, manufacturer, catalogue numbers as applicable)

3. Instrument Details

- 3.1. Instrument Manufacturer
- 3.2. Instrument Model
- 3.3. Instrument Configuration and Settings (provide acquisition settings including detector voltages and describe all custom alterations of the instrument if applicable; include installation dates of optical filters)

4. Data Analysis Details (if data analysis has been performed)

- 4.1. List-mode Data File (specify location of original list-mode file, for example supplementary material, URL, website)
- 4.2. Compensation Details (describe how multicolor compensation was performed by including antibodies, cells, or beads used)
- 4.3. Data Transformation Details (purpose and description if any transformation of the raw measurement has been performed, including various scales for visualization and gating purposes)
- 4.4. Gating (Data Filtering) Details (include description of all gates, percentage of events inside, and either mathematical descriptions of each gate boundary or appropriate gate images; mathematical description of gate boundaries can be provided in using Gating-ML or an appropriate project or workspace file); description of the algorithm by which gates were created (for example, subjective, based on FMO (how?), same gate for all analyses, etc.)

5. Data Presentation Requirements

- 5.1. Axes legends (antibody and dye; linear- or logarithmic-scaled axes)
- 5.2. Graphical example for full gating strategy
- 5.3. Positive/negative control or FMO

Published online in Wiley Online Library
(wileyonlinelibrary.com)

DOI: 10.1002/cyto.a.20941

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