

Making sense of flow cytometry data in R

Felix Marsh-Wakefield

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Latest updates

- Batch alignment in Spectre
 - <https://immunedynamics.io/spectre/cytonorm/>
 - Development branch has a few options
- SuperCellCyto for subsampling data
 - <https://phipsonlab.github.io/SuperCellCyto/>
 - Retains rare cell populations
 - Includes workflows with batch alignment
 - Putri et al., 2024 (Genome Biology)
- Spectre Rshiny app (thanks to Thomas O'Neil)
 - <https://drthomasoneil.github.io/CVR-site/apps.html>

Today's workshop!

- <https://shorturl.at/Ppqcn>



Flow data preparation

- Compensation
- QC gating (live single cells)
- *Data transformation (arcsinh, biexponential, etc.)
- Export as CSV
 - “Channel values” in FlowJo
- Can use ‘CytoExploreR’
 - <https://dillonhammill.github.io/CytoExploreR/>

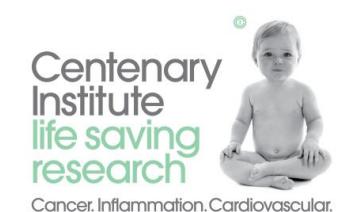
<https://shorturl.at/Ppqcn>



Special thanks to...

- Thomas Ashhurst
- Givanna Putri
- ACS

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