

# NEWSLETTER

## Core Facility Cytometry

### Contents of this issue:

- Personnel update
- Device update
- FCS Express Software
- Request device training

## Personnel update

From March 2024, Dr. Anna-Maria Lipp has taken over the head of the Core Facility Cytometry and is looking forward to contributing her many years of experience to the Core Facility. Together with Ms. Edeltraud Raml, she will be the contact person for all cytometric matters.

Please feel free to contact us at the following email address: [ZMF-CF-Zytometrie@jku.at](mailto:ZMF-CF-Zytometrie@jku.at)

## Choose the right device for your experiment

Name	Laser	Detection channel	Format	Benefits	Drawbacks
<b>CytoFLEX</b>	405nm 488nm 638nm	13	5ml Tubes 1.5ml Tubes 96-well Plate	User-friendly software	Limited options for multicolor panel
<b>DxFLEX</b>	405nm 488nm 638nm	13	32 Tube Standard Carussell	User-friendly software	Limited options for multicolor panel
<b>Guava® EasyCyte™</b>	405nm 488nm 642nm	11	1.5ml Tubes 0.5ml Tubes 96-well Plate	Use without extensive technical background with validated modules	User-unfriendly InCyte software
<b>Cytek™ Northern Lights</b>	405nm 488nm 640nm	38	5ml Tubes	Measurement of the complete emission spectrum from 420nm to 829nm, measurement of small particles, autofluorescence correction	Only single-tube measurements possible
<b>S3e™ Benchtop Sorter</b>	405nm 488nm 561nm	4	5ml Tubes	Simple cell sorting <b>Single cell sorting directly into 8-well PCR strips</b>	Only 2-way sorting and 100µm nozzle available
<b>FACS Aria™ Fusion</b>	355nm 405nm 488nm 561nm 640nm	18	5ml Tubes	Adaptable to different cell types (4 nozzle sizes) 4-way sorting <b>Index sorting in multiwell formats</b>	Complex handling

All CF Cytometry devices can also be found on the webpage at: <https://www.jku.at/en/faculty-of-medicine/research/center-for-medical-research/core-facilities/cytometry/>

## Request device training

The analyzers can be used independently after training by the Core Facility. Training is requested from the Core Facility by the **working group leaders** with brief information on:

- ⇒ **Previous experience in cytometry**
- ⇒ **Project description to select the best device for your experiments**
- Working group leaders have the possibility to propose employees of the working group with fixed or multi-year employment contracts for participation in the training
- Working group leaders are themselves responsible for training additional people from the working group

## FCS Express

**With the FCS Express™ software, you can quickly and easily convert your raw data into easy-to-understand, beautifully formatted and presentation-ready results.**

- Highlights:
- Export to Graphpad Prism
  - Integrated spreadsheets
  - Spectral analysis
  - Image cytometry
  - Compensation
  - Batch Processing
  - Cell cycle analysis
  - Proliferation analysis,...



**The result of your experiments largely depends on the quality of the input!**

The Core Facility will be happy to advise you on optimal sample preparation and experiment planning and provide support in the subsequent analysis and interpretation of the data.

The software is available for you at the analysis computer in room LAB 327!