ACHUCARRO incorporated in January 2014 this Fluorescence-activated Cell Sorter and Analyser (FACS) from BD Biosciences, in particular their FACSJazz (2B/4YG).

This equipment is property of Achucarro Basque Centre for Neuroscience Foundation. We purchased it with the financial support of the Basque Government, so it is open to the Basque Science, Technology and Innovation community, according to this policy of use.

This policy defines the organisation for the correct use and maintenance of this equipment. This document is open to improvements and suggestion, fruit of the use and experience in the common and collaborative use of this equipment. The Facility Technician takes suggestion and request about this policy.

Main technical specifications

Optics
- 488 nm laser and 561 nm laser independently aligned.
- Objectives: 20X, 0.6NA microscope objective.
- Forward Scatter Detector and Filters: 75- and 50-mm lenses and PMT tube with a 488/10 BP filter and OD3 neutral density filter.
- Side Scatter Detector and Filter: 90° collection lens and 488/10BP filter PMT.
- Fluorescence Detectors and Filters: 90° collection lens and PMTs (2B/4YG).

Fluidics
- Sheath pressure fixed at 27 psi (1.8 bar) with a consumption of 0.5 L/h.
- Autoclavable 7L sheath and waste containers, equipped with pressure and vacuum readout.
- 100 μm nozzle with replaceable fluidics path and bubble detector.

Performance
- Two way sorting: 5 and 15 ml tubes.
- Plates and slides: 6, 24, 96 and 384 well plates and user-defined collection devices.
- Temperature control by circulating water bath.
- Drop-delay confirmation with BD FACS Accudrop technology.

Signal processing
- Eight data acquisition channels.
- 16 bit analog-to-digital conversion.
- Parallel data streams with channel ID and integrity check.
- Less than 1 correlation error per 10⁶ events.
- Maximum throughput rate: 200000 events/second.

FACS reference personnel
Currently, Laura Escobar is the person in charge of the technical issues of the FACS. She is the link with BD, and has a deep knowledge and understanding of the whole capabilities of the FACS.

In case of any doubt while using it, contact her.

http://www.achucarro.org/people/laura-escobar-castanondo
Basic working conditions and procedures
The checklist with all the mandatory steps to start, run and stop the FACS is available at the Facility Room.

Nevertheless, the Facility Technician will, and in many cases, MUST support and assist the use of the equipment; you can contact her for any doubt, question, etc.

Sorting Days/Times:
The equipment requires being set and tuned at least, 1 hour before starting the sorting to align lasers and Accudrop, so the daily timetable for this equipment is from 10:00 to 18:00 (Monday to Friday).

Depending on the duration of the assay (sorting or analysis by flow cytometry) it will be possible to make one or more experiments per day (the Facility Technician will adjust the calendar in order to get the most efficient timetable).

If the experiment ends at 18.00 or later, we will charge extra hours as the equipment also requires a process and protocols for shutting it down.

Reservations
The Facility Technician manages the requests of use of this equipment.

Potential users should ask for access to the shared Calendar for this equipment to check availability:
https://www.google.com/calendar/embed?src=t2pbb1154e61vl19r0j7beqj0o%40group.calendar.google.com

Priorities:
- According to affiliation:
  o Achucarro and UPV/EHU users have the maximum priority on the use of this equipment; after them,
  o Other non-for-profit research or technological centres within the Basque Science Community (or abroad); and finally,
  o Companies and private entities.
  o In exceptional cases, if a user of this third group has a special-time related-need and according to their pricing policy, they could be given priority over other users.

Penalties:
- Users that reserve a time slot that then do not use the FACS, and haven’t released the reservations could suffer a penalty on their next reservation(s).

In order to keep a good atmosphere in the use of the equipment, and in the whole centre, we kindly ask all the users to observe strictly the schedules and times of use, planning adequately the experiments, being tidy and clean with the equipment, furniture and the room.
User-levels

The operation of the equipment is limited to the Facility Technician. She will have the equipment prepared by the moment the assay starts, and will clean the system up, once this assay is finished.

Acknowledgement
Users should mention the use of this equipment in their publications and research outcomes as:

Achucarro Basque Center for Neuroscience – Cell Analytics Facility (Leioa, Spain)
Annex 1: Fees

These prices have been set according to the cost of run and maintenance of the equipment, and taking into account the differences that each resource/technique consumes.

**FEES 2019 (EUROS PER HOUR)**

<table>
<thead>
<tr>
<th>Service</th>
<th>Euros per hour of use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achucarro users</td>
<td>60</td>
</tr>
<tr>
<td>Research personnel of the UPV/EHU and other Non for profit Research organisations and Technological Centres on the Basque Science and Technology Network</td>
<td>65</td>
</tr>
<tr>
<td>Other External organisations and Private Entities, Companies</td>
<td>65</td>
</tr>
<tr>
<td>Use for sorting software</td>
<td>10</td>
</tr>
</tbody>
</table>

These prices do not include the taxes that would apply in each case.

Prices are valid until December 31 2019.