



Flow cytometry facility and reservation

1.1 Introduction

The cell sorter is present at the laboratory for Hematology, which is part of the Department of Laboratory Medicine. It is possible to use this sort facility under supervision of an operator. Conditions and possibilities of the cell sorters are described below.

1.2 General information

1.2.1 Aria

The Aria cell sorter is manufactured for high speed and low speed (autoclone 6-384 well plates) cell sorting and is used to purify large amounts of cells up to 99% purity. Furthermore it is suitable for the detection of 18 colors. The size of the cells determine the nozzle and the speed. Small cells up to 15um are sorted with the 70 um nozzle. Bigger cells with the 85um nozzle. The Aria detects with the 70 um nozzle 50×10^6 in an hour, ($85\text{um } 40 \times 10^6$) so you can calculate the time for your reservation. The Aria is equipped with a 365nm UV laser , 488nm, 561nm, 405nm violet laser, and a 640nm laser.

1.2.2 Cell sorting

When you make a reservation we need the following information:

1. Which fluorochromes are you going to use and which combinations.
2. The total amount of cells and the number of samples.
3. The species : human, mouse, GMO. (Lentiviral GMO sort is possible under restriction)
4. If the sort has to be sterile.

1.2.3 What to bring

1. Cell samples in (5ml) Facs tubes.
2. 1.5ml, 5 ml, 15 ml, 50 ml Greiner tubes with medium (1/6 of the tube) to collect the sorted cells.

1.2.4 Requist

1. Cell sample concentrations must be around 50×10^6 /ml.
2. Clots must be removed (filtered) from samples before handed over to the operator.

1.2.5 FCS files

In dot plots the measurement of the samples and antibody expression are visualized. The amount of sorted cells is noted down on the out print. The list mode data files (FCS-files) are saved on the hard disk of the cell sorter. The responsibility of administrating these files is ascribed to the user. The operator can copy these files when asked, on to a backup drive or disk.

Reservations

For each cell sorter an agenda and email box is established on the exchange server. The facility is named *Vz apparatuur Laboratoriumgeneeskunde LH flowcytometer Aria*. You can use the facilities in a Windows environment (outlook) and Mac environment (Outlook in OS9 or Entourage in OSX). [For working outside werkplek 2.0 use webmail.](#)

You can make a reservation request using your own agenda and invite the cell sorter.

Briefly: Select in outlook *calendar (agenda)*, select *new (nieuw)*, select guide card *invite attendees (deelnemers uitnodigen)*, select *to (aan)*. Select *Vz apparatuur Laboratoriumgeneeskunde LH flowcytometer Aria (VZ00329)* add this to *required (vereist)*. You can make this appointment. Select *scheduling (planning)*, bars indicate when the cell sorter is busy. Select the time you need to sort your samples.

Select *appointment (afspraak)*, mention your name and phone number under *subject (onderwerp)*. Select *send (verzenden)* to send your invitation.



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Best. Geen Eng. Edite. Help. Agenda's en rapporten Vandaag Archiefvensters

Ongewenste e-mail rapportoren Dag Week Maand Wekelijkse weergave Volledige week weergeven

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1 2 3 4 5 6 1 2 3 4 5 6
7 8 9 10 11 12 13 7 8 9 10 11 12 13
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21 22 23 24 25 26 27 15 16 17 18 19 20 21
28 29 30 31 26 27 28 29 30 31

7 - 11 maart 2016

Agenda 7 maandag 8 dinsdag 9 woensdag 10 donderdag 11 vrijdag

Vergadering Invullen Tekst opmaken Adresboek Naamlijst - Vergadering Uitnodigen annuleren Dossiers - Agenda Planningassistent Vergaderplanner Antwoorden - Deelnemers Heenreis: 15 minuten Tegenstuurrapport Toepassen Categorieën Lage urgente Taaklijst

Voor deze vergadering zijn geen uitnodigingen verzonden. Deze dienen later nog wel te worden verstuurd.

Aan: Onderwerp: Locatie:

Verzenden

Begintijd: wo 9-3-2016 17:00 Dousit hele dag Eindtijd: wo 9-3-2016 17:30

Delen en resources selecteren: Algemene agenda

Zoeken: Alleen naam Meer kolommen Adresboek Algemene adreslijst Zoekriteria

Naam	Functie	Telefoon op werk	Locatie	E-mailadres
VU apparatuur Laboratoriumgeneeskunde (14) Afbeelding (Aria 4-475-MST9.04.146)		1475.04.146		vu00317@adendum.nl
VU apparatuur Laboratoriumgeneeskunde (14) Afbeelding (Aria 4-475-MST9.04.146)		1475.04.146		vu00317@adendum.nl
VU apparatuur Radiologie en Nucleaire Geneeskunde				
VU apparatuur Radiologie en Nucleaire Geneeskunde (14) Afbeelding (Aria 4-475-MST9.04.146)		1475.04.146		vu00317@adendum.nl
VU apparatuur Radiologie en Nucleaire Geneeskunde MIO Meppel				
VU apparatuur Radiologie en Nucleaire Geneeskunde MIO Meppel				
VU apparatuur Tandheelkunde Esser-van model scanner	40 pers.	14005	TMHL 1.27	vu00317@adendum.nl
VU apparatuur Tandheelkunde Esser-van model scanner	20 pers.	14000	MOSH 06.030	vu00317@adendum.nl
VU apparatuur Fysiotherapie en Ergotherapie				
VU apparatuur Fysiotherapie en Ergotherapie				
VU beeld- en audioverwerking en -verbouwing				
VU beeld- en audioverwerking en -verbouwing				
VU communicatie Neurologie Parfinselton (9-912-MST2.01.136)		14701	M132.01.136	vu00229@adendum.nl

Vervolg -> Optonen -> Resources ->

OK Annuleren

In gedeelde map: VU apparatuur Laboratoriumgeneeskunde IAH flowmeter Aria (475-MST9.04.146)

The screenshot shows an Outlook window with the following details:

- Meeting Details:** sort 70 um nozzle - Vergadering
- Participants:** Vz apparatuur Laboratoriumgeneeskunde LH flowcytometer Aria (i-475-M079.04.148)
- Location:** Vz apparatuur Laboratoriumgeneeskunde LH flowcytometer Aria (i-475-M079.04.148)
- Start Time:** do 10-3-2016 10:30
- End Time:** do 10-3-2016 11:00
- Duration:** Duurt hele dag

Other visible elements include the ribbon menu, a toolbar with icons for agenda, planning assistant, calendar, and address book, and a status bar at the bottom.

Your request is sent to the operator. The operator answers your email and your request will be accepted (or refused) and confirmed in your own and cell sorts agenda.

1.3

For questions you can contact the operators at (024 36)15232 .