

Quick user-guide to the IncuCyte



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### General rules for operating the IncuCyte

- **Training is mandatory** for all users, please ask if you are not yet comfortable on the system (MIC or Halala). Once trained, you can get access to the Zoom software and connect remotely from your own pc.
- Every user will have his/her own **user account** (last name\_first name initial). Log in using this account and remember to log out afterwards.
- The naming of files has to be in the following format: yyyymmdd\_scientist name\_experiment name (example: 20170209\_Spriet\_E\_experiment name)
- As a general protocol, the IncuCyte will be set up to image every 2 hours with the 10x objective with sample holders for 6 plates.
- If you plan another interval, objective or sample holder than the general protocol, you need to talk to MIC personnel in advance and make a note about **special instructions** in the booking system. The objective can only be removed by MIC or Halala!
- **Booking** in advance is compulsory. Make sure you insert samples in the correct position.
- Make sure there are no error messages displayed on the control box after you have opened the incubator.





- You need special training for using the **wound-maker** as this involves special cell plates and cleaning procedure.
- It is mandatory to use **shoe protection** (blue plastic covers) and **gloves** when handling the IncuCyte. If you are working at the bench, then make sure you are wearing a **yellow lab coat** and follow general cell culture rules of trash and cleanliness.

The Incucyte ZOOM is unfortunately only compatible with windows (will work on mac if you have the windows interphase). The software is available on the Biomic server «free software» or by showing up directly in the MIC office with a usb-stick. Place the software folder directly onto «program files» and create a shortcut of the IncuCyte.exe file on your desktop. First time you connect to the instrument, put it the IP address: 129.177.231.74

Essen.IncuCyte.pdb	27.11.2016 02:20	PDB File	9 686 KB
Essen.IncuCyte.Win.dll	27.11.2016 02:20	Application extension	6 275 KB
Essen.IncuCyte.Win.pdb	27.11.2016 02:20	PDB File	5 172 KB
Essen.pdb	27.11.2016 02:20	PDB File	1 368 KB
Essen.Win.dll	27.11.2016 02:20	Application extension	517 KB
Essen.Win.pdb	27.11.2016 02:20	PDB File	816 KB
📆 IncuCyte ZOOM User Manual.pdf	18.11.2016 18:22	Adobe Acrobat Doc	3 848 KB
Z IncuCyte.exe	27.11.2016 02:20	Application	42 KB
IncuCyte.exe.config	26.01.2015 20:46	XML Configuration File	4 KB
IncuCyte.pdb	27.11.2016 02:20	PDB File	18 KB
IncuCyteArchiveJ	11.2016 02:20	Application	99 KB
IncuCyteArchive. Date modified: 26.01.2015 2	0:46 02.2014 17:03	XML Configuration File	1 KB
IncuCyteArchiveJobProcessor.pdb	27.11.2016 02:20	PDB File	18 KB
IncuCytePlateMapEditor.exe	27.11.2016 02:20	Application	30 KB
IncuCytePlateMapEditor.exe.config	27.02.2014 17:03	XML Configuration File	1 KB
	27.11.2016.02.20		1.6 1/0



The IncuCyte ZOOM software has also been installed on the workstations in the MIC PC room on the 6th floor.

### Setting up a timelapse





#### Setting up a timelapse....continues

Click on «add vessel» and find the correct plate. Different plates have different well location in xy, so find the correct one. Not all plates are compatible.

Sorting for manufacturer or wells is very useful.

nd:		Clear Search Tip(i)								
Manufacturer Ves Wells Area		Area	Catalog #s	Vessel Name	Tray	Scan Types				
Aurora	Plate	96	N/A	92451, 92461, 92651, 92661, 92751, 92761	96-well Aurora IQ	Micropl	Standard			
Aurora	Plate	384	N/A	31221, 31241, 31421, 31441, 31521, 31541, 31621, 31641, 31821, 31841, 31921, 31941, 32021, 32041, 32221, 32241, 32321, 32341	384-well Aurora IQ-EB	Micropl	Standard			
Aurora	Plate	384	N/A	32451, 32651, 32751	384-well Aurora IQ-EB Ultra Low Base	Micropl	Standard			
BD (Discontinued)	Plate	6	N/A	Discontinued: see "Corning (Formerly BD)" vessel	6-well BD Falcon	Micropl	Standard			
BD (Discontinued)	Plate	12	N/A	Discontinued: see "Corning (Formerly BD)" vessel	12-well BD Falcon	Micropl	Standard			
BD (Discontinued)	Plate	24	N/A	Discontinued: see "Corning (Formerly BD)" vessel	24-well BD Falcon	Micropl	Standard			
BD (Discontinued)	Plate	48	N/A	Discontinued: see "Corning (Formerly BD)" vessel	48-well BD Falcon	Micropl	Standard			
BD (Discontinued)	Plate	96	N/A	Discontinued: see "Corning (Formerly BD)" vessel	96-well BD Falcon Blk/Clr Imaging	Micropl	Standard			
BD (Discontinued)	Plate	96	N/A	Discontinued: see "Corning (Formerly BD)" vessel	96-well BD Falcon Optilux	Micropl	Standard			
BD (Discontinued)	Plate	96	N/A	Discontinued: see "Corning (Formerly BD)" vessel	96-well BD Falcon (All Clr)	Micropl	Standard			
BD (Discontinued)	Plate	384	N/A	Discontinued: see "Corning (Formerly BD)" vessel	384-well BD Falcon B (Blk/Wht)	Micropl	Standard			
BD (Discontinued)	Plate	384	N/A	Discontinued: see "Corning (Formerly BD)" vessel	384-well BD Falcon A (Blk/Wht)	Micropl	Standard			
BD (Discontinued)	Plate	384	N/A	Discontinued: see "Corning (Formerly BD)" vessel	384-well BD Falcon A (All Clr)	Micropl	Standard			
BD (Discontinued)	Plate	384	N/A	Discontinued: see "Corning (Formerly BD)" vessel	384-well BD Falcon B (All Cir)	Micropl	Standard			



Copy Grid

Supported (i)

Cancel

OK

#### Setting up a timelapse



# Creating a plate map

Scan Set	up Properties										
Labe											
Cell											
Passag	1 🕂 🗕 Plate Map 🔹										
Note		The plate map	can be des	igned before, during or after an experiment and is							
		your custom-c	our custom-design map helping you in having the overview of the								
		experiment. Y	ou can seleo	t compounds, cells types and growth conditions.							

Z Plate Map Editor - IncuCyte Plate Map													
🗅 📾 🚰 🔊 - (* - 🖾 🚄 🗛 🚛 🛄				1			1	1	1	1		1	
<ul> <li>Click and drag to select areas.</li> </ul>	All	1	2	3	4	5	6	7	8	9	10	11	12
Click to toggle individual well selection.     Use the tabs below to populate the selected     The selection of the selection     Regions     Compounds     Cells     Growth Conditions	A			DMS0	0.2%	DMSO ER10 (1)	0.2% 20K cells /						
Compounds used in this plate:	в	DMSO HCC827w	0.2% rt (1) 20K	ER3 (1) 20P	C cens / wen	w	ell	DMSO 0.2% SUM149	BGB324 1.6 µM SUM149 (1) 20K	BGB324 0.8 µM SUM149	Warfarin 2 µM SUM149	Warfarin 1 µM SUM149	DMSO 0.2% SUM149 (1) 20K
♣ New ZEdit X Delete	с	cells ,	/ well	Erlotini	ib 1 μM	Erlotini ER10 (1) :	ib 1 µM 20K cells /	cells / well EtOH	cells / well EtOH	cells / well EtOH	cells / well EtOH	cells / well EtOH	cells / well EtOH
Select all wells that contain this Add Compound to	D			ER3 (1) 20P	C cens / wen	w	ell						
Plate Map Notes	E			BGB324	4 0.8 μM	BGB324	4 0.8 μM 20K cells /						
	F	BGB324 HCC827w	0.8 µM /t (1) 20K	ER3 (1) 20H	< cells / well	W	ell	DMSO 0.2% SUM149	BGB324 1.6 µМ SUM149	BGB324 0.8 µM SUM149	Warfarin 2 µM SUM149	Warfarin 1 µM SUM149	DMSO 0.2% SUM149
	G	cells ,	/ well	Erlotini BGB324	ib 1 µМ 4 0 8 иМ	Erlotini BGB324	ib 1 μM 4 0.8 μM	(1) 20K cells / well VitK	(1) 20K cells / well VitK	(1) 20K cells / well VitK	(1) 20K cells / well VitK	(1) 20K cells / well VitK	(1) 20K cells / well VitK
<b></b>	н			ER3 (1) 20H	C cells / well	ER10 (1) : W	20K cells / ell						
Export As Image												ок	Cancel

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#### Defining the scan pattern

Pattern Editing

🗙 Delete

#### Scan Pattern Manager for 129.177.231.74

Objective	
10x 💌	Current
Tray:	
Microplates	•
Vessel:	
96-well Essen ImageLock	•
Scan Type:	
Scratch Wound 🔹	🗌 Wide Mocii
Available Patterns:	
Halala 20170207	
Scratch	
scratch 1	
scratch 2	
Thomas	
wounding_AM_BGB	
-	
1	

Rename

🕂 New

# 2 3 4 5 6 7 8 9 101112

You can either select an available pattern from the drop down menu «scan type» or create a new one (with your name on it) and select the specific wells you need imaged. Make sure you are not scanning undesirable wells to save time. In this scan type «scratch wound» you can also select for 1-2 images per well.

Click save and close.



\* Image size and location based on Scan Type 'Scratch Wound'.

•

Edit the pattern by clicking on its picture. Hold down the Alt Key to remove wells. Click and drag to select and deselect groups of wells.

Images per well: 2

Clear Pattern

- Save

Close

Supported

X

### Setting up a timelapse

#### Retrieve your scan pattern from the scan list IncuCyte ZOOM \_ 🗆 🗙 Next Scan: 11 minutes (10:30) 129.177.231.74 (MIC) File View Preferences Help Task List View Scans 00 がつ Search Drawer Setup Scan Setup Properties Schedule Scans + Add Vessel Channel Selection Scan Mod F Archives Sca Restore Scratch Wound **v** (i) Phase ide Moc 🛈 Administer 2 Remove Green Scan scratch 1 **v** (i) Remove Acquisition Time: (+) (ms) Copy Vessel Spectral Unmixing Red 0,00 🗧 % removed -Hour Repeating Acquisition Time: (+) (ms) Paste Vessel 0,00 🗧 % removed Tray Labels Analysis Job Setup FRONT OF -Job Type None Processing -Searc Next, schedule the scan and make sure you Definition: Name: have time to launch it and insert your vessel Job Version: Notes: before the next scan! B **C Device Status** D 10:18 on Demand (unavailable) Next Scan: 10:30 E 回 F 🗩 Set By: MIC Set At: 22.02.2017 12:26 GO Status: Ready To Scan H00000000000 Objective: Nikon 10x Filter: Dual Color Model 4459 Free Space (% free): Scan Disk - 8 TB (98%) Database - 10 GB (>99%) Vessel Scheduling Temperature: 37,3 °C Reloa 0 📝 Edit Scan Patterns Apply

Setting up a timelapse – vessel scheduling



This message indicates that you need to add cooling time into the schedule and in order not to shift everyones scanning, **put your scan last and add the cooling time right before**.

Vessel Schedu	ling						_ 🗆
:00			0:35				1:10
AnjaMa	ii_220217_HMLER 25m	cool 10m	Anj	aMai_220217_MCF1 25m	10a_PP	cool 10m	12m
Activity	Label	Location		Scan duration h:mm	Cooling minutes	Next Scan Start h:mm	
Scanning	AnjaMai_220217_HMLER	Front Tray, Let	ft Position	0:25			
Cooling					10	0:35	
Scanning	AnjaMai_220217_MCF10a_f	PP Front Tray, Rig	ght Position	0:25			
Cooling					10	1:10	
Scanning	20170223_Spriet_testwound	Rear Tray, Let	ft Position	0:12			
Move Before	Move After A	Add Cooling	Remove Co	ooling			

#### Setting up a timelapse – vessel scheduling



Removing plates: click on your plate and select «remove» and click on APPLY.

Open the drawer in between scans and remove your plate.

### Scan on demand

You can run a one-time scan over your plan through the "scan on demand".

Z IncuCyte ZOOM		
File View Preferences Help	_	
129.177.231.74 (dyrstad_s)	Statu	us: Scanning (48%)
Task List		
View Scans	00	02 04 06 08 10 12 14 16 18 20 22 (
Search		Tray Type: Microplates
Schedule Scans		Tray Position: Front Carefully select the correct position and
Archives		vessel type. Retrieve the scan pattern and
Administer		Vessel type: 96-well Nunc
	beating	Scan Pattern: Sissel
	ur Rep	Unique ID: 2017y6m26d12h39 Load correct channels are selected and press apply
	24-Ho	
		The IncuCyte will start a one-time scan
		Acquisition Time: 400 (ms)
*		Acquisition Time: 800 🔄 (ms) repeating scans.
		Label: test Sissel
		Cell Type:
	-	Passage: 1 Plate Map -
Device Status	eman	Notes: 1 2 3 4 5 6 7 8 9 10 11 12
Next Scan: 13:40	Que	
Set By: dyrstad_s Set At: 26/06/2017 12:31	Scan	
Status: Scanning (48%)		
Objective: Nikon 10x Filter: Dual Color Model 4459		
Free Space (% free):		
Database - 9.8 GB (98%)		
Temperature: 37.6 °C		Z Edit Scan Patterns Apply Scheduling Apply

								Insid	de «archives»	you will	see a	all th	ie da	ta
77 u	ncuCyte ZOOM							acqu	uired on the In	cuCyte.	Sear	ch f	or yo	ur
120	177.221.74 (ossenbio)		Ctot	tue: Cen	pping (49/-)				· ·					
129.	177.231.74 (essenblo)		Sta	lus. Sta	nning (470)			sam	pie using your	surnam	e un	der ·	«labe	:l≫.
File	View Preferences	Hel	р					<b>D</b>	bla altalata an					
	Task List		Cre	ate New	Archive View Arc	hives In F	Progress View Archives Attach	Dou	ріе-сіїск то оре	en the In	nage	set.		
	View Scans		Fin	d:			✓ Clear	Sear	rch Tip(i)					
	Search			Select	Start	User	Label		Cell Type	Scan Type	Color1	Color2	Phase	Objective
$\odot$	Schedule Scans		ę											
	Archives		H		08.06.2017 13:00	RovCh.	20170608 Controls with&without	tvirus u	187	Standard	1	1	1	10x
G	Archives		H		06.06.2017 17:00	dmello s	20170606 dmello s spheroid trial	al N	lumber	Spheroid				10x
۶	Administer				02.06.2017 17:00	nilsen m	pharonepharone inter			Standard				10x
					02.06.2017 17:00	nilsen m				Standard		$\checkmark$		10x
			H		02.06.2017 17:00	nilsen m				Standard		1		10x
			H		02.06.2017 17:00	nilsen m				Standard		1		10x
			H		02.06.2017 13:00	RovCh	170602 controls Romi		187	Standard	1	1		10x
			H		23.05.2017.15:00	H-Aks	170523 H-Aksnes Wound	0	TRI NAA80 KO1 NAA80 K	Scratch Wound				10x
			H		21 05 2017 19:00	nilsen m	NHA wt dsred		IHA	Standard		1		10x
					19.05.2017.15:00	lie m	20170519 Lie M Scratch wound a	assav H	CC827wt ER3 ER10 SUM	Scratch Wound				10x
					18 05 2017 15:39	nilsen m	KD	accayini i	IHA	Standard		1		10x
		•	H		18 05 2017 15:39	nilsen m	wt	N	IHA	Standard		1		10x
					16.05.2017 15:39	H-Aks	Henriette A Prolif Pos 2	v	VT. K01. K02	Standard				10x
			H		16 05 2017 15:00	H-Aks	Henriette A Chemotaxis2 20min Pr	Pos 1 V	VT K01 K02	Chemotaxis (T				10x
					15.05.2017 11:00	zhang x	H1		11	Standard				10x
					15.05.2017 11:00	zhang x			187	Standard				10x
					10.05.2017 19:00	klink b	20170510 klink b FRBA P3-greer	en F	RBA with P3 Xeno or P3 NBM	Standard	$\checkmark$			10x
	Device Status				10.05.2017 18:48	klink b	grou			Standard	$\checkmark$			10x
	15:02				10.05.2017 18:44	klink b				Standard	$\checkmark$			10x
lex	t Scan: 17:00				10.05.2017 18:39	klink b				Standard				10x
Set	By: H-Aksnes				10.05.2017 18:13	klink b				Standard				10x
et .	At: 08.06.2017 14:56				10.05.2017 18:02	klink b				Standard				10x
stat	us: Scanning (4%)				09.05.2017 19:00	klink b	20170509 klink b co-culture-FRB	BA-NB P	23. BG10	Standard				10x
JDJ	ective: Nikon 10x				09.05.2017 17:17	klink b			-,	Standard				10x
-iite Fre-	Space (04 free):				09.05.2017 17:13	klink b	Test NBM			Standard				10x
rree Dis	space (% free):				09.05.2017 15:00	Hoang T	Tuven scan090517	H	11-DL2	Standard	<b>V</b>			10x
Da	tabase - 9,8 GB (98%)				00 05 2017 12:00	klink h	20170500 kink h EPPA-with-P2V	Vonoa		Ctandard				10v
Tem	perature: 37,1 °C		(i)	🕏 Refr	esh Select All	Unse	elect Group By	User	Copy			-	Create	View Ve

Analysing scratch wound assay













Once you launch the analysis, the controller will launch the job in between scanning jobs. You can at any time see the time remaining by pressing «status» at the bottom.

	MaiAnja										
ile <u>U</u> tilities View 29.177.231.74 (MIC)											
E February								Ar	alvsis 1ob U	tilities	
				9 10 11 12 9 8 8 8 9 8 8 8 9 8 8 8	ell A8 Navigation — mage 2 of 2 2 🛨			Ci Ni La	eate or Ado ew Process aunch New /	d to Image C ing Definitic Analysis Jol	Collectior on b
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Image Channels 🧖	ℤ 129.177.231.7	4 Analysis Job Statu	ses					_ 🗆 ×	s .		
Phase-Contrast	Find:		•	Clear Sea	arch Tip(i)				2		
	Job Nan	ie Vess	el Label	Job Type	Creator	Date Created	Remaini	ng Open	<b>P v</b>	Show Leg	gend (i
	20170220_AnjaMa	i_wound2 170215_MaiAi	nja	Scratch Wound M	IC	20.02.2017 11:34:00	183	$\checkmark$	ts of Inter	rest	
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				1) 📿 Refrest	3				Show PO Show Lab	ls <u>Vanag</u>	e POIs
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unalysis Jobs	•		- do Maria - do Seter Anno 2 aguin	() CRefress				•	Show PO Show Lab	ls <u>Vanag</u>	e POIs
nalysis Jobs Job Name		Job Type	ing and a second	1 CRefrest	Created	Date Completed	Color1	▼ Color2	Show PO Show Lab	Is <u>Manag</u>	e POIs
Inalysis Jobs Job Name 20170220_AnjaMai_wound2	Scratch	Job Type Vound	Vital Dir Vital C Vital Dir Vital Di	1 CRefrest	• Created 7 11:34	Date Completed	Color1	▼ Color2	Show PO Show Lab	Has	e POIs Open

#### Viewing analysed data



Viewing analysed data – microplate graph

Z 09:40 on 13.02.2017   170209_Aksnes_wound File Utilities View	Go to Metrics and select the time range and
Analysis Job (Aksnes_wound170213): 129.177.231.74 (H-Aksnes)	positions you want to investigate (or define
-23:40       ▲         □-13 (Mon)       ▲         -01:40       B         -03:40       C         -05:40       D	regions) and click on «microplate graph».
07:40       09:40         09:40       ▼         11:40       ▼         N       ▲         Slide       ▶	
Image Properties Metrics	«Microplate graph» gives a
Graph/Export Copy Metrics	quick overview of the dataset.
Phase Metrics     Mean Std. Dev. Min Mean Std.	Max ^
Wound Confluence (Percent)       A1       92,325       -	Image:       1 2 3 4 5 6 7 8         Image:       1 3 0 2 0 17         Image:       Image:         Im
Metrics for Current Image Stack	
Image Channel Wound Confluence (Percent)	Wound Width (µm) Relative Wound Density (Percent)
▶ Phase 68,558 25	5,80 77,164

# Exporting analysed data

Z Metric Graph/Export	2	×
<ul> <li>Time Plot</li> <li>Phase Metrics         <ul> <li>Phase Object Confluence (Percent)</li> <li>Phase Object Count (1/Image)</li> <li>Phase Object Count (1/Well)</li> <li>Avg Phase Object Area (µm²)</li> <li>Avg Phase Object Eccentricity</li> <li>Scan Metrics</li> </ul> </li> <li>Statistic: Mean          <ul> <li>Histogram</li> </ul> </li> <li>Phase Metrics</li> </ul>	Image:	
Book1 - Microsoft Excel       Home     Insert     Page Layout     Formulas       Data     Review     View     Acc       Paste     B     I     I     I       Image: Image in the	Region All Wells <ul> <li>Belset</li> <li>Soft &amp; Find &amp; Filter</li> <li>Soft &amp; Find &amp; Filter</li> <li>Editing</li> </ul> <b>Table Colored and the filter is seled Table Colored and the filter is seled an</b>	
7         16.05.2017 21:39         6         303,8762           8         16.05.2017 23:39         8         321,2609           9         17.05.2017 01:39         10         340,1018           10         17.05.2017 03:39         12         350,9247           11         17.05.2017 07:39         14         380,7954           12         17.05.2017 07:39         16         400,0266           13         17.05.2017 11:39         20         443,612           15         17.05.2017 13:39         22         465,1187           16         17.05.2017 17:39         26         542,2175           18         17.05.2017 19:39         28         614,3526           19         17.05.2017 21:39         30         621,5753	Select the metrics of interest and click «d export». Paste the data into excel. It will require a few exports to get all the metric values over into the table.	lata cs
20         17.05.2017 23:39         32         710,7784           21         18.05.2017 01:39         34         787,9478           22         18.05.2017 03:39         36         865,5345           23         18.05.2017 05:39         38         936,542           24         18.05.2017 07:39         40         1023,012           25         18.05.2017 07:39         42         1170,149           26         H         55.2017 07:39         44         1309 123           76         H         Sheet1 , Sheet2 , Sheet3 , T         1309 123         14 []           76         H         Sheet3 , Sheet3 , T         1309 123         14 []		

#### How to export image sets



# How to export movies

Export Movie or Image Set		• To export movies, select sequence type:						
Con	figure Export for 1 file	movie						
Export Type Selection Sequence Type: Movie Movie As Displayed on Screen Phase-Contrast 48 scans	(Thu)       Time Range         14:40       Start Time         15:40       90.02.2017         19:40       2:40         21:40       <         23:40       <         (Fri)       B         (Sat)       B         (Sun)       E a         09:40       End Time         13.02.2017       11:40         I1:40       I1:40	<ul> <li>Select the wells you want to create movies from and click continue. There will be some cropping involved due to size.</li> <li>Select the speed (frames per second) you want.</li> </ul>						
Go Back		Cancel     Continue     Guality:     9       Frames per second:     Example movie at 3 fro:						
<ul> <li>You can either export the mas raw data (phase contrast fluorescent channel) or the set with the masks.</li> <li>For the latter click on analy the bottom) and check scrata and confluence mask before to utilities-export movie.</li> </ul>	novie t + data ese (at e going 170209_Aksnes_ ound A2 1.mpe	W 170209_Aksnes_w 4 ound2 A2 1.mp4						

### Deleting analysis jobs



## Deleting your raw data from the IncuCyte controller

Z IncuCyte ZOOM															
129.177.231.74 (H-Aksnes)	129.177.231.74 (H-Aksnes) • Next Scan: 44 minutes (20:30)														
File View Preferences H	File View Preferences Help														
Task List	Device Accounts Delete Logs														
View Scans	Eir	Find:													
Search					Search The										
Schedule Scans		Select	Start Date/Time	User	Label	Cell Type	Scan Type	Color1	Color2	Phase	Objective				
Archivoc	9														
Archives			09.02.2017 14:40	H-Aksnes	170209_Aksnes_wound	Hap_wt, Hap_wt_GFP, Hap_KO1,	Scratch Wound			$\checkmark$	10x				
J Administer	r		09.02.2017 14:40	H-Aksnes	170209_Aksnes_prolif	Нар	Standard			V	10x				
		-													
				Ve	w con only delete ye	ur row doto by a	aina								
		You can only delete your raw data by going													
		through «administer-delete». Select the file													
				and click on delete. This will remove the											
				data from the controller and can NOT be											
				optored again into the IncuCute. This											
Device Status				m	means you can never analyse this specific										
Next Scan: 20:30				de	to in the controller of	aain									
Set By: MIC				da	ata in the controller a	yalli.									
Set At: 23.02.2017 14:10															
Status: Ready To Scan Objective: Nikon 10x															
Filter: Dual Color Model 4459															
Free Space (% free):															
Disk - 8 TB (98%) Database - 10 GB (>99%)															
Temperature: 37,3 °C 🛄	V     Kerresn     Select All     Unselect     View Vessel     X     Delete														

#### Scratch woundmaker – useful and VERY expensive toy (only for specially trained users)

- Creates 96 homogeneous, 700-800µm wide wounds.
- Woundmaker needs to be cleaned before and after every use.
- Cleaning solutions must be 45 ml, not more not less.
- Never place woundmaker directly on bench and never turn woundmaker upside down!
- Never leave any wells **dry**, this will damage pins.
- Never use woundkmaker with more than **100µl** of media per well.
- Wear gloves, cell culture coat and shoe protection when entering the cell lab.
- Get your ImageLock Essen microplate from MIC (booking system-supplies).





- Before usage, soak pins in sterile water for 5 min and then 70% ethanol, and let air dry.
- Perform the wound following the 6 step procedure (next page). If you are wounding multiple plates of the same cell line, simply soak pins in 45ml sterile distilled water between wounding.
- After the last experiment: 45ml of 0.5% Alconox for 5min, 45ml of 1% Virkon S. for 5 min, 45ml of sterile distilled water for 5min, twice with 45ml 70% ethanol for 5 min.

#### Scratch woundmaker 6 steps to create wound



- Step 1
- Remove top of WoundMaker<sup>™</sup>.
- Set top in empty wash boat.



#### Step 2

- Insert plate (containing cells & media) into base plate holder.
- Remove plate cover.



#### Step 3

- Replace pin block by guiding the rear dowels of pin block into the rear holes of the base plate.
- Do not push down.



Step 4Push and hold the black lever.



#### Step 5

 Lift pin block while continuing to hold the black lever down.



#### Step 6

- Replace plate cover.
- Wash wells (up to two washes).
- Add treatment conditions.
- Put into the IncuCyte<sup>™</sup> and start acquiring data and images.