Vectra Polaris仪器使用操作说明

2021/8/18

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Section 1

软件主界面介绍

Vectra Polaris

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主界面选项功能:

光路校准,当发现扫描结果
 出现较为明显的拼图痕迹时进
 行校准。

②编辑扫描程序,可进行明场
 以及荧光扫描程序的设置。

③ 扫描玻片,可为仪器玻片架
 上的每张玻片命名并分配扫描
 程序,进行全片扫描或是局部
 精扫。

④ 打开Phenochart看图软件。

Section 2



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🕂 🔎 Search for anything



选项功能:

①在主界面单击Check

Dashboard进入光路校准。

3

Disk Space

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Brightfield References

③ 校准完成后点击Back返回主 界面即可。

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选项功能:

① 明场校准,当明场扫描结果 出现明显拼图痕迹时使用。点 击Acquire, 随后按弹窗提示进 行校准。

② 荧光校准, 当荧光扫描结果 出现明显拼图痕迹时使用。点 击Acquire, 随后点击Acquire for All,按弹窗提示进行校准。

Section 3

明场扫描程序设置

Vectra Polaris

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选项功能:

①在主界面单击Edit Protocol进

入扫描程序设置。

🚺 Vectra Polaris

Back

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选项功能:

①点击New可创建新的扫描程

② 点击Load可加载已有的扫描 程序并进行修改。

👖 Vectra I	Polaris	– 0 ×
Back	Edit Protocol	\$ <u>\$</u>
New	. Load Save Protocol: N/A	

-

Create New Protocol Protocol Name: BF test Imaging Mode: BF test Imaging Mode: Please select a study for this protocol Root Path: D:\Data\VectraPolaris Available Studies: CGD Chong Qing-Demo-40 C/W-all FL FRS FRS RESCAN HCC U210524-QP S-01 SH JJUVan-f8-7color-20210120 SR820210712 Letet TEST-202010714 Create New Study Study Name: Create New Study Create Cancel Protocol Create Protocol Cancel Cance	
Protocol Name: BF test Imaging Mode: Bightfield Fluorescence Please select a study for this protocol Root Path: D:\Data\VectraPolaris Available Studies: CGD Chong Qing-Demo-40 CYW-all FL FRS RESCAN HCC M20210524-QPS-01 SRB20210712 Test Create New Study Study Name: Create Study Create Study Big Create Study Create Stu	Create New Protocol X
Imaging Mode: Bightfield Fluorescence Please select a study for this protocol Root Path: D:\Data\VectraPolaris Available Studies: CGD Chong Qing-Demo-40 CYW-all FL FRS FRS RESCAN HOC SRB20210712 TEST-202010714 Create New Study Study Name: Create Study Create Study Create Study	Protocol Name: BF test
Please select a study for this protocol Root Path: D:\Data\VectraPolaris Available Studies: CGD Chong Qing-Demo-40 CYW-all FLS FRS RESCAN HCC M20210524-QPS-01 SH July van-66-7color-20210120 SRB20210712 TEST-202010714 Create New Study Study Name: Create Study Create	Imaging Mode:
Root Path: D:\Data\VectraPolaris Available Studies: CGD Chong Qing-Demo-40 CYW-all FL FRS FRS RESCAN HCC M20210524-QP S-01 SH JulY van-65-rooio-20210120 SRB20210712 Leas TEST-202010714 Create New Study Study Name: Create Study Create Stu	Please select a study for this protocol
Available Studies: CGD Chong Qing-Demo-40 CYW-ail FL FRS FRS RESCAN HCC M20210524-QPS-01 SH JulYuan-65-7c0lor-20210120 SR820210712 Test TEST-202010714 Create New Study Study Name: Create Study Create Study Create Study Create Study Create Cancel Protocol	Root Path: D:\Data\VectraPolaris
Cold Crong Ging-Demo-40 CrW-all FL FRS FRS RESCAN HCC M20210524-QP S-01 SH Jul Yuan-65-7c0ior-20210120 SH Jul Yuan-65-7c0ior-20210120 SH Jul Yuan-65-7c0ior-20210120 SH Jul Yuan-65-7c0ior-20210120 Study Name: Create New Study Study Name: Create Study Create Study Create Study Create Study Create Study Create Cancel	Available Studies:
FRS FRS FRS FRS M20210524-QPS-01 SH Jul Yuan-68-7color-20210120 SH Jul Yuan-68-7color-20210120 SH B20210712 Leet TEST-202010714 Create New Study Study Name: Study Name:	CGD Chong Qing-Demo-40 CYW-all FL
M20210524-QP 5-01 SHR Jul Yuan-68-Coolor-20210120 SHR 20201712 Test TEST-202010714 Create New Study Study Name: Create Study Create Study Create Study Create Cancel Protocol	FRS RESCAN
Test v Create New Study Study Name: Study Name: Create Study Create Study Create Study	M20210524-QPS-01 SH Ju Yuan-6s-7color-20210120 SRB20210712
Create New Study Study Name: Create Study	test TEST-202010714
Create New Study Study Name: Create Study Create Study Create Study Create Cancel Protocol Cancel	Consta New Study
Study Name: Create Study Create Study Create Study Create Cancel Protocol Cancel	
Create Study	Study Name:
Create Protocol Cancel	(4) Create Study
Create Protocol Cancel	
Create Protocol Cancel	
Create Protocol Cancel	
Create Protocol Cancel	Ē
Create Protocol Cancel	\bigcirc
Protocol	Create
	Protocol

📙 Scan1

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选项功能:

- ① 输入protocol名字,可自行 定义,方便记忆即可。
- ②选择Brightfield,即明场扫描 方式。
- ③选择储存路径(文件夹)。
- ④若需新建文件夹可在此输入 文件夹名称并点击Create Study。
- ⑤ 点击Create protocol创建程 序。

🛐 Vectra Po	olaris						
Back	Edit P	rotocol					
New	Load	Save Protocol: 123*					
Slide Scan	Settings		Multispectral Field Settings				
Pixel Resolu	ution:	0.50µm (20x) 🗸 🗸	Pixel Resolution:	0.50 μm (20x) $\qquad \sim$			
Take Sna	apshots	1		2			
Advanced	Settings						

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选项功能:

①设置全片扫描放大倍数。

②设置局部精细扫描放大倍数。

③点击Save保存protocol。

Section 4

荧光扫描程序设置

Vectra Polaris

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选项功能:

①在主界面单击Edit Protocol进

入扫描程序设置。

🚺 Vectra P	olaris	
Back	Edit	Droto

Save... Protocol: 123* Load...



Multispectral Field Settings 0.50µm (20x)

 \sim

Take Snapshots..

New...

Advanced Settings..

Create New Protocol	×
Protocol Name: FL test	
Imaging Mode; O Brightfield	
Staining	
Multispectral Slide Scan:	Use this option for Opal
Opal Polaris 5, 6, and 7 color	staining. This includes:
Opal 4 color	Opal 480 Opal 520
O Multispectral Fields:	Opal 570 Opal 620
 Opal up to 7 colors 	Opal 690 Opal 780
Opal 8 and 9 color	
Select Filters for Imaging	
Please select a study for this protocol Root Path: D:\Data\VectraPolaris Available Studies: CGD Onong Qing-Demo-40 CYW-all FL FRS RESCAN HCC M20210524-QPS-01 SH JuYuan-8=7color-20210120 SRB20210712 TEST-202010714 ZL	4
Create New Study	
Study Name:	
	Create Study
	Create Protocol Cancel
	6

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③选择所使用的染料, 四色或 七色Polaris试剂盒在第一个大 类下选择;七色或其它厂家染 料在第二个大类下选择。

选项功能:

① 输入protocol名字,可自行 定义,方便记忆即可。

②选择Fluorescence, 即荧光 扫描方式。

④选择储存路径(文件夹)。

⑤ 若需新建文件夹可在此输入 文件夹名称并点击Create Study。

ľ	Vectra	Po	laris	
---	--------	----	-------	--

Vectra Polaris				
Back Edit P	Protocol			
New Load	Save Protocol: FL	test*		
Overview Scan Rules				
Overview Scan Filter: DAP	PI MSI 🗸 🗸			
Slide Scan Settings		Multispectral Field Settin	gs	
Pixel Resolution:	0.50µm (20x) ~	Pixel Resolution:	0.50µm (20x)	~
Filter: DAPI / Opal 780		Filter: DAPI / Opal 780		
DAPI MSI	4.00 ms	DAPI MSI	DAPI	150.00 ms
Filter: Opal 480 / Cy5		Filter: Opal 480 / Cy5		
Cy5 MSI	4.00 ms	Cy5 MSI	Opal 690 or Cy5	150.00 ms
Filter: FITC		Filter: FITC		
FITC	4.00 ms	FITC	FITC or AF488	150.00 ms
Filter: CY3		Filter: CY3		
Cy3	4.00 ms	Cy3	Cy3 or TRITC	150.00 ms
Filter: Texas Red		Filter: Texas Red		
Texas Red	4.00 ms	Texas Red	Texas Red or	150.00 ms
Scan Exposures	Select Scan Bands	Field Exposures	Select Field B	ands

Advanced Settings...

选项功能:

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① 分别选择全片扫描以及局部 精细扫描的放大倍数。

②点击Select scan bands可对扫 描滤光片进行设置,进行滤光 块的添加或删除。

③ 点击Scan exposures进行曝光 时间的设置。

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?
 Set Scan Exposures
 Set Field Exposures



	Autoexpose	
Take Image		
Folder: D:\Data\VectraPolaris\ZL\Snapshots		
Base Filename: tonsil-C7-1		
Starting Number: 2	* *	Snap
Load Camer		
1		

选项功能:

① 点击Load carrier装载需要扫

描的玻片架。



Focus: 14

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选项功能:

 ① 此处显示玻片架上的四张玻 片,其中红色"+"代表目前相机
 所处位置,可在玻片上单击左
 键移动相机到组织上。

② 若组织较小或难以找到,可 点击Take overview,仪器会对 玻片架进行预览,会展示出组 织形态,以便定位到组织。

 ③ 找到组织后拖动拉杆进行调 焦直至图片清晰。

④也可用Auto focus进行自动



? Set Scan Exposures O Set Field Exposures APL MSL Cy5 MSI 2 FITC Cy3 Texas Red $(\mathbf{3})$ 1) Autoexpose Close Shutter Take Image Folder: D:\Data\VectraPolaris\ZL\Snapshots Base Filename: tonsil-C7-1 Snap Starting Number: 2 Unload Carrier Auto Focus Take Overview Carrier On Stage Slide 2 X,Y,Z: [14618, 48482, -350 µm 6.7] Stage Height

O H

选项功能:

 1 左侧图片即为当前相机视野, 白色高亮为荧光信号,黑色为 无信号位置,红色则代表过曝, 需调整曝光时间。可在图片上 单击左键移动视野位置。

② 可在此处切换不同通道,并对各通道的曝光时间进行设置。

③ 也可点击Autoexpose自动设 置曝光时间,建议在有明显阳 性信号的视野下进行设置。



Focus:

– 🗗 🗙 (digs O Set Field Exposures 1.02 ms 14.18 ms (1)2.26 4 4 2 Autoexpose Close Shutter Folder: D:\Data\VectraPolaris\ZL\Snapshots

-

Snap







选项功能:

① 依次对所有的荧光通道进行 曝光时间的设置。

② 每个通道都切换到有明显阳 性信号的位置,并点击自动曝

光。

Back

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Set Field Exposures











150 Opal 690 or Cy5 2 150 FITC or AF488 ms 150 Cy3 or TRITC Texas Red or AF594 150

Take Overview

6.6]

-350 µm Stage Height

34.01

? O Set Scan Exposures



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选项功能:

①若需要进行局部精扫,则在 此处选中Set field exposures进 行精扫曝光时间的设置。

② 设置方法与全片相同, 依次 选择不同通道并Autoexpose。

③设置完成后点击Back返回。

🔰 Vectra Polaris

Back Edit Protocol



Slide S	can Settings		Multisp
Pixel F	lesolution:	0.50 μ m (20x) \sim	Pixel F
Filter:	DAPI / Opal 780		Filter
	DAPI MSI	1.02 ms	
Filter:	Opal 480 / Cy5		Filter
	Cy5 MSI	14.18 ms	
Filter:	FITC		Filter:
	FITC	2.26 ms	
Filter:	CY3		Filter:
	Cy3	30.85 ms	
Filter:	Texas Red		Filter:
	Texas Red	20.66 ms	
Sca	in Exposures	Select Scan Bands	Fiel

	Mulusp	ectral rield Settings			
•	Pixel F	Resolution:		0.50µm (20x)	~
_	Filter	DAPI / Opal 780			
		DAPI MSI	DAPI		34.01 ms
	Filter:	Opal 480 / Cy5			
		Cy5 MSI	Ора	al 690 or Cy5	66.40 ms
	Filter:	FITC			
		FITC	FIT	C or AF488	23.89 ms
	Filter:	CY3			
		Cy3	Cy3	or TRITC	247.00 ms
	Filter:	Texas Red			
		Texas Red	Texas Red or 141.1		141.16 ms
	Fie	ld Exposures		Select Field Band	ls

.

Advanced Settings...

Save Protocol X	
Please select a study for this protocol	
Root Path: D:\Data\VectraPolaris	
Available Studies:	
CGD ^ Chong Qing-Demo-40 CYW-all FL FRS RESCAN HCC M20210524-QPS-01 SH Jiu Yuan-6s-7color-20210120 SRB20210712 TEST-7020110714	
ZL Y	
Create New Study	
Study Name:	
Protocol Name: FL test Save Cancel	
	T
(2)	

选项功能: ①点击Save。

② 再次确认储存位置并点击 save进行保存。

Section 5

玻片全片扫描

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🕂 🔎 Search for anything



选项功能:

① 在主界面单击Scan slides进 入玻片扫描。

👖 Vectra Pola	ris									– 0 ×
Back	Scan Slides									4 ₂₂
Load Setup	Save Setup	Configure Enter Slide Tasks IDs		Scan	4					
Slot 1	🗸 570-FST	V 570-SPARC	✓ 570-Galectin-1	✓ 570-CystationA	-					
Slot 2	✓ 570-TRIM29	Θ	Θ	Θ						
Slot 3	AB2380	Θ	Θ	Θ						
Slot 4	V 16-11596B-P2	V 16-5408B-P2	V 16-22565E-P2	V18-8667E-P2						
Slot 5	V 20-0637C-P2	✓ 17-8483D-P2	Edit Clider	V10 24100 02						
Slot 6	V 16-32282D-P2	Θ		ci		01.1.0	01.1.4			
1////	///////////////////////////////////////	///////////////////////////////////////	Slot	Slot 2		Slot 3	Slot 4			
Slot 8	🗸 tonsil-CD19	V CD3	Task: Ignore	∨ Ta	sk: Ignore 🗸	Task: Ignore	✓ Task: Scan Slie	des 🗸		
Slot 9	403065-	i AF	Study:	~ Stu	ıdy: 🗸 🗸 🗸	Study:	✓ Study: ZL	~	N	
Slot 10	✓ CD20-520	Θ	Protocol:	Pro	itocol:	Protocol	Protocol: C2-2020	0806)	
Slot 11	Θ	Θ								
Slot 12	Θ	Θ	Slide ID:	Slie	e ID:	Slide ID:	Slide ID: 96			
Slot 13	V T6-control-0811	V 26T-0811								
Slot 14	27T-0811	💙 34T-0811								
[[]]]	///////////////////////////////////////	///////////////////////////////////////	1							
[]///	///////////////////////////////////////	///////////////////////////////////////	1							
Slot 17	Θ	Θ								
Slot 18	Θ	Θ					Prioritize this carrier	OK Cancel		
[]/]/]	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	1					
Slot 20	Θ	Θ	Θ	96			(3)		
(1)								-		
\sim										

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选项功能:

①点击玻片架左侧圆点,或点
 击单张玻片左侧圆点进行扫描
 设置。

② 依次为每张玻片分配扫描程 序,进行全片扫描时Task选择 为Scan slides,Study为文件夹 名称,Protocol为对应扫描程序, Slide ID为本张玻片编号。

③ 点击OK,待扫描玻片前的指 示标志会变成蓝色箭头。

④点击Scan进行扫描。

N	Vectra Po	olaris									
1	Back		an	Slides							
	Load Set	up	Save S		onfigu Tasks	re Enter Slide IDs				Scan	
0	Slot 1		~	570-FST	V	570-SPARC	~	570-Galectin-1	V	570-CystationA	
0	Slot 2		~	570-TRIM29	Θ		Θ		Θ		
0	Slot 3		~	AB2380	Θ		Θ		Θ		
0	Slot 4		~	16-11596B-P2	V	16-5408B-P2	~	16-22565E-P2	<	X18-8667E-P2	
0	Slot 5		~	20-0637C-P2	V	17-8483D-P2	~	17-31281E-P2	✓	X19-2418B-P2	
0	Slot 6		~	16-32282D-P2	Θ		Θ		Θ		
	///		///	///////////////////////////////////////	//	///////////////////////////////////////	///	///////////////////////////////////////	//	///////	
0	Slot 8		~	tonsil-CD19	~	CD3	~	CD4	Θ		Configure Carriers — 🗆 🗙
0	Slot 9		~	403065-	Θ	AF	Θ		Θ		Please select one or more carriers to configure:
0	Slot 10)	~	CD20-520	Θ		Θ		Θ		Slot 1 Slot 2
0	Slot 11	1	Θ		Θ		~	tonsil-C7-0811-1	V	tonsil-C7-0811-2	Slot 3 Slot 4
0	Slot 12	2	Θ		Θ		Θ		Θ		Slot 5 Slot 6
0	Slot 13	3	~	T6-control-0811	~	26T-0811	~	18T-0811	V	36T-0811	Slot 8 Slot 9
0	Slot 14	4	×	27T-0811	×	34T-0811	Θ		Θ		Slot 10 Slot 11
		[]]	//	///////////////////////////////////////	[]]	///////////////////////////////////////	//	///////////////////////////////////////	//	///////	Slot 12 Slot 13
//	///			///////////////////////////////////////		///////////////////////////////////////		///////////////////////////////////////		///////	Slot 14
0	Slot 17	7	Θ		Θ		~	7#-Ki67	Θ		Slot 17 Slot 18
0	Slot 18	3	Θ		Θ		Θ		Θ		Slot 20
//		///	//	///////////////////////////////////////		///////////////////////////////////////	//	///////////////////////////////////////	//	///////	
0	Slot 20)	Θ		Θ		Θ		9	96	Configure the slides in these carriers:
											O Using the same rules for all slides

O Using different rules for each carrier slot

Cancel

Next...

4

选项功能:

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- ① 如有多张玻片使用相同的扫 描程序,可点击Configure Tasks 进行批量设置。
- ② 按Ctrl键选中需批量设置的 玻片架。
- ③选择Using the same rules for all slides。
- ④ 点击Next。

١	Vectra Polari	is										
	Back	Scan	Slides									
[Load Setup	Save S	Setup	Configur Tasks	e Enter Slide IDs				Scan	2		
•	Slot 1	~	570-FST	~	570-SPARC	~	570-Galectin-1	~	570-CystationA	Ŭ		
•	Slot 2	~	570-TRIM29	Θ		Θ		Θ				
0	Slot 3	~	AB2380	Θ		Θ		Θ				
0	Slot 4	~	16-11596B-P2	~	16-5408B-P2	~	16-22565E-P2	~	X18-8667E-P2			
0	Slot 5	~	20-0637C-P2	~	17-8483D-P2	v	17-31281E-P2	~	X19-2418B-P2			
0	Slot 6	~	16-32282D-P2	Θ		Θ		Θ				
/	/////	////	///////////////////////////////////////	[]]]	///////	////	//////	////	/////////			
0	Slot 8	~	tonsil-CD19	~	CD3	~	CD4	Θ				
0	Slot 9	~	403065-	Θ	AF	Θ		Θ			Edit Slides	-
0	Slot 10	~	CD20-520	Θ		Θ		Θ			Taski	Corre Chiles
0	Slot 11	Θ		Θ		~	tonsil-C7-0811-1	~	tonsil-C7-0811-2		Task:	Scan Slides
0	Slot 12	Θ		Θ		Θ		Θ			Study:	ZL
0	Slot 13	~	T6-control-0811	~	26T-0811	~	18T-0811	~	36T-0811		Protocol:	FL test
0	Slot 14	~	27T-0811	~	34T-0811	Θ		Θ			Slide ID:	test slide
/	/////	[[]]	///////////////////////////////////////	////	//////	////	//////	////	/////////			
/	/////	[[]]	///////////////////////////////////////	////	///////	////	//////	////	/////////			
0	Slot 17	Θ		Θ		×	7#-Ki67	Θ				
0	Slot 18	Θ		Θ		Θ		Θ				
/	/////	[[]]		////	///////	////	[[]]]]]	////	/////////			
•	Slot 20	Θ		Θ		\bigcirc		9	96			
											Prioritiz	e the containing ca

t Slides

Task::

Scan Slides

Rak::

Scan Slides

Protocol:

F L test

Slide ID:

test slide

OK

Cancel

T Edit Slides

选项功能:

– 0 ×

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①此时只需设置一次扫描程序。

②随后点击Scan进行扫描。

Section 6

全片扫描结果观看



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Scan1

Opal 480 Opal 520

Vectra Polari

👩 18.png - Paint Phenochart "Motif ...

 \Box Desktop 8/16/2021

Phenochart功能:

① 可通过鼠标滚轮放大/缩小 图片,也有一些固定倍数可选。

②此处显示扫描的各个通道, 可点击左键显示/隐藏某通道, 或右键更改通道伪彩及亮度。

③ 若为七色Polaris试剂盒,可 在此处点击unmixing扣除背景。

④ 点击Snapshot可对当前屏幕 中所展示的区域进行图片输出, 可保存为JPEG、TIFF等格式。

Section 7

局部精细扫描设置



Scan1

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Vectra Polaris

👩 19.png - Paint

Phenochart "Motif ...

精扫区域选择:

①点击右上角Login进行登录。

- ② Username可任意输入, 输入 完成后点击OK。
- ③此后会发现此处几个按钮变 为可点击状态。



👩 21.png - Paint

Phenochart "Motif ...

Desktop * ^ 4:33 PM 8/16/2021

精扫区域选择:

①点击Stamp进行精扫区域框

② Select for选为Acquisition, Size in fields为框选大小,最大 为3*3, Field resolution为精扫 倍数,需注意该倍数需与 protocol中的精扫倍数一致。

③随后可在图片上点击左键进 行精扫区域选择,数量不限。

④ 区域选择完成后可保持看图 软件打开或直接关闭软件均可。 Load Slide



0

E

Scan1

Vectra Polaris

Standard

Opal 480 Opal 520 Opal 570 Opal 620 Opal 780

2 mm

X: 13.58 mm, Y: 39.22 mm

👩 22.png - Paint

Phenochart "Motif ...

Desktop * ^ 4:34 PM 8/16/2021

精扫区域选择:

① 若该玻片为组织芯片,可点 击TMA方法进行精扫区域选择。

② 在此处输入芯点的行数和列 数。

③ 可通过Core size以及Imaging size调整每个芯点的大小至合 适状态, 同样需注意Field resolution的倍数需与protocol 中的精扫倍数一致。

④ 随后框选所有芯点,并点击 Accept_o

	Vectra Polaris												
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0	Slot 2	v	570-TRIM29	Θ		Θ		Θ					
0	Slot 3	~	AB2380	Θ		Θ		Θ					
0	Slot 4	~	16-11596B-P2	~	16-5408B-P2	~	16-22565E-P2	~	X18-8667E-P2				
0	Slot 5	v	20-0637C-P2	~	17-8483D-P2	V	17-31281E-P2	~	X19-2418B-P2				
0	Slot 6	v	16-32282D-P2	Θ		Θ		Θ					
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进行精扫:

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¢.

- ①返回扫描软件,并点击需精 扫的玻片。
- ②将玻片Task改为Acquire Fields,其余选项保持不变,点 击OK。
- ③ 随后点击Scan进行玻片精扫。

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	Iung caner 9color test_Scan1_annotation	7/12/2021 11:10 AM	LOCK File	1 KB
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O 🗄 📜 Scan1

Vectra Polaris

🞻 24.png - Paint

精扫结果:

- ①精扫完成后图片文件夹中会
- 多出一个MSI文件夹,即为精
- 扫数据。

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💧 Music

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Documents

scan protocol

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Scan1

Scan1

OneDrive

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3D Objects

💻 This PC

- Pictures
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- 👳 机房存储 (\\192.168.0.10) (Z:)
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- .fseventsd
- .mediaexplorer
- .Spotlight-V100
- 20210710 TZ 6 color
- Android
- BOND程序
- Bright field single
- HALO 用户手册
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- license
- Motif opal 7 color test-1
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Ung caner 9color test_[6072,40048].im3

Ung caner 9color test_[8152,42104].im3

Iung caner 9color test_[8813,44537].im3

Ung caner 9color test_[9520,38242].im3

Iung caner 9color test_[9805,36329].im3

Ung caner 9color test [10329,41452].im3

Iung caner 9color test_[10453,44585].im3

Ung caner 9color test_[10880,37630].im3

Ung caner 9color test_[10934,36026].im3

Ung caner 9color test_[11260,41686].im3

Ung caner 9color test_[12833,33105].im3

Ung caner 9color test_[14720,38619].im3

Iung caner 9color test_[15228,35870].im3

Ung caner 9color test_[16389,40288].im3

Ung caner 9color test_[16739,42358].im3

Ung caner 9color test_[17735,41238].im3

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IM3 File

Vectra Polaris



清扫数据:

①精扫数据为.im3格式,可用 inForm软件打开并进行定量分 析。