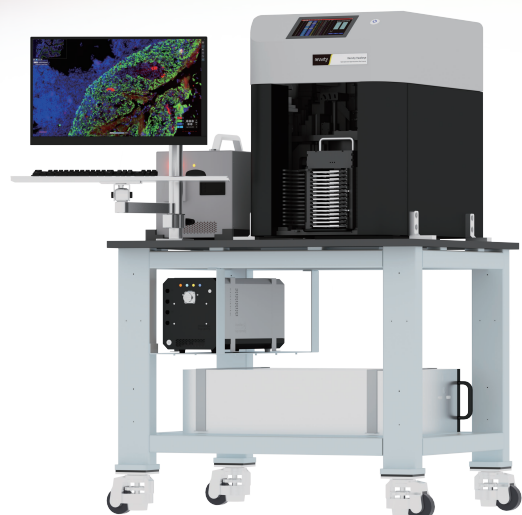


revvity

Revvity Hawkeye 高速高分辨显微扫描仪



仅供研究使用。不用于临床诊断。



主要性能：

- 180秒内全片100X油镜扫描完成：较传统系统速度提升60倍以上
- 载玻片全片扫描 (Whole Slide Image, WSI) :全覆盖随机分布的亚细胞水平稀有事件细胞, 最大程度避免假阴性判读
- 实现亚细胞水平细节病变的检测, 全片搜索异常细胞, 检测灵敏度可达十万分之一
- 极速全自动对焦系统:CSFA聚焦算法
- 实时交互式AI分析, 高数据流处理, 支持10G~100G/秒的数据流
- 近百类不同分型细胞的全自动分类计数 (百分比/绝对浓度计数)
- 形态定量散点图快速评估各类细胞

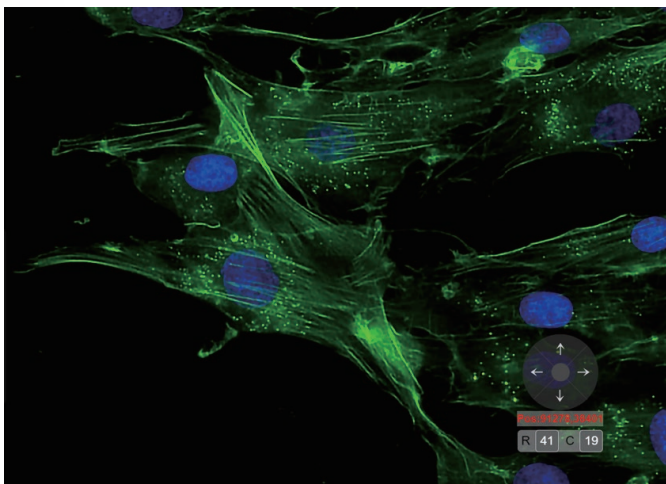
高速高分辨显微扫描仪功能概述：

- 100倍油镜180s完成全切片全视野扫描；
- 全切片100倍油镜图像自动拼接并可无极放大浏览；
- 扫描同时实时AI交互数据分析；
- 实现亚细胞水平细节病变的检测；
- 100种细胞自动分类分析；
- 数据结果单细胞原位交互式可回溯查看；
- 数据图表、流式散点图等分析结果展现形式。



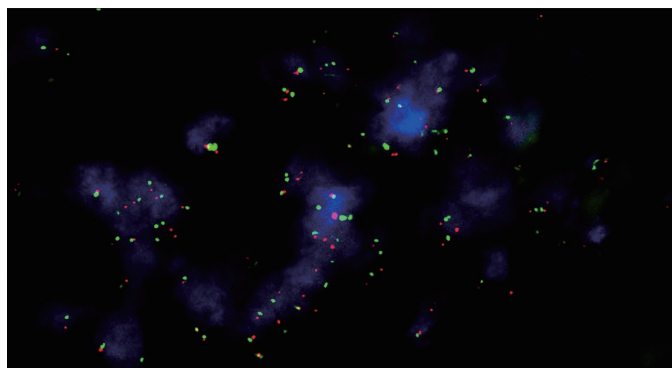
代表应用：

0.2um是可见光的最高光学分辨率, 适用于所有细胞爬片应用



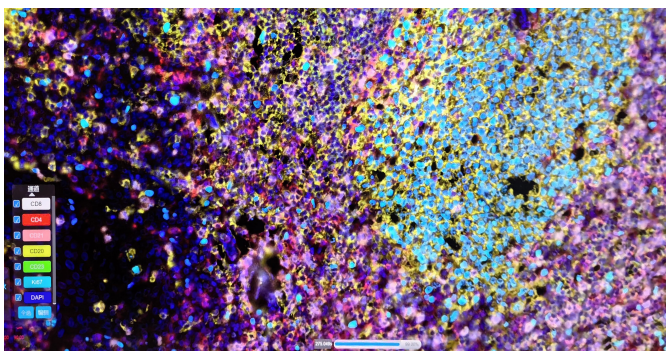
(DNA/RNA) FISH原位杂交荧光探针扫描

1. 多色荧光标记FISH探针, 可获得2n-1种探针混合 (7, 15, 31种);
2. 多靶位同时原位DNA/RNA杂交检测, 特异性几乎100%;
3. 适应应用微生物物种快速鉴定。



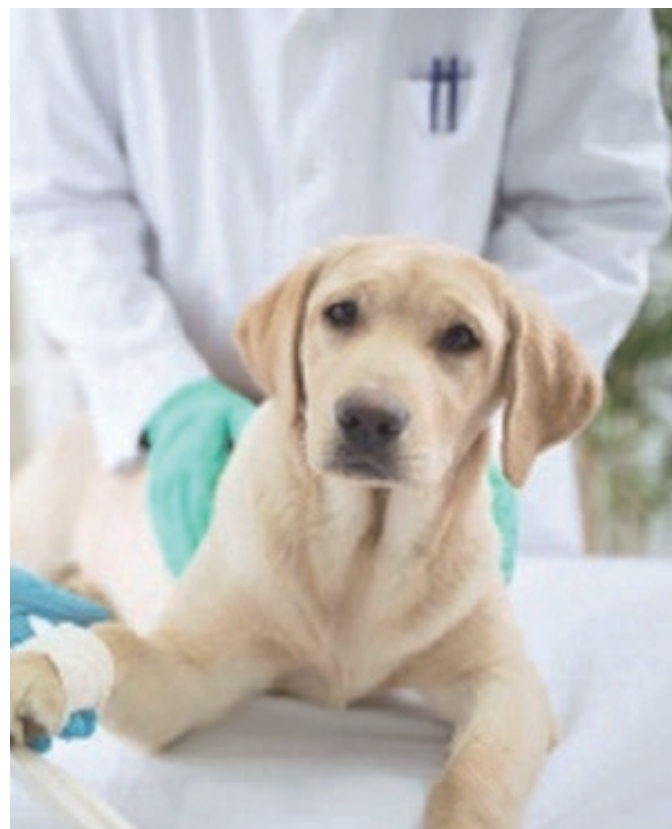
肿瘤组织免疫环境分析

1. 5~7色免疫荧光抗体染色;
2. 显示免疫细胞在肿瘤组织的分布;
3. 肿瘤免疫治疗的伴随诊断, 如PD-1抗体治疗。



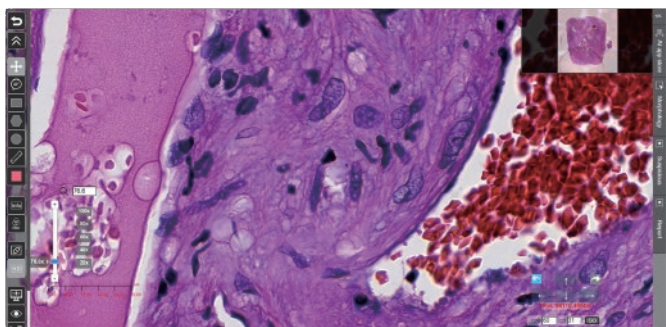
宠物实验室诊断应用

1. 血、尿、粪三大常规, 确诊法检测;
2. 体液、穿刺细胞学检测;
3. AI+形态学专家远程诊断。



组织病理的极高清晰数字化阅片

1. 0.1um采样分辨率远高于目前使用的0.25um分辨率;
2. 0.1um扫描时间较0.25um缩短一半以上。



FUNGI ASSOCIATED WITH SKIN LESIONS		
Organism	Cytologic Appearance	Schematic
<i>Blastoschizum dermatitidis</i>	Round, thick-walled, broad-based budding yeasts 8-20 µm in diameter Deeply basophilic	
<i>Coccidioides immitis</i>	Round spherules that may contain endospores 18-100 µm (spherules), 2-5 µm (endospores) Blue or clear, double-contoured spherules	
<i>Cryptococcus neoformans</i>	Round (typical) to fusiform yeasts 4-40 µm in diameter, depending on capsule Pink to bluish-purple with thick nonstaining capsule (occasionally nonencapsulated)	
<i>Histoplasma capsulatum</i>	Round to oval yeasts 2-4 µm in diameter Pale to medium blue with halo around yeast Eccentric pink or purple nucleus	
<i>Malassezia organisms</i>	Oval or club-shaped yeasts 2-4 µm in diameter Deeply basophilic	
<i>Mycosporum</i> , <i>Trichophyton</i> spp	Mycelia and arthrospores within hair shafts Medium to dark blue with thin, clear halo	
<i>Sporothrix schenckii</i>	Round, oval, or fusiform (cigar-shaped) yeasts 3-10 µm long; 1-3 µm wide Pale to medium blue, pink, or purple nucleus	

Figure 4.2. Fungi that can be associated with skin lesions. (Illustration by Tim Vojt.)

SELECTED PARASITES ASSOCIATED WITH RESPIRATORY DISEASE			
Organism	Species	Cytologic Appearance	Schematic
<i>Alveolaria abstrusus</i>	Cats	First-stage larvae S-shaped tail 360 µm long	
<i>Capillaria aerophilus</i>	Cats and dogs	Double-operculated, oval eggs Asymmetrical terminal plugs 70 µm long, 35 µm wide	
<i>Crenosoma vulpis</i>	Dogs	Bluntly conical anterior end Finely tapered posterior end with slight bend 246-308 µm long	
<i>Filaria hirsuti</i>	Dogs	Larvae with kinked tail 240-390 µm long Found in lung	
<i>Odemus adleri</i> (<i>Filaria adleri</i>)	Dogs	Larvae with kinked tail 240-390 µm long Found in trachea	
<i>Paragonimus kellicotti</i>	Cats and dogs	Operculated, ovoid eggs Appear golden 75-120 µm long, 45-65 µm wide	

BACTERIA ASSOCIATED WITH SKIN LESIONS		
Organism	Cytologic Appearance	Schematic
<i>Actinomyces</i> , <i>Nocardia</i> , <i>Fusobacterium</i> spp	Branching, filamentous "beaded" rods (anaerobic) 0.2-1.0 µm × 2-5 µm; filaments 10-50 µm long	
<i>Clostridia</i> spp	Large rods; may form spores (anaerobic) 0.3-2.0 µm × 1.5-20 µm	
<i>Dermatophilus congolensis</i>	Branching filaments of paired rows of cocci Resembles "stacked coins" (aerobic, facultative anaerobe)	
<i>Mycobacterium</i> spp	Clear rods; stain red with acid-fast stains Usually intracellular (aerobic) 0.2-0.7 µm × 1-10 µm	
<i>Simonsiella</i> organisms	Large rods positioned side by side Dark blue or purple Often adhere to squamous epithelial cells 0.6-1.0 µm × 0.5-3 µm rods, occurring in stack 10-50 µm long	
<i>Staphylococcus</i> spp	Clusters of 4-12 purple cocci (aerobic) 0.5-1.5 µm	
<i>Streptococcus</i> spp	Chains of purple cocci (aerobic) 0.5-2.0 µm	

*以上所有数据信息均为我方内部初步实测所得。

— 全球代表客户 —

USA Metasystems | German Metasystems | USA Charles river | King Abdulaziz Medical City
Mayo Clinic (2套) | Flugent

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