



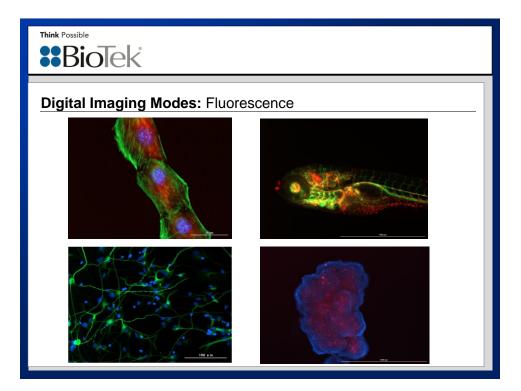
Think Possible **BioTek Imaging Basic Specifications** Matched LED light source and filter cube assemblies 4 filter cube onboard capacity: RGB, plus several other colors ×. Six objectives onboard capacity: 1.25x, 2.5x, 4x, 10x, 20x, 40x and 60x : 4x, 10x, 20x and 40x phase Read modes: End point / Time lapse / Montage Labware: 6- to 1536-well microplates Microscope slides / chamber slides **Cell Counting Chamber** T25 flasks Petri dishes AutoFocus, AutoIntensity, AutoExposure Software controlled microscopy & Joystick controller option Gen5 reader control and data reduction software

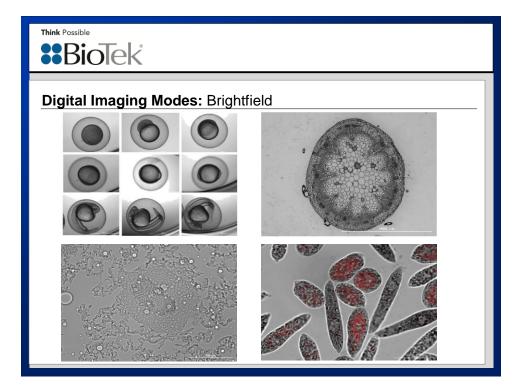
BioTek*

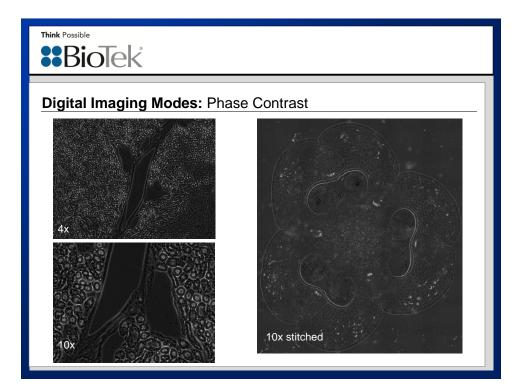
Imaging Filter Cube Options

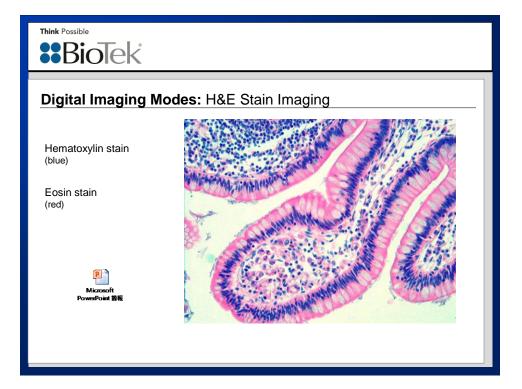
Description	P/N	Excitation	Emission	Mirror	P/N	LED
DAPI filter cube	1225100	377/50	447/60	409	1225000	365 nm
TagBFP filter cube	1225115	390/18	447/60	409	1225009	390 nm
CFP filter cube	1225107	445/45	510/42	482	1225001	465 nm
GFP filter cube	1225101	469/35	525/39	497	1225001	465 nm
YFP filter cube	1225104	500/24	542/27	520	1225004	505 nm
CFP-YFP FRET filter cube	1225110	445/45	542/27	482	1225001	465 nm
RFP filter cube	1225103	531/40	593/40	568	1225003	523 nm
Phycoerythrin filter cube	1225113	469/35	593/40	568	1225001	465 nm
Texas Red filter cube	1225102	586/15	647/57	605	1225002	590 nm
Propidium lodide filter cube	1225111	531/40	647/57	605	1225003	523 nm
Acridine Orange filter cube	1225109	469/35	647/57	605	1225001	465 nm
CY5 filter cube	1225105	628/40	684/40	660	1225005	623 nm
Chlorophyll filter cube	1225112	445/45	685/40	482	1225001	465 nm
CY5.5 filter cube	1225114	647/57	794/160	695	1225008	655 nm
CY7 filter cube	1225106	716/40	809/81	757	1225006	740 nm

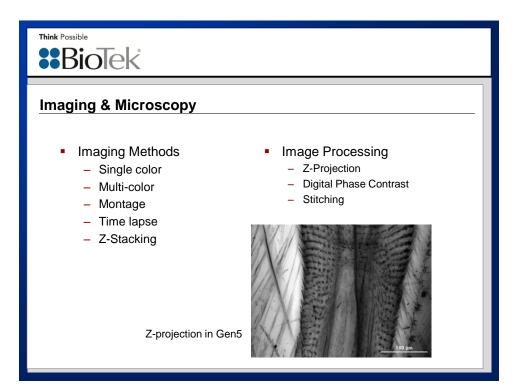


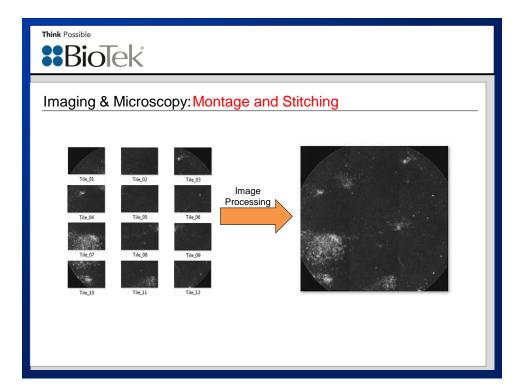


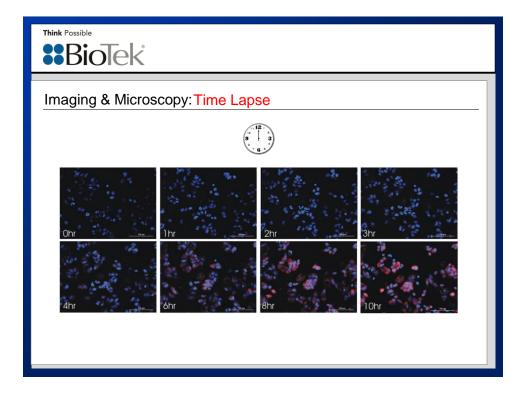


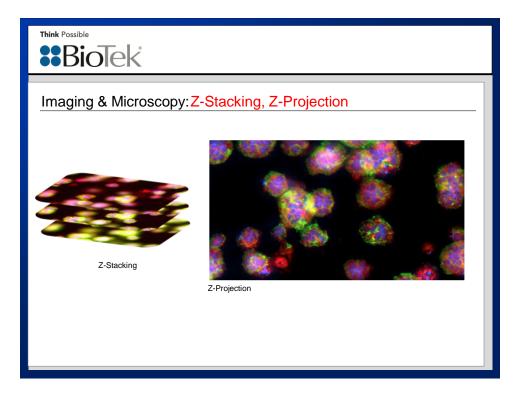


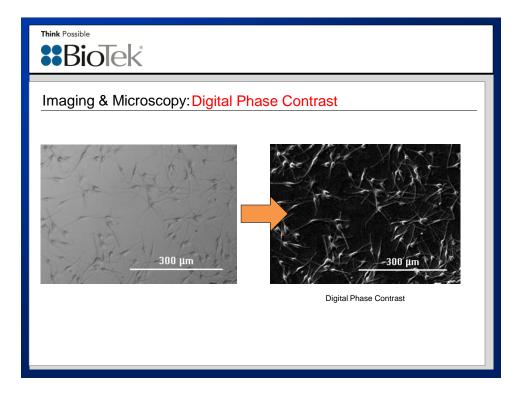




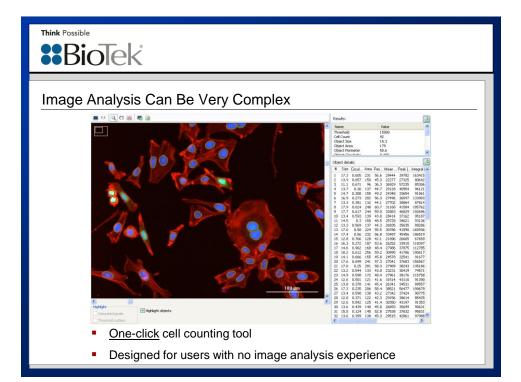


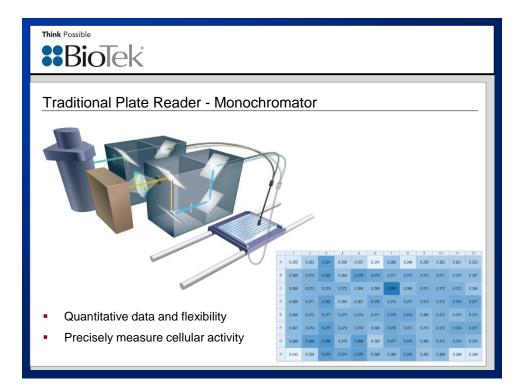






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Analyze Tool		
Analysis : Cellular Analysis Analysis setting		
Result options	and the second s	
	START Max. Object size: 100 µm Include edge objects	
A1 10x		
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4243		Cell Count 50 Object Size 30.9
		Object Area 740 +
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		# Size Circulart Area Petimet Mean Peak A y er [Blue] [Blue]
Histogram		1 13.4 0.0433 80.6 51.1 19847 2594
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Constanting of the local division of the loc		4 24.7 0.396 455 87.0 26751 3704 5 33.0 0.61 843 109.8 36052 5714
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		10 31.5 0.354 731 104.6 23984 34218 11 36.9 0.798 1.076+003 130.6 35263 6454
	200 µm	12 36.0 0.475 982 119.6 35591 5802
	Highlight	13 27.7 0.808 601 91.6 33514 5597 14 34.4 0.493 900 114.7 37166 6297
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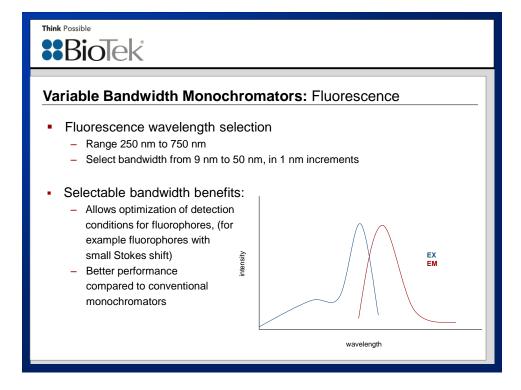


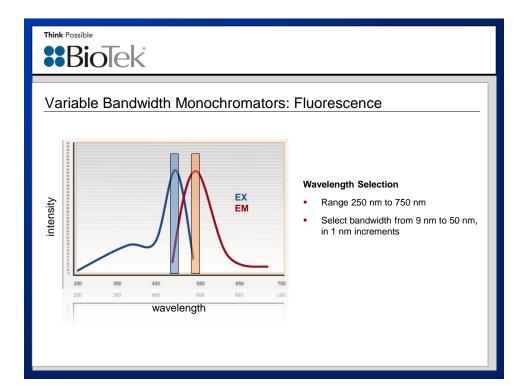


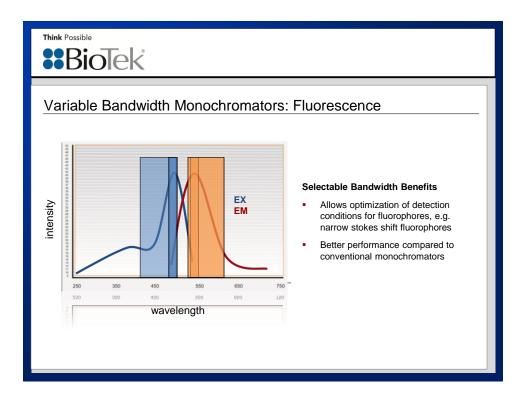
Biotek

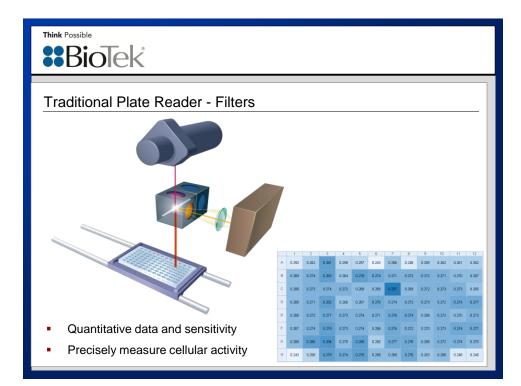
Detection mode :

- Fluorescence Intensity
- Time-Resolved Fluorescence
- Luminescence
- UV-Vis Absorbance





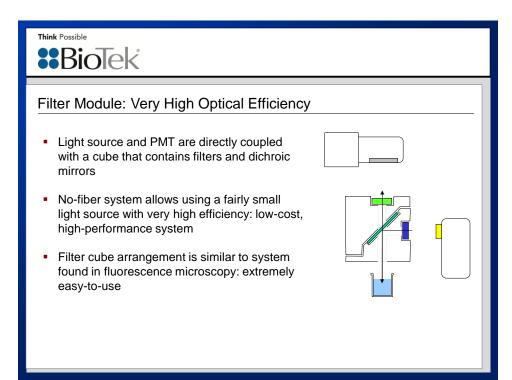


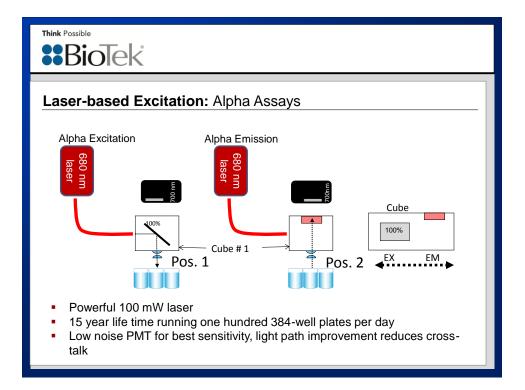


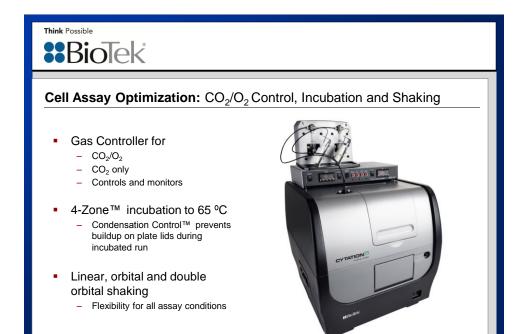
Biotek

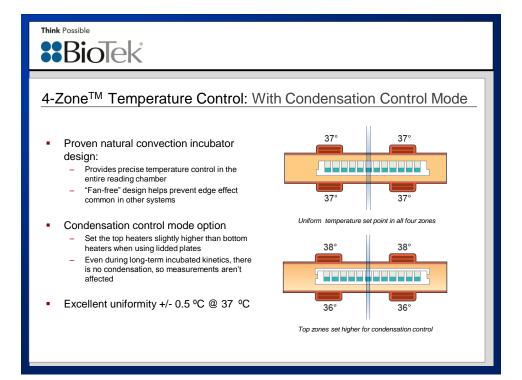
Detection mode :

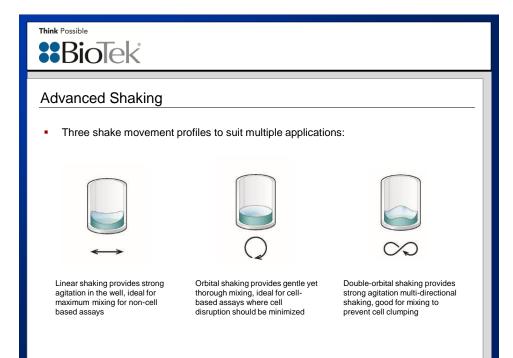
- Fluorescence Intensity
- Time-Resolved Fluorescence
- Fluorescence Polarization
- Luminescence
- Alpha Detection

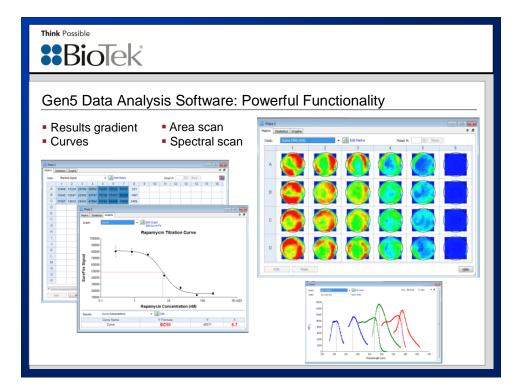


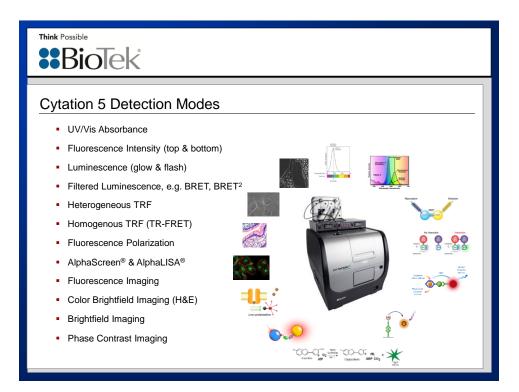












Think Possible

Examples of Absorbance Applications

Assay	Targets
AlamarBlue®	Cell Proliferation, Viability & Counting
Amplex®Red	Enzyme Activity
phosphoELISA	Kinases
Vybrant assay C12 Rezarurin	Metabolic Labeling
Vybrant MTT Cell Proliferation Assay Kit	Cell Counting
Lipid Peroxidation Assay Kit (using MDA)	Oxidative Stress
CellTiter 96® Cell Proliferation Assay (MTT)	Cell Proliferation
DC Protein, Bradford, Lowry & BCA Protein Assays	Protein Quantification
OxiSelect [™] Superoxide Dismutase Activity Assay	Oxidative Stress
Glycoprotein Carbohydrate Estimation Kit	Glycoprotein Quantification
IDEXX FlockChek [™] Avian Influenza Multi-species ELISA Assay	Avian Influenza
Melamine ELISA Assay	Food Safety
CaspACE [™] Assay	Apoptosis
Growth Assay (OD at 600nm)	Cell Growth
Haemoglobin denaturation Assay	Haemoglobin

Biotek

Examples of Fluorescence Intensity Applications

Assay	Targets
Adapta® Universal Kinase Assay	Kinases
AlamarBlue®	Cell Proliferation, Viability & Counting
Amplex®Red	Enzyme Activity
EnzCheck	Proteases
Fluo-4 AM	GPCR
LIVE/DEAD® Viability/Cytotoxicity Kit	Apoptosis
PiPer [™] Phosphate Assay Kit	Phosphatases
SYTOX® stains	Viability
Vivid [®] CYP450	Cytochrome P450
Quant-iT [™] PicoGreen [®] dsDNA Assay Kit	Nucleic Acid Quantification
Transcreener® GDP FI Assay	GTPase
FluxOR [™] Potassium Ion Channel Assay Kits	Ion Channels
OxiSelect [™] ROS Assay Kit	Oxidative Stress
CellTiter-Fluor [™] Cell Viability Assay	Cell Viability
FluoroBlok Cell Invasion Assays (using Calcein AM)	Cell Migration

Think Possible

Examples of Luminescence Applications

Assay	Targets
CellTiter-Glo® Luminescent Cell	Cell Proliferation
Dual-Luciferase [®] Reporter (DLR™) Assay	Gene Expression
P450-Glo™ Assay	CYP Activities
ADP-Glo™ Assay	Kinase
Caspase-Glo® 3/7 Assay	Apoptosis
cAMP-Glo™ Assay	GPCR
GloSensor™ cAMP Assay	GPCR
Aequorin	GPCR
ATPlite™ Luminescence Assay	Cell Proliferation/Kinases
aCella -TOX™ Bioluminescence Cytotoxicity Assay	Cell Death
ToxiLight® Non-destructive Cytotoxicity BioAssay Kit	Cell Death/Cell Proliferation
ATP quantification assay (luciferine-luciferase)	ATP Quantification
Britelite™ plus Reporter Gene Assay	Gene Expression
Steadylite plus™ Reporter Gene Assay	Gene Expression
Neolite Reporter Gene Assay	Gene Expression

Possible							
um of Targets Covered by Tir	ne-Resolve	d Fluoresce	nce & Alpha	Scree			
		TF	۲F				
	AlphaScreen	LANCE/HTRF	DELFIA				
GPCR Functional Assays: cAMP IP ₃ GTP Binding	* *		✓ ✓				
Receptor Binding Assays: GPCRs Nuclear	√ √	√ √	√ √				
Enzyme Assays: Tyrosine Kinase Serine/Threonine Kinase Phosphatase Protease Transferase Polymerase Phospholipase Helicase Phosphodiesterase	* * * * *	****	* * * *				
Protein Interactions: Protein:Protein Protein:Peptide Protein:DNA	* * *	✓ ✓	✓ ✓ ✓				
Other Functional: Cell Proliferation/Viability			✓				

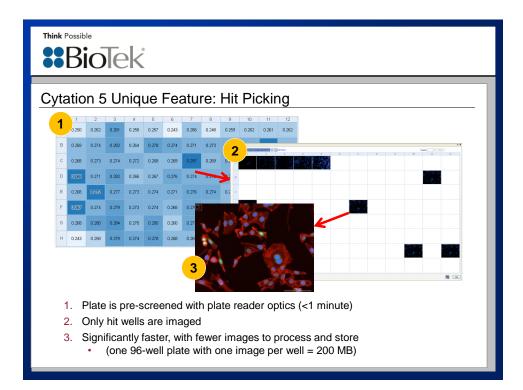
AlphaLISA Immunoassay Targets								
	Angiogenesis	Biologics & Bioprocess	Cancer	Cardiovascular				
	 EPO TNFαx (mouse) VEGF VEGFA (mouse) VEGFB VEGFC VEGFD 	CHO-P E.col/HCP IgA IgE IgG IgG NSO-P Residual Protein A	AFP MMP2 CA125 CA125 MMP3 Cspase-3 (active) MMP9 CXCL11/LTAC MMP9 EGF-R (mouse) EF00 P5A ER882 / HER2 TFF3 HGFR/-WET TIMP1	Alphe-2 macroglobulin NT-proBNP Cardiac Troponin 1 PAL-1 D-dimer PCS/9 EP0 Plasminogen ICAM-1 ReninProteinin Myeloperoxidase tPA Myoglobin				
	- Albumin Inflammation • CC12/MCP1 • IRV-q • IL1β • CC12/MCP1 • IRV-q • IL1β • CC12/MCP1 • IRV-q • IL1β (mouse) • CC13/MCP1 • IRV-q(mouse) • IL2 • CC13/MRP1a • IL10 • IL2 (mouse) • CC14/MRP1a • IL10 • IL3 • CC15/RANTES • IL12 (provise) • IL5 • COMP • IL13 • IL6 (mouse) • CC15/RANTES • IL17 • IL7 • CKC10/R0-10 • IL17 • IL8 • CKC10/R0-10		IFN-β TNFα MMP1 B-NGF	Central Nervous System				
			Metabolic Adiponectin (mouse) Advarin (mouse) Advarin (mouse) C-peptide (mouse/rat) GR-1 IGF1 IGF1 IGF2 Insuin Leptin	Amyloid β 1-15 1/6 Amyloid β 1-40 Amyloid β 1-40 Amyloid β 1-40 (High Specificity) Amyloid β 1-42 (HouseIntr) Amyloid β 1-42 Amyloid β				
			• Prolactin	Virology • HIV p24 • HIV p24 (High Sensitivity)				

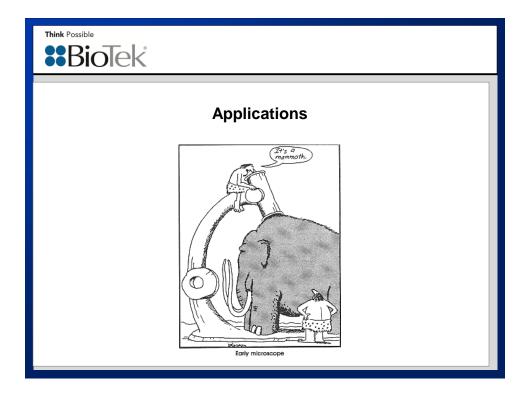
I hink Possible	
Bio Tek	

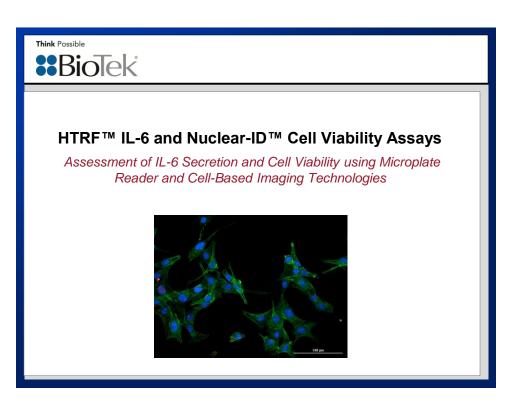
Examples of Fluorescence Polarization Applications

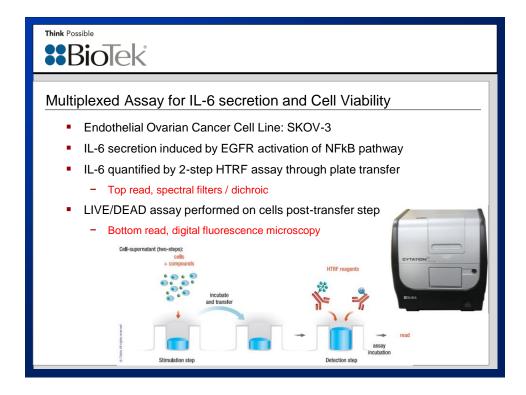
Assay	Targets
PolarScreen™	Kinases
PolarScreen [™] Competitive Binding Assays	Nuclear Receptors
Transcreener® AMP/GMP Assay	PDE's
Transcreener® GDP FP Assay	GTPase
Transcreener® UDP Assay	UDP-glycosyltransferases
Transcreener® ADP2 FP Assay	Kinases
[FP] ²	cAMP

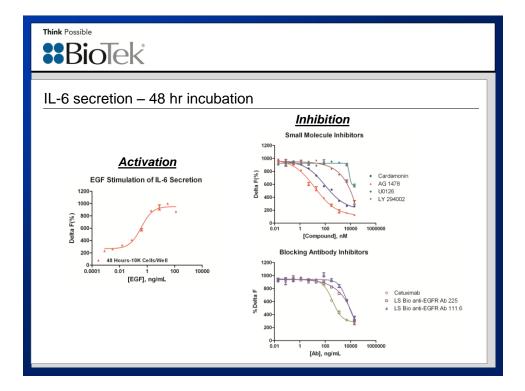
Think Possible Biotek									
Improve Sensitivity with Imaging: Plate Reader vs. Microscope									
Negative control	Positive cont	O]	Sample	1000 pm					
	Plate R PMT (Microscope CCD Camera (Cell count)						
	Well value	S/B	Well value	S/B					
Negative control	19556		1						
Positive control	45029	2.3	2668	2668					
Sample	24118	1.2	104	104					

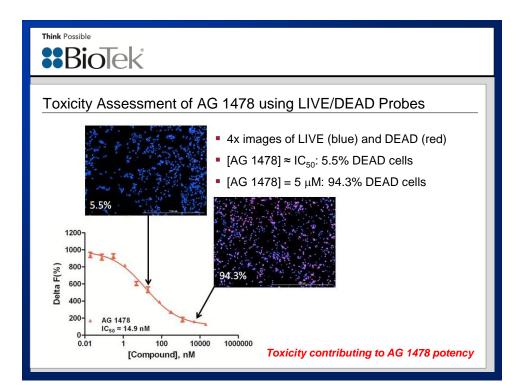


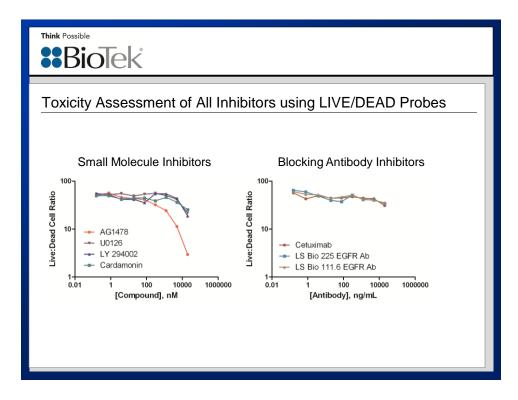


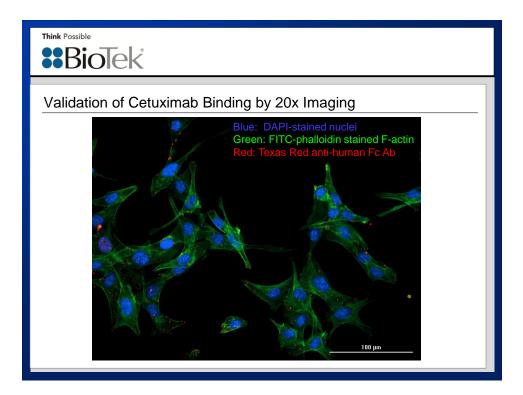


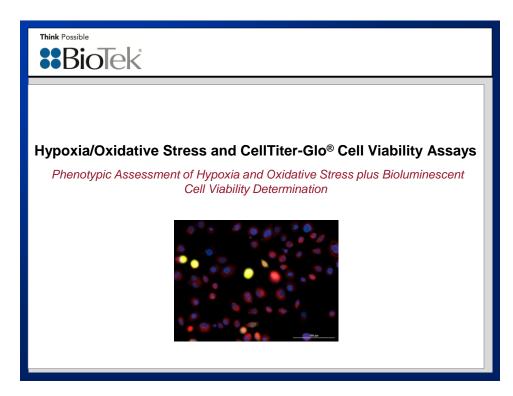




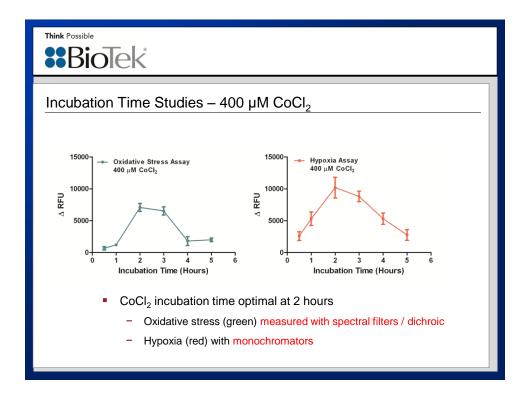


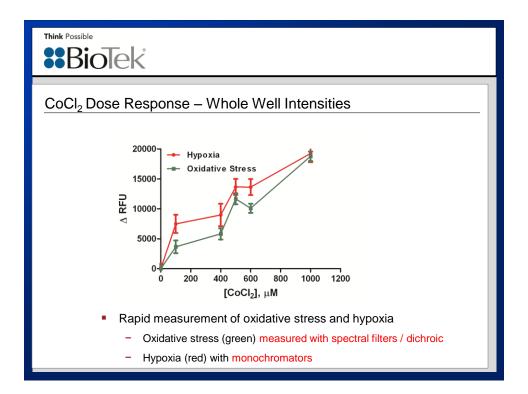


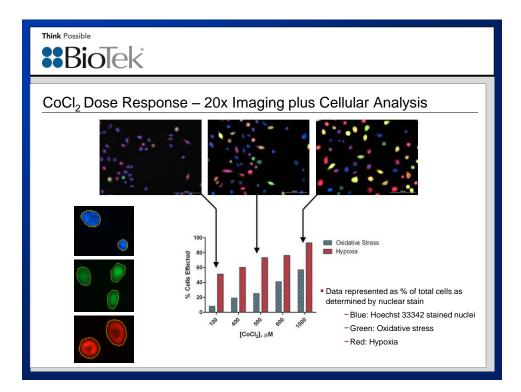




Think Possible **BioTek** Phenotypic Assay for Hypoxia / Oxidative Stress Immortalized Keratinocytes as cell model Individual fluorogenic cell permeable probes for oxidative stress and hypoxia -Oxidative stress a measure of ROS production Hypoxia a measure of nitroreductase activity -Oxidative stress / Hypoxia chemically induced by CoCl₂ Whole well fluorescence intensity measurements used for assay optimization and _ hypoxia inhibitor screening Digital fluorescence microscopy for assay & hit validation Bioluminescent reagent for cell viability Whole well luminescence measurements used to confirm true inhibition of antioxidant compounds Reagent added following microplate detection and imaging using hypoxia and oxidative stress probes

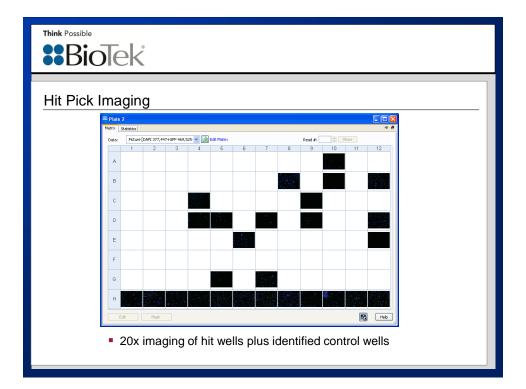


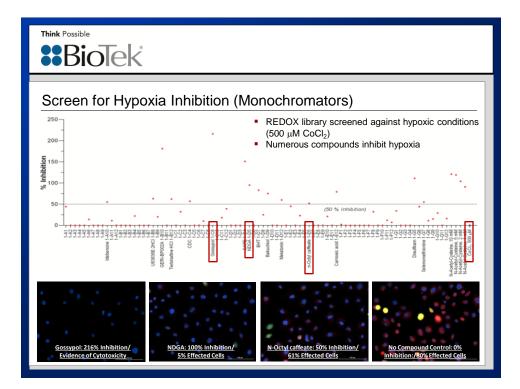


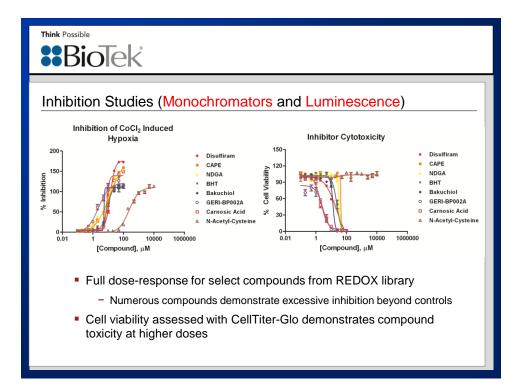


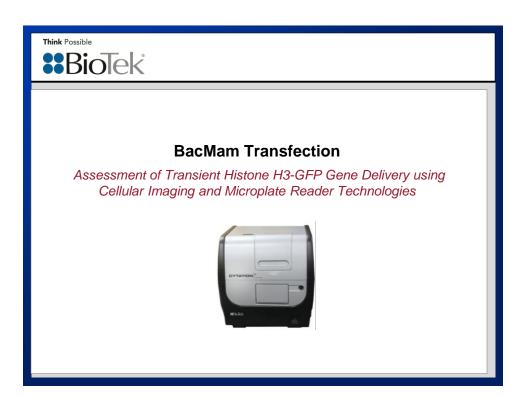
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	1 SPL1 A	2 SPL8	3 SPL15	4 SPL22	5 SPL29	6 SPL36	7 SPL43	8 SPL80	9 SPL57	10 SPU64	11 SPL71	12 SPIJ78
	8	SPL9	SPL16	SPL23	SPL30	SPL37	SPL44	SPL51	SPL58	SF1.66	SPIJ72	SPL79
	C SPL3	SPL10	SPL17	SPL24	SPL31	SPL38	SPL45	SPL52	SPI.59	SPL66	SPL73	SPLBO
	0 SPL4	SPL11	SPL18	SPL25	SPL32	SPL39	SPL46	SPL63	SPLED	SPL67	SPL74	SPL81
	E SPL5	SPL12	SPL19	SPL26	SPL33	SPL40	SPL47	SPL54	SPL61	SPU68	SPL75	SPL82
	F	SPL13	SPL20	SPL27	SPL34	SPL41	SPL48	SPL55	SPL62	SPU69	SPL76	SPL83
	6 6	SPL14	SPL21	SPI28	SPL36	SPU/2	SPL49	SPL96	SPL63	SPL70	SPL77	SPL84
	H	NACS	NAC2	NAC1	POS 500 Plus CoOl2	PCS 500 Plus CoO2	POS 500 Plus CeCI2	POS 500 Plus CoOl2	NEG 0 No CoCI2	NEG 0 No CoCI2	NEG D No CoCI2	NEG 0 No CoCl2
- 1		and co	ontrol	comp	ound	s uni	obibit	od Co	<u>CI a</u>	nd ne	nativ	e controls
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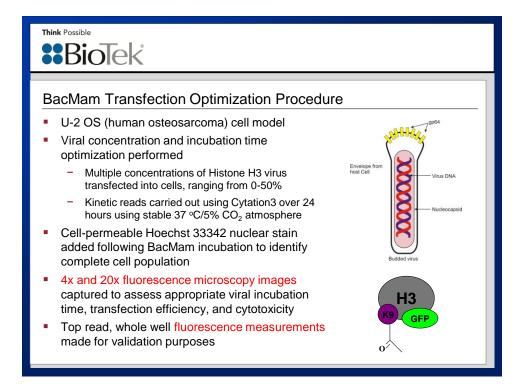
Think Possible BIOTEK	
Hit Pick Criteria ▶ Procedure - C	Hit Pick Step
Select step Actions Read Set Temperat Shake Disponse Kinetic Start Knetic Monitor Well Pause Dieley Plats Outin Starp, Resume Process Mode Hit Puble Hit Puble Hit Puble Hit Puble	Mail read day Stabilitie Hit Pick Statistic Wells to use: Hit Pick Statistic Statistic = Mean of selected wells Initus 1 statistic Define statsc Capture mage if wells Use to herey read: Use to herey read: Close Help Use to herey read: Close Help Help
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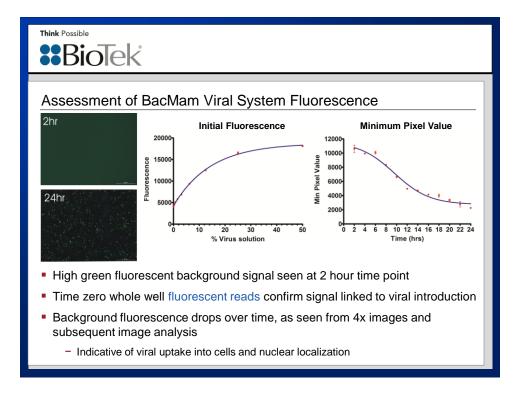


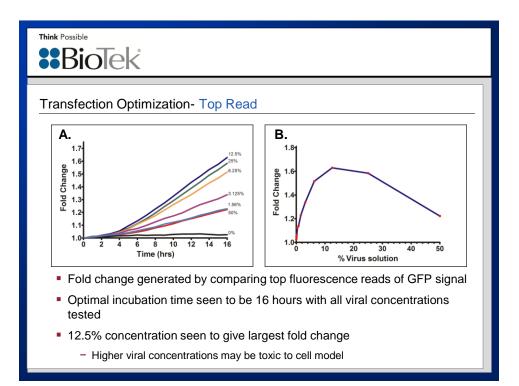


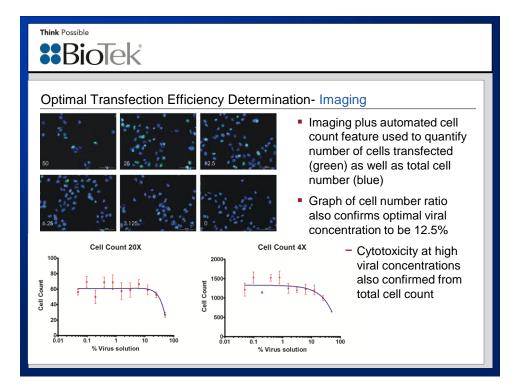


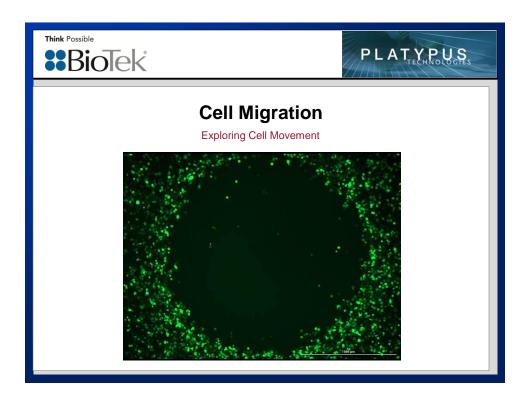


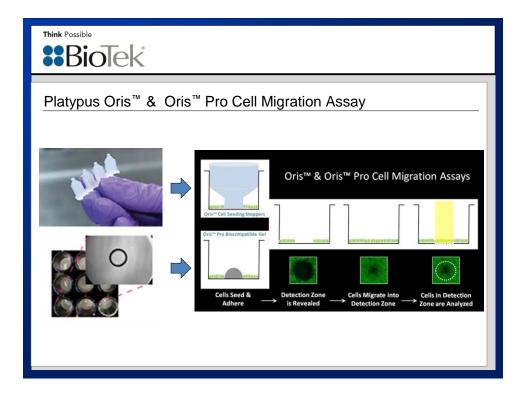
Think Possible			
BacMan	n Transfectio	n Time Cours	e Study
2hr	4hr	6hr	 U-2 OS cells infected with 7.5% virus concentration
8hr	10hr	 12hr	4x images taken every 2 hours
			 Cellular expression of GFP fusion protein visible via fluorescence as soon as 6
14hr	16hr	18hr	hours
			 Maximum expression reached between 16 and 20 hours
20hr	22hr	24hr	

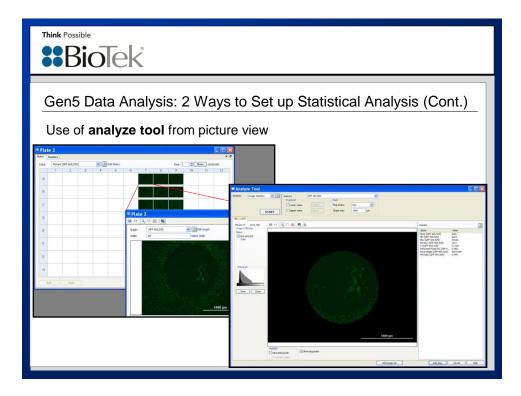


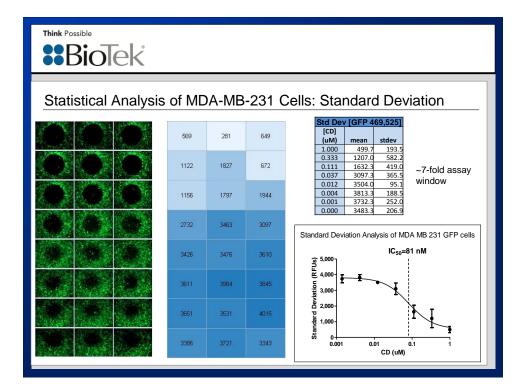


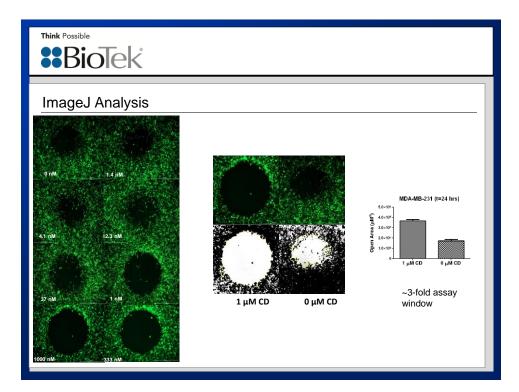


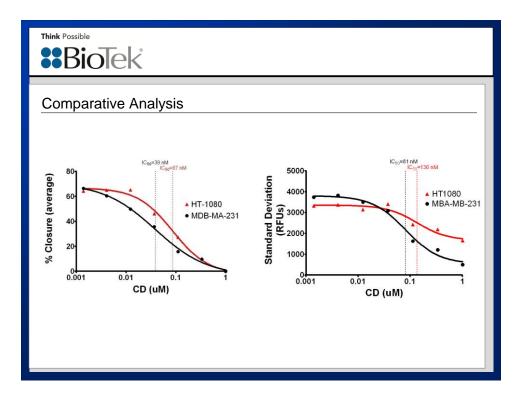


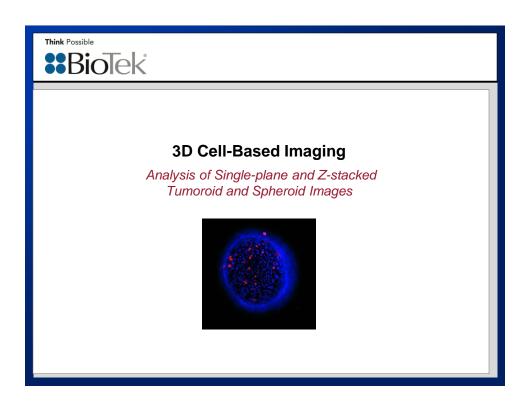












Think Possible Biotek							
3D Cell Cultu	ıre						
	Vendor	Scaffold Material	Degradable	Format			
3D Cell Culture System	venuor	Scanolu Walenai	Degradable	Format			
3D Cell Culture System Micro-tissues	InSphero AG	No	N/A	Microtissues in 96-well microplates			
-							
Micro-tissues	InSphero AG	No	N/A	Microtissues in 96-well microplates			
Micro-tissues Spheroids	InSphero AG 3-D Biomatrix	No No	N/A N/A	Microtissues in 96-well microplates Hanging drop microplates, 96-and 384-well densities			
Micro-tissues Spheroids AlgiMatrix	InSphero AG 3-D Biomatrix Life Technologies	No No Gelatin, PEG	N/A N/A Yes	Microtissues in 96-well microplates Hanging drop microplates, 96-and 384-well densities Scalable			
Micro-tissues Spheroids AlgiMatrix BD Matrigel	InSphero AG 3-D Biomatrix Life Technologies BD Biosciences	No No Gelatin, PEG Proprietary mixture	N/A N/A Yes Yes	Microtissues in 96-well microplates Hanging drop microplates, 96-and 384-well densities Scalable Scalable			

...driving for greater biological relevance in drug discovery

