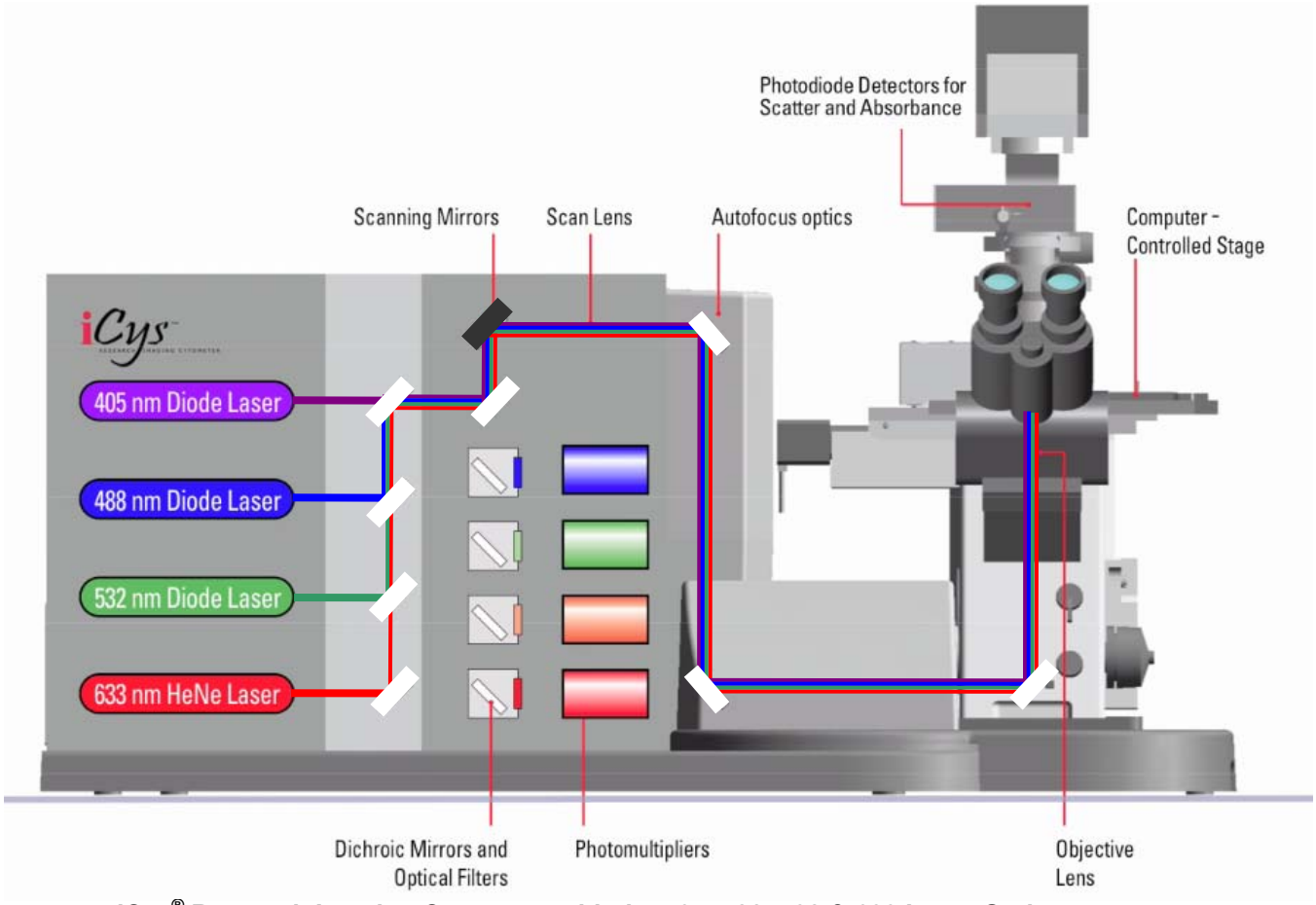
CompuCyte Introduces the New Four-Laser iGeneration Quantitative Laser Scanning Cytometer

iGeneration systems can now be configured with up to four excitation lasers to allow the use of an even broader range of fluorescent dyes.



iCys® Research Imaging Cytometer with the 405, 488, 532 & 633 Laser Option

Systems can now be configured with any combination of 4 laser lines from these six available options:

405 nm, 488 nm, 532 nm, 561 nm, 594 nm and 633 nm

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Four of these configurations, using the newly available laser lines **532, 561** and **594** are highlighted below:

Configuration A: 405, 488, 532, 633:

Laser excitation	Emission wavelength band	Typical fluorescent dyes	Typical chromatic dyes
405 nm	425-455nm (Blue)	DAPI, Hoechst 33342, Pacific Blue, Quantum Dots	DAB, Permanent red, Nova Red
	500-521nm (GFP)	Quantum Dots	
	550-600nm (Yellow)	Pacific Orange, Quantum Dots	
	650-800nm (Long Red)	Quantum Dots	
488 nm	500-521nm (GFP)	GFP, FITC, Alexa 488, Syto 16, YoPro	DAB, Permanent red, Nova Red, AEC
	550-600nm (Yellow)	Mitoshift	
532 nm	550-600nm (Yellow)	PE, Cy-3, Rhodamine dyes, Alexa 532, Mitoshift, "Fruit proteins"	Hematoxylin, BCIP
	650-800nm (Long Red)	PI, PE-Cy5	
633 nm	650-800nm (Long Red)	Cy5, Alexa 647, Alexa 633, APC, DRAQ5,	Hematoxylin, BCIP

Configuration B: 405, 488, 561, 633:

Laser excitation	Emission wavelength band	Typical fluorescent dyes	Typical chromatic dyes
405 nm	425-455nm (Blue)	DAPI, Hoechst 33342, Pacific Blue, Quantum Dots	DAB, Permanent red, Nova Red
	500-530nm (Green)	Quantum Dots	
	575-625nm (Orange)	Pacific Orange, Quantum Dots	
	650-800nm (Long Red)	Quantum Dots	
488 nm	500-530nm (Green)	FITC, Alexa 488, Syto 16, YoPro	DAB, Permanent red, Nova Red, AEC
	575-625nm (Orange)	Mitoshift	
561 nm	575-625nm (Orange)	PE, Cy-3, Alexa 568, "Fruit proteins"	Hematoxylin, BCIP
	650-800nm (Long Red)	PI, PE-Cy5	
633 nm	650-800nm (Long Red)	Cy5, Alexa 647, Alexa 633, APC, DRAQ5,	Hematoxylin, BCIP

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Configuration C: 405, 488, 594, 633:

Laser excitation	Emission wavelength band	Typical fluorescent dyes	Typical chromatic dyes
405 nm	425-455nm (Blue)	DAPI, Hoechst 33342, Pacific Blue, Quantum Dots	DAB, Permanent red, Nova Red
	500-530nm (Green)	Quantum Dots	
	600-620nm (Orange)	Pacific Orange, Q-Dots	
	650-800nm (Long Red)	Quantum Dots	
488 nm	500-530nm (Green)	FITC, Alexa 488, Syto 16, YoPro	DAB, Permanent red, Nova Red, AEC
	600-620nm (Red2)	Mitoshift	
594 nm	600-620nm (Red2)	Alexa 594, “Fruit proteins”	Hematoxylin, BCIP
	650-800nm (Long Red)	“Fruit proteins”	
633 nm	650-800nm (Long Red)	Cy5, Alexa 647, Alexa 633, APC, DRAQ5	Hematoxylin, BCIP

Configuration D: 405, 488, 532, 594:

Laser excitation	Emission wavelength band	Typical fluorescent dyes	Typical chromatic dyes
405 nm	425-455nm (Blue)	DAPI, Hoechst 33342, Pacific Blue, Quantum Dots	DAB, Permanent red, Nova Red
	500-521nm (GFP)	Quantum Dots	
	545-575 (Yellow2)	Pacific Orange, Q-Dots	
	650-800nm (Long Red)	Quantum Dots	
488 nm	500-521nm (GFP)	GFP, FITC, Alexa 488, Syto 16, YoPro	DAB, Permanent red, Nova Red, AEC
	545-575 (Yellow2)		
532 nm	545-575 (Yellow2)	PE, Cy-3, Rhodamine dyes, Alexa 532, “Fruit proteins”	Hematoxylin, BCIP
	650-800nm (Long Red)	PI, PE-Cy5, “Fruit proteins”	
594 nm	650-800nm (Long Red)	“Fruit proteins”	Hematoxylin, BCIP

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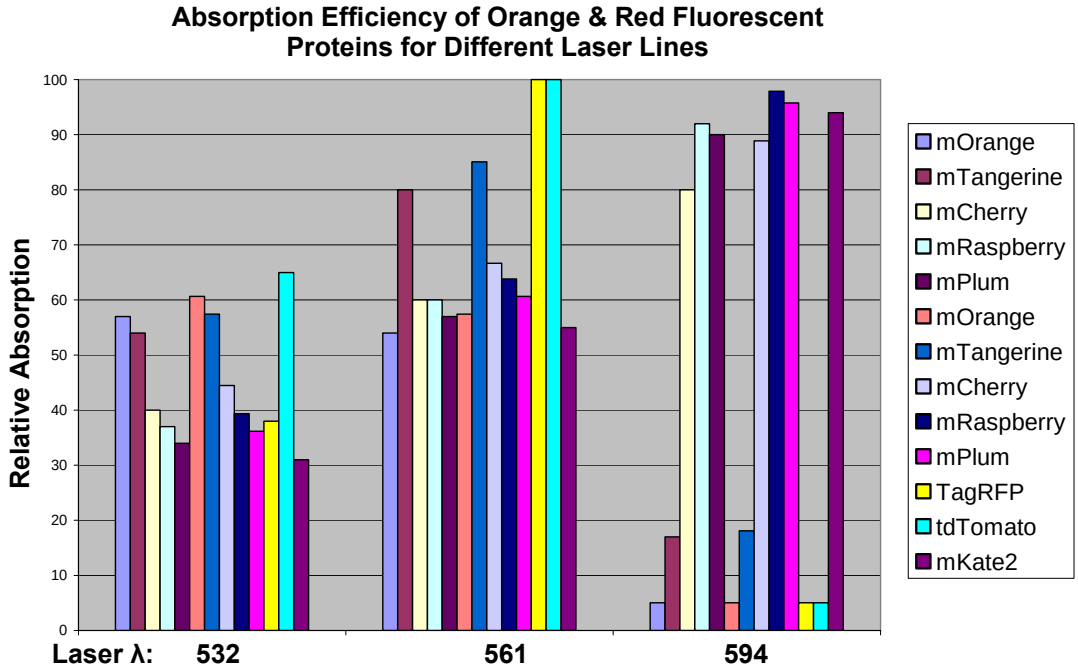
Run the "Fruit" Fluorescent Proteins

The relative excitation efficiencies of many of the new the "Fruit" Fluorescent Proteins with three of the possible fourth laser lines are shown in the graph below.



Upgrades for 3-laser systems

Get more from your existing iCyte or iCys Quantitative Imaging Cytometer: upgrade your existing system to a four-laser system. Common upgrade options include:

Existing system laser configuration	Existing system fluorescence emission filter configuration	Upgrade		Upgraded system laser configuration
		Add laser(s)	Add Emission Filter(s)	
405, 488, 633	Blue: 440/30 Green: 530/30 Orange: 580/30 Long Red: 650LP	532	GFP: 510/21 (replaces Green) Yellow: 575/50 (replaces Orange) Optional: Green2: 515/30	405, 488, **532**, 633
		561	Red: 600/50 (replaces Long Red) Optional: Red3: 625/28	405, 488, **561**, 633
		594	Red2: 610/20 (replaces Long Red)	405, 488, **594**, 633
		532 & 594	GFP: 510/21 (replaces Green) Yellow2: 560/30 (replaces Orange) Optional: Red3: 625/28	405, 488, **532**, **594**

For further information on this and other LSC systems and upgrades,
Contact us at salesinfo@compucyte.com or visit us on the web at www.compucyte.com

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