Table of Fluorochromes

This is a table of some characteristics of fluorochromes useful for flow cytometry or fluorescence microscopy. Within groups, roughly in order of excitation wavelength (families excepted). Peak excitation and emission wavelengths often vary depending on the environment in which the probe finds itself. Be sure to also look up the excitation and emission spectra for your dye of choice. Note that colors you might see with a capable browser are only a very rough approximation!

Probe	Ex (nm)	Em (nm)	MW	Notes
Nucleic acid probes				
Hoechst 33342	343	483	616	AT-selective
DAPI	345	455		AT-selective
Hoechst 33258	345	478	624	AT-selective
SYTOX Blue	431	480	~400	DNA
Chromomycin A3	445	575		CG-selective
Mithramycin	445	575		
YOYO-1	491	509	1271	
Ethidium Bromide	493	620	394	
Acridine Orange	503	530/640		DNA/RNA
SYTOX Green	504	523	~600	DNA
TOTO-1, TO-PRO-1	509	533		Vital stain, TOTO: Cyanine Dimer TO-PRO: Cyanine Monomer
Thiazole Orange	510	530		
Propidium Iodide (PI)	536	617	668.4	
LDS 751	543;*590*	712;*607*	472	DNA (543ex/712em), *RNA (590ex/607em)*
7-AAD	546	647		7-aminoactinomycin D, CG-selective
SYTOX Orange	547	570	~500	DNA
TOTO-3, TO-PRO-3	642	661		
DRAQ5	647	681,697	413	(Biostatus) (usable excitation down to 488)