

Fluorescence Filter Catalog

Fluorescence Filter	EX	EM	Excitation Peak (nm)	EX	EM
Fluorescence Filter 001	365	440	460	400	480
Fluorescence Filter 002	365	440	460	400	480
Fluorescence Filter 003	365	440	460	400	480
Fluorescence Filter 004	365	440	460	400	480
Fluorescence Filter 005	365	440	460	400	480
Fluorescence Filter 006	365	440	460	400	480
Fluorescence Filter 007	365	440	460	400	480
Fluorescence Filter 008	365	440	460	400	480
Fluorescence Filter 009	365	440	460	400	480
Fluorescence Filter 010	365	440	460	400	480
Fluorescence Filter 011	365	440	460	400	480
Fluorescence Filter 012	365	440	460	400	480
Fluorescence Filter 013	365	440	460	400	480
Fluorescence Filter 014	365	440	460	400	480
Fluorescence Filter 015	365	440	460	400	480
Fluorescence Filter 016	365	440	460	400	480
Fluorescence Filter 017	365	440	460	400	480
Fluorescence Filter 018	365	440	460	400	480
Fluorescence Filter 019	365	440	460	400	480
Fluorescence Filter 020	365	440	460	400	480
Fluorescence Filter 021	365	440	460	400	480
Fluorescence Filter 022	365	440	460	400	480
Fluorescence Filter 023	365	440	460	400	480
Fluorescence Filter 024	365	440	460	400	480
Fluorescence Filter 025	365	440	460	400	480
Fluorescence Filter 026	365	440	460	400	480
Fluorescence Filter 027	365	440	460	400	480
Fluorescence Filter 028	365	440	460	400	480
Fluorescence Filter 029	365	440	460	400	480
Fluorescence Filter 030	365	440	460	400	480
Fluorescence Filter 031	365	440	460	400	480
Fluorescence Filter 032	365	440	460	400	480
Fluorescence Filter 033	365	440	460	400	480
Fluorescence Filter 034	365	440	460	400	480
Fluorescence Filter 035	365	440	460	400	480
Fluorescence Filter 036	365	440	460	400	480
Fluorescence Filter 037	365	440	460	400	480
Fluorescence Filter 038	365	440	460	400	480
Fluorescence Filter 039	365	440	460	400	480
Fluorescence Filter 040	365	440	460	400	480
Fluorescence Filter 041	365	440	460	400	480
Fluorescence Filter 042	365	440	460	400	480
Fluorescence Filter 043	365	440	460	400	480
Fluorescence Filter 044	365	440	460	400	480
Fluorescence Filter 045	365	440	460	400	480
Fluorescence Filter 046	365	440	460	400	480
Fluorescence Filter 047	365	440	460	400	480
Fluorescence Filter 048	365	440	460	400	480
Fluorescence Filter 049	365	440	460	400	480
Fluorescence Filter 050	365	440	460	400	480
Fluorescence Filter 051	365	440	460	400	480
Fluorescence Filter 052	365	440	460	400	480
Fluorescence Filter 053	365	440	460	400	480
Fluorescence Filter 054	365	440	460	400	480
Fluorescence Filter 055	365	440	460	400	480
Fluorescence Filter 056	365	440	460	400	480
Fluorescence Filter 057	365	440	460	400	480
Fluorescence Filter 058	365	440	460	400	480
Fluorescence Filter 059	365	440	460	400	480
Fluorescence Filter 060	365	440	460	400	480
Fluorescence Filter 061	365	440	460	400	480
Fluorescence Filter 062	365	440	460	400	480
Fluorescence Filter 063	365	440	460	400	480
Fluorescence Filter 064	365	440	460	400	480
Fluorescence Filter 065	365	440	460	400	480
Fluorescence Filter 066	365	440	460	400	480
Fluorescence Filter 067	365	440	460	400	480
Fluorescence Filter 068	365	440	460	400	480
Fluorescence Filter 069	365	440	460	400	480
Fluorescence Filter 070	365	440	460	400	480
Fluorescence Filter 071	365	440	460	400	480
Fluorescence Filter 072	365	440	460	400	480
Fluorescence Filter 073	365	440	460	400	480
Fluorescence Filter 074	365	440	460	400	480
Fluorescence Filter 075	365	440	460	400	480
Fluorescence Filter 076	365	440	460	400	480
Fluorescence Filter 077	365	440	460	400	480
Fluorescence Filter 078	365	440	460	400	480
Fluorescence Filter 079	365	440	460	400	480
Fluorescence Filter 080	365	440	460	400	480
Fluorescence Filter 081	365	440	460	400	480
Fluorescence Filter 082	365	440	460	400	480
Fluorescence Filter 083	365	440	460	400	480
Fluorescence Filter 084	365	440	460	400	480
Fluorescence Filter 085	365	440	460	400	480
Fluorescence Filter 086	365	440	460	400	480
Fluorescence Filter 087	365	440	460	400	480
Fluorescence Filter 088	365	440	460	400	480
Fluorescence Filter 089	365	440	460	400	480
Fluorescence Filter 090	365	440	460	400	480
Fluorescence Filter 091	365	440	460	400	480
Fluorescence Filter 092	365	440	460	400	480
Fluorescence Filter 093	365	440	460	400	480
Fluorescence Filter 094	365	440	460	400	480
Fluorescence Filter 095	365	440	460	400	480
Fluorescence Filter 096	365	440	460	400	480
Fluorescence Filter 097	365	440	460	400	480
Fluorescence Filter 098	365	440	460	400	480
Fluorescence Filter 099	365	440	460	400	480
Fluorescence Filter 100	365	440	460	400	480

OMEGA OPTICAL: The Essence of Fluorescence. www.omegafilters.com

The Synapse Revealed

Graham Johnson, *Graham Johnson Medical Media*

Deep inside the brain, a neuron prepares to transmit a signal to its target. To capture that expectant, fleeting moment with painstaking detail, science illustrator Graham Johnson based his elegant, highly accurate drawing on ultrathin micrographs of sequential brain slices.

The brain contains billions of neurons, whose network of chemical messages form the basis for all thought, movement, and behavior. Johnson's illustration tells the story of one such signal, a synaptic millisecond that is both eye-catching and accurate in scale and shape.

Using the brain slices as references, Johnson sketched the layout of the illustration in pencil, from the convoluted labyrinth of neurons in

▶ **ILLUSTRATION**
First Place

the background to the clusters of organelles inside the neural cells. After scanning the drawing into three-dimensional modeling software, he colored the image with a palette of dreamy, underwater colors and added the bumpy, realistic texture and glowing lighting reminiscent of a scanning electron micrograph—qualities that help outline the image, pull the central neural interaction forward, and give it a stronger impact, he says.

The resulting image is a careful balance between precision and beauty. Because the original data were so complex, Johnson cut the number of neuron interactions depicted to only 30% of the original data—"otherwise, it's just a mass of spaghetti in front of you," he says.

"It gives us the information we need, but at the same time brings an aesthetic, a refinement," says panel of judges member Felice Frankel. "That's really important: to get the viewer to want to look—and then to ask questions."



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Illustration

Carolyn Gramling

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