LSM 780 laser power in µW measured in the sample plane for different settings of laser power percentage (0.2 – 50) and with different objectives (measured on 12/08/2020).

10x/0.3	405	458	488	514	561**	633
0.2	5.7	0.6	2.0	1.1	1.2	1.6
0.5	15	1.0	5.2	2.5	2.4	3.5
1	31	1.7	11	4.7	4.1	6.4
5	133	6.8	53	22	18	30
10	275	13	106	45	36	59
50	1427	68	533	223	184	298
20x/0.8	405	458	488	514	561**	633
0.2	6.3	0.7	2.6	1.5	1.7	2.2
0.5	17	1.3	6.7	3.3	3.1	4.7
1	34	2.1	14	6.2	5.6	8.7
5	146	8.5	69	30	25	40
10	303	17	137	59	49	80
50	1568	85	689	293	248	403
40x/1.3	405	458	488	514	561**	633
0.2	5.7	0.6	2.2	1.2	1.5	2.2
0.5	15	1.1	5.6	2.7	2.9	4.6
1	31	1.8	11	5.0	5.1	8.4
5	132	7.1	57	24	23	39
10	274	14	114	17	46	77
50	1410	71	569	236	229	392
63x/1.2 W	405	458	488	514	561**	633
0.2	2.3	0.3	1.0	0.6	0.7	0.9
0.5	6.2	0.5	2.6	1.2	1.2	1.8
1	13	0.8	5.3	2.3	2.2	3.4
5	55	3.3	27	11	10	16
10	114	6.4	53	22	19	31
50	592	33	267	112	100	157
63x/1.4	405	458	488	514	561**	633
0.2	3.2	0.4	2.8	0.7	0.9	1.1
0.5	8.6	0.7	4.9	1.6	1.7	2.3
1	18	1.1	8.3	3.0	3.0	4.1
5	73	4.3	36	14	14	19
10	151	8.4	71	29	27	38
50	780	43	350	143	135	194
100x/1.46*	405	458	488	514	561**	633
0.2	2.1	0.2	1.9	0.3	0.4	0.5
0.5	5.5	0.3	2.9	0.7	0.8	1.0
1	11	0.5	4.5	1.3	1.3	1.8
5	46	2.0	17	6.3	5.9	8.1
10	96	4.0	34	8.3	12	16
50	497	20	164	63	59	82

* the values are likely underestimated; the power-meter probe has limited light collection efficiency for objectives with NA > 1.4 (oil immersion).

** 561 nm laser sometimes exhibits about 3 to 3.5 times higher power; however, in most cases the power follows the values displayed here.

ELYRA laser intensity in W/cm² measured in the sample plane with the 100x TIRF objective for different settings of laser power percentage (0.2 – 100) and with the beam expander set to TIRF and 0 incidence angle (measured on 12/08/2020).

100x/1.46*	405	488	561	642
0.2	0.2	0.2	0.2	0.1
0.5	0.4	0.4	0.6	0.2
1	0.6	0.8	1.1	0.5
5	2.2	4.1	5.7	2.3
10	4.3	11	24	4.4
50	22	57	119	36
100	44	110	222	67

* the values are likely underestimated; the power-meter probe has limited light collection efficiency for objectives with NA > 1.4 (oil immersion).