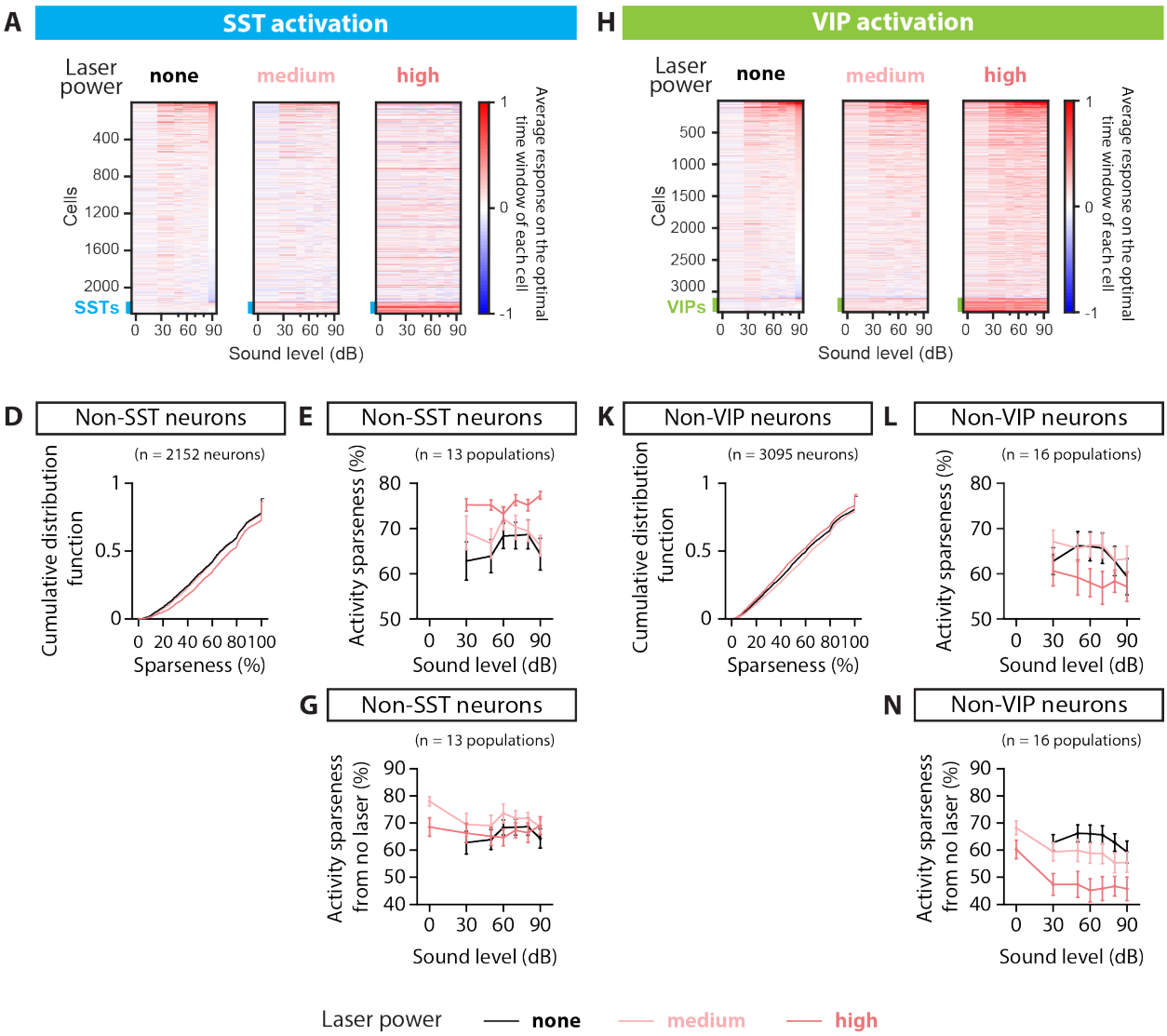
Extended Figures: Legends and statistics

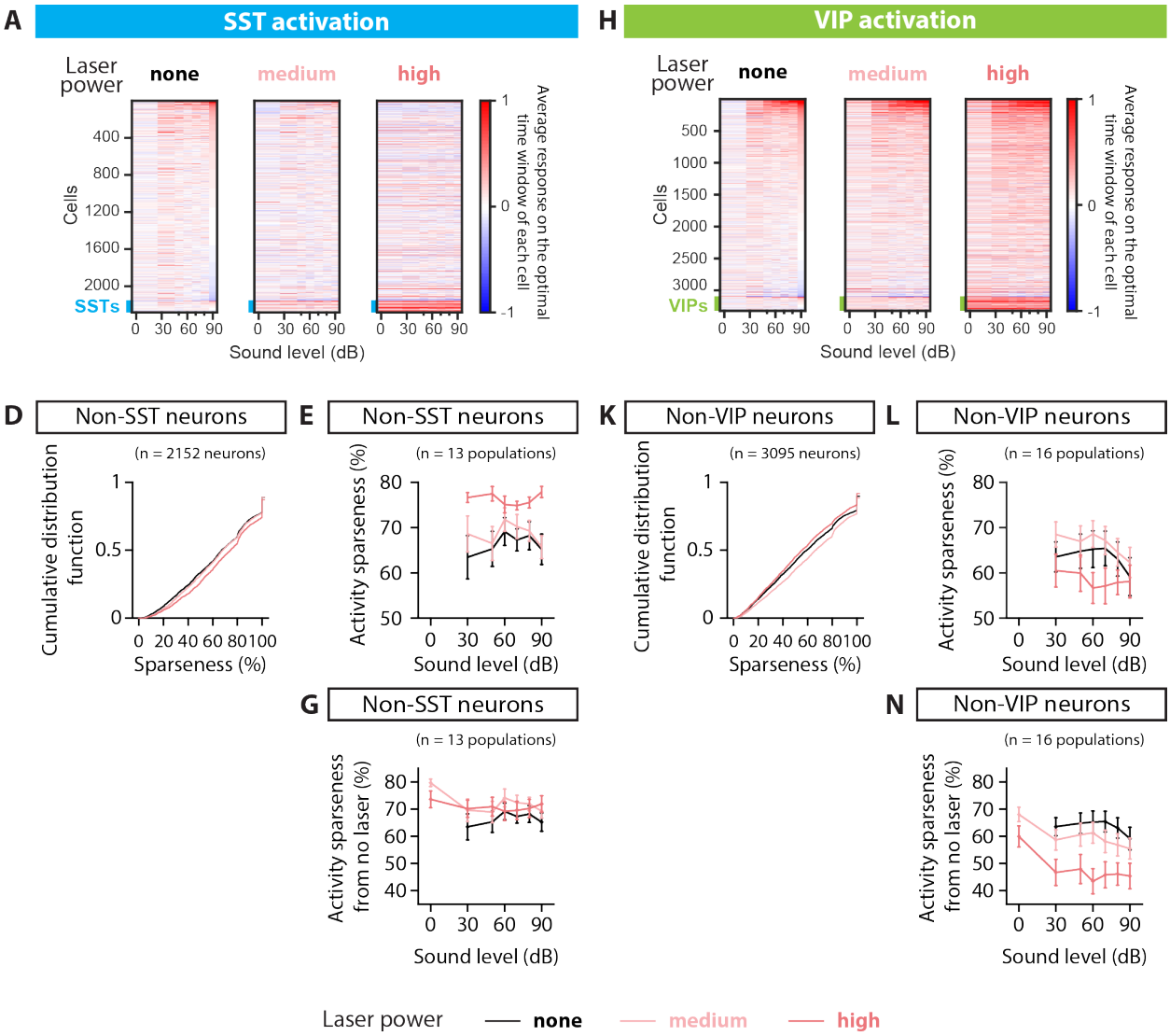


Extended Figure 2.1. Panels A, D, E, G, H, K, L, N of Figure 2 computed on a fixed [0 1] sec window instead of the optimal window.

EXTENDED FIGURE 2.1						
Sparseness with SST activation	Ext. Fig 2.2 D	None: 2020 Med: 2019 High: 1980	GLME	t_{laser}=6.01 DF = 5676	***p_{laser}=1.9e-9	h_{laser}^2=5.9e-3

Activity sparseness with SST activation	Ext. Fig 2.2 E	13 populations	GLME	t_{laser}=3.06 t_{sound}=0.93 $t_{laser:sound}$=-0.56 DF = 230	**p_{laser}=2.5e-3 p_{sound}=0.35 $p_{laser:sound}$=0.57	h_{laser}^2=0.19 h_{sound}^2=1.4e-2 $h_{laser:sound}^2$=1.2e-2
Activity sparseness from 0dB and no laser power with SST activation	Ext. Fig 2.2 G	13 populations	GLME	t_{laser}=0.31 t_{sound}=0.74 $t_{laser:sound}$=-0.23 DF = 230	p_{laser}=0.76 p_{sound}=0.46 $p_{laser:sound}$=0.82	h_{laser}^2=2.4e-3 h_{sound}^2=8.3e-3 $h_{laser:sound}^2$=2.1e-3
Sparseness with VIP activation	Ext. Fig 2.2 K	None: 2997 Med: 3002 High: 3023	GLME	t_{laser}=-3.11 DF = 8442	**p_{laser}=1.8e-3	h_{laser}^2=9.3e-4
Activity sparseness with VIP activation	Ext. Fig 2.2 L	16 populations	GLME	t_{laser}=-1.46 t_{sound}=-0.97 $t_{laser:sound}$=5.1e-4 DF = 284	p_{laser}=0.14 p_{sound}=0.33 $p_{laser:sound}$=0.99	h_{laser}^2=3.1e-2 h_{sound}^2=8.6e-3 $h_{laser:sound}^2$=6.0e-9
Activity sparseness from 0dB and no laser power with VIP activation	Ext. Fig 2.2 N	16 populations	GLME	t_{laser}=-5.54 t_{sound}=-1.45 $t_{laser:sound}$=0.58 DF = 284	***p_{laser}=7.0e-8 p_{sound}=0.15 $p_{laser:sound}$=0.56	h_{laser}^2=0.22 h_{sound}^2=1.2e-2 $h_{laser:sound}^2$=4.7e-3

Extended Table 2.1: Statistics table for extended figure panels 2.2, with the average response computed on a fixed [0-1] sec window instead of the optimal window (as in Figure 2 D, E, G, K, L, N).



Extended Figure 2.2 : Panels A, D, E, G, H, K, L, N of Figure 2 computed on the fixed sec window as described in the Methods instead of the optimal window.

EXTENDED FIGURE 2.2						
Sparseness with SST activation	Ext. Fig 2.1 D	None: 2033 Med: 2029 High: 1994	GLME	t_{laser}=5.21 DF = 5702	***p_{laser}=2.0e-7	h_{laser}^2=4.5e-3
Activity sparseness with SST activation	Ext. Fig 2.1 E	13 populations	GLME	t_{laser}=3.20 t_{sound}=0.87 $t_{laser:sound}$=-0.79	**p_{laser}=1.6e-3 p_{sound}=0.38 $p_{laser:sound}$=0.43	h_{laser}^2=0.22 h_{sound}^2=1.3e-2 $h_{laser:sound}^2$=2.5e-2

				DF = 230		
Activity sparseness from 0dB and no laser power with SST activation	Ext. Fig 2.1 G	13 populations	GLME	t_{laser}=1.39 t_{sound}=0.84 $t_{laser:sound}$=-0.48 DF = 230	p_{laser}=0.17 p_{sound}=0.40 $p_{laser:sound}$=0.63	h_{laser}^2=3.9e-2 h_{sound}^2=9.0e-3 $h_{laser:sound}^2$=7.3e-3
Sparseness with VIP activation	Ext. Fig 2.1 K	None: 2979 Med: 2921 High: 3020	GLME	t_{laser}=-2.78 DF = 8350	**p_{laser}=5.5e-3	h_{laser}^2=7.0e-4
Activity sparseness with VIP activation	Ext. Fig 2.1 L	16 populations	GLME	t_{laser}=-1.46 t_{sound}=-1.18 $t_{laser:sound}$=0.17 DF = 284	p_{laser}=0.15 p_{sound}=0.24 $p_{laser:sound}$=0.86	h_{laser}^2=2.8e-2 h_{sound}^2=1.2e-2 $h_{laser:sound}^2$=6.4e-4
Activity sparseness from 0dB and no laser power with VIP activation	Ext. Fig 2.1 N	16 populations	GLME	t_{laser}=-5.37 t_{sound}=-1.38 $t_{laser:sound}$=0.60 DF = 284	***p_{laser}=1.7e-7 p_{sound}=0.17 $p_{laser:sound}$=0.55	h_{laser}^2=0.19 h_{sound}^2=9.7e-3 $h_{laser:sound}^2$=4.6e-3

Extended Table 2.2: Statistics table for extended figure panels 2.1, with the average response computed on the fixed window as described in the Methods instead of the optimal window (as in Figure 2 D, E, G, K, L, N).