

Supplementary materials

Table 1. Regions with sufficient lesion coverage for left visual field defects.

List of number of subjects with a lesion per ROI. Only ROIs in which at least seven subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	8	24
2	MST	Medial Superior Temporal Area		8
3	V6	Sixth Visual Area		
4	V2	Second Visual Area		24
5	V3	Third Visual Area		21
6	V4	Fourth Visual Area		20
7	V8	Eighth Visual Area		
8	4	Primary Motor Cortex	10	16
9	3b	Primary Sensory Cortex		9
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		12
12	55b	Area 55b		8
13	V3A	Area V3A		8
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		7
17	IPS1	Intraparietal Sulcus Area 1		7
18	FFC	Fusiform Face Complex		7
19	V3B	Area V3B		9
20	LO1	Area Lateral Occipital 1		9
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		10
24	A1	Primary Auditory Cortex	9	15
25	PSL	Perisylvian Language Area		12
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		13
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		10
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		7
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		8
48	LIPv	Area Letral Intraparietal ventral		10
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		7
51	1	Area 1		10
52	2	Area 2	7	10
53	3a	Area 3a		17
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		12
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		13
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	8	16
74	44	Area 44		14
75	45	Area 45		12
76	47l	Area 47l		10
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	7	20
79	IFJa	Area IFJa		14
80	IFJp	Area IFJp	7	14
81	IFSp	Area IFSp		9
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		9
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		9
95	LIPd	Area Lateral Intraparietal dorsal		10
96	6a	Area 6 anterior		
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	7	17
100	OP4	Area OP4/PV	8	17
101	OP1	Area OP1/SII	8	20
102	OP2-3	Area OP2-3/V3	12	19
103	52	Area 52	9	16
104	RI	Retroinsular Cortex		13
105	PFcm	Area PFcm	9	19
106	PoI2	Posterior Insular Area 2	17	30
107	TA2	Area TA2		17
108	FOP4	Frontal OPercular Area 4	10	20
109	MI	Middle Insular Area	9	25
110	Pir	Piriform Cortex	9	18
111	AVI	Anterior Ventral Insular Area		16
112	AAIC	Anterior Agranular Insular Complex	8	16
113	FOP1	Frontal OPercular Area 1	8	18
114	FOP3	Frontal OPercular Area 3	11	23
115	FOP2	Frontal OPercular Area 2	7	18
116	PFt	Area PFt		10
117	AIP	Anterior Intraparietal Area	7	10
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		8
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		8
124	PBelt	ParaBelt Complex		17
125	A5	Auditory 5 Complex		12
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		8
128	STSda	Area STSd anterior		8
129	STSdp	Area STSd posterior		11
130	STSvp	Area STSv posterior		11
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		11
134	TE2a	Area TE1 anterior		
135	TF	Area TF		7
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT		13
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		13
140	TPOJ2	Area Temporoparietooccipital Junction 2		12
141	TPOJ3	Area Temporoparietooccipital Junction 3		11
142	DVT	Dorsal Transitional Visual Area		14
143	PGp	Area PGp		9
144	IP2	Area Intraparietal 2		12
145	IP1	Area Intraparietal 1		10
146	IP0	Area Intraparietal 0		8
147	PFop	Area PF opercular	8	14
148	PF	Area PF Complex	9	14
149	PFm	Area PFm Complex		15
150	PGi	Area PGi		14
151	PGs	Area PGs		10
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		7
157	FST	Area FST		10
158	V3CD	Area V3CD		11
159	LO3	Area Lateral Occipital 3		8
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		8
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	13	23
168	Ig	Insular Granular Complex	14	22
169	FOP5	Area Frontal Opercular 5		12
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	7	16
174	LBelt	Lateral Belt Complex		15
175	A4	Auditory 4 Complex		16
176	STSva	Area STSv anterior		7
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area		15
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 2. Regions with sufficient lesion coverage for right visual field defects.

List of number of subjects with a lesion per ROI. Only ROIs in which at least seven subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	11	16
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	9	17
5	V3	Third Visual Area	9	16
6	V4	Fourth Visual Area	7	16
7	V8	Eighth Visual Area		
8	4	Primary Motor Cortex	10	13
9	3b	Primary Sensory Cortex		
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		10
12	55b	Area 55b		
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		7
17	IPS1	Intraparietal Sulcus Area 1		7
18	FFC	Fusiform Face Complex		
19	V3B	Area V3B		8
20	LO1	Area Lateral Occipital 1		7
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		7
24	A1	Primary Auditory Cortex	10	13
25	PSL	Perisylvian Language Area		10
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		10
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		
48	LIPv	Area Letral Intraparietal ventral		8
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		
51	1	Area 1		7
52	2	Area 2	7	7
53	3a	Area 3a		14
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		10
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		12
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	8	14
74	44	Area 44		12
75	45	Area 45		10
76	47l	Area 47l		8
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	8	18
79	IFJa	Area IFJa		12
80	IFJp	Area IFJp	7	13
81	IFSp	Area IFSp		7
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		8
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		7
95	LIPd	Area Lateral Intraparietal dorsal		8
96	6a	Area 6 anterior		
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	7	15
100	OP4	Area OP4/PV	8	14
101	OP1	Area OP1/SII	8	17
102	OP2-3	Area OP2-3/V3	12	17
103	52	Area 52	10	14
104	RI	Retroinsular Cortex		11
105	PFcm	Area PFcm	9	16
106	PoI2	Posterior Insular Area 2	18	28
107	TA2	Area TA2		15
108	FOP4	Frontal OPercular Area 4	10	18
109	MI	Middle Insular Area	9	23
110	Pir	Piriform Cortex	10	16
111	AVI	Anterior Ventral Insular Area		14
112	AAIC	Anterior Agranular Insular Complex	8	14
113	FOP1	Frontal OPercular Area 1	8	16
114	FOP3	Frontal OPercular Area 3	11	21
115	FOP2	Frontal OPercular Area 2	7	16
116	PFt	Area PFt		7
117	AIP	Anterior Intraparietal Area	7	7
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus	7	
121	ProS	Prostriate Area		
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		
124	PBelt	ParaBelt Complex		15
125	A5	Auditory 5 Complex		10
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		
128	STSda	Area STSd anterior		
129	STSdp	Area STSd posterior		9
130	STSvp	Area STSv posterior		9
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		9
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT		10
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		10
140	TPOJ2	Area Temporoparietooccipital Junction 2		9
141	TPOJ3	Area Temporoparietooccipital Junction 3		8
142	DVT	Dorsal Transitional Visual Area	7	10
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2		9
145	IP1	Area Intraparietal 1		8
146	IP0	Area Intraparietal 0		7
147	PFop	Area PF opercular	8	11
148	PF	Area PF Complex	9	11
149	PFm	Area PFm Complex		12
150	PGi	Area PGI		11
151	PGs	Area PGs		8
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2	7	
156	V4t	Area V4t		
157	FST	Area FST		7
158	V3CD	Area V3CD		9
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	14	21
168	Ig	Insular Granular Complex	14	20
169	FOP5	Area Frontal Opercular 5		10
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	8	14
174	LBelt	Lateral Belt Complex	7	13
175	A4	Auditory 4 Complex		14
176	STSva	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area		13
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 3. Regions with sufficient lesion coverage for location perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least nine subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	13	28
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	11	26
5	V3	Third Visual Area	10	23
6	V4	Fourth Visual Area		25
7	V8	Eighth Visual Area		10
8	4	Primary Motor Cortex	12	18
9	3b	Primary Sensory Cortex		12
10	FEF	Frontal Eye Fields		9
11	PEF	Premotor Eye Fields		15
12	55b	Area 55b		12
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		9
17	IPS1	Intraparietal Sulcus Area 1		
18	FFC	Fusiform Face Complex		
19	V3B	Area V3B		9
20	LO1	Area Lateral Occipital 1		10
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	14	15
25	PSL	Perisylvian Language Area		11
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		11
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		
48	LIPv	Area Letral Intraparietal ventral		11
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		9
51	1	Area 1		10
52	2	Area 2	11	10
53	3a	Area 3a		16
54	6d	Dorsal Area 6		9
55	6mp	Area 6mp		
56	6v	Ventral Area 6		13
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		16
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	9	20
74	44	Area 44	9	19
75	45	Area 45		12
76	47l	Area 47l		12
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	10	21
79	IFJa	Area IFJa		16
80	IFJp	Area IFJp	9	15
81	IFSp	Area IFSp		12
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		11
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		11
95	LIPd	Area Lateral Intraparietal dorsal		11
96	6a	Area 6 anterior		10
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	10	20
100	OP4	Area OP4/PV	10	18
101	OP1	Area OP1/SII	14	19
102	OP2-3	Area OP2-3/V3	16	22
103	52	Area 52	12	16
104	RI	Retroinsular Cortex		15
105	PFcm	Area PFcm	16	18
106	PoI2	Posterior Insular Area 2	26	33
107	TA2	Area TA2		17
108	FOP4	Frontal OPercular Area 4	14	21
109	MI	Middle Insular Area	16	27
110	Pir	Piriform Cortex	16	20
111	AVI	Anterior Ventral Insular Area		17
112	AAIC	Anterior Agranular Insular Complex	12	18
113	FOP1	Frontal OPercular Area 1	11	21
114	FOP3	Frontal OPercular Area 3	15	24
115	FOP2	Frontal OPercular Area 2	9	21
116	PFt	Area PFt		11
117	AIP	Anterior Intraparietal Area	9	11
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		
124	PBelt	ParaBelt Complex	9	18
125	A5	Auditory 5 Complex		11
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		
128	STSda	Area STSd anterior		9
129	STSdp	Area STSd posterior		10
130	STSvp	Area STSv posterior		11
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		10
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT	9	13
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		11
140	TPOJ2	Area Temporoparietooccipital Junction 2		11
141	TPOJ3	Area Temporoparietooccipital Junction 3		10
142	DVT	Dorsal Transitional Visual Area		15
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2	10	12
145	IP1	Area Intraparietal 1		11
146	IP0	Area Intraparietal 0		9
147	PFop	Area PF opercular	11	13
148	PF	Area PF Complex	12	12
149	PFm	Area PFm Complex	10	15
150	PGi	Area PGi	11	11
151	PGs	Area PGs		9
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		
157	FST	Area FST		9
158	V3CD	Area V3CD		11
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		10
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	23	26
168	Ig	Insular Granular Complex	18	25
169	FOP5	Area Frontal Opercular 5		13
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	9	16
174	LBelt	Lateral Belt Complex	10	14
175	A4	Auditory 4 Complex	10	16
176	STSva	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	9	15
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 4. Regions with sufficient lesion coverage for shape perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least nine subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	13	31
2	MST	Medial Superior Temporal Area		9
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	11	28
5	V3	Third Visual Area	10	26
6	V4	Fourth Visual Area		27
7	V8	Eighth Visual Area		11
8	4	Primary Motor Cortex	12	22
9	3b	Primary Sensory Cortex		14
10	FEF	Frontal Eye Fields		11
11	PEF	Premotor Eye Fields		16
12	55b	Area 55b		14
13	V3A	Area V3A		9
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		9
16	V7	Seventh Visual		10
17	IPS1	Intraparietal Sulcus Area 1		9
18	FFC	Fusiform Face Complex		10
19	V3B	Area V3B		10
20	LO1	Area Lateral Occipital 1		11
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		9
24	A1	Primary Auditory Cortex	15	18
25	PSL	Perisylvian Language Area	9	13
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		12
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		9
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		9
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC	9	10
48	LIPv	Area Letral Intraparietal ventral	9	13
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		11
51	1	Area 1		12
52	2	Area 2	11	12
53	3a	Area 3a		20
54	6d	Dorsal Area 6		10
55	6mp	Area 6mp		
56	6v	Ventral Area 6		15
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		17
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C		21
74	44	Area 44	9	20
75	45	Area 45		13
76	47l	Area 47l		14
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	10	23
79	IFJa	Area IFJa		17
80	IFJp	Area IFJp	9	17
81	IFSp	Area IFSp		13
82	IFSa	Area IFSa		9
83	p9-46v	Area posterior 9-46v		12
84	46	Area 46		9
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		13
95	LIPd	Area Lateral Intraparietal dorsal		13
96	6a	Area 6 anterior		12
97	i6-8	Inferior 6-8 Transitional Area		9
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	10	21
100	OP4	Area OP4/PV	11	20
101	OP1	Area OP1/SII	15	22
102	OP2-3	Area OP2-3/V3	17	25
103	52	Area 52	13	19
104	RI	Retroinsular Cortex	9	18
105	PFcm	Area PFcm	17	21
106	PoI2	Posterior Insular Area 2	27	36
107	TA2	Area TA2		20
108	FOP4	Frontal OPercular Area 4	16	23
109	MI	Middle Insular Area	17	29
110	Pir	Piriform Cortex	17	22
111	AVI	Anterior Ventral Insular Area		18
112	AAIC	Anterior Agranular Insular Complex	13	20
113	FOP1	Frontal OPercular Area 1	11	23
114	FOP3	Frontal OPercular Area 3	15	27
115	FOP2	Frontal OPercular Area 2	9	24
116	PFt	Area PFt		13
117	AIP	Anterior Intraparietal Area	10	13
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		11
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		
124	PBelt	ParaBelt Complex	9	21
125	A5	Auditory 5 Complex		13
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		9
128	STSda	Area STSd anterior		10
129	STSdp	Area STSd posterior		12
130	STSvp	Area STSv posterior		12
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		11
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT	9	14
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		13
140	TPOJ2	Area Temporoparietooccipital Junction 2		12
141	TPOJ3	Area Temporoparietooccipital Junction 3		
142	DVT	Dorsal Transitional Visual Area		
143	PGp	Area PGp		11
144	IP2	Area Intraparietal 2	11	
145	IP1	Area Intraparietal 1		
146	IP0	Area Intraparietal 0		
147	PFop	Area PF opercular	12	17
148	PF	Area PF Complex	13	
149	PFm	Area PFm Complex	11	9
150	PGi	Area PGi	11	14
151	PGs	Area PGs		12
152	V6A	Area V6A		10
153	VMV1	Ventromedial Visual Area 1		16
154	VMV3	Ventromedial Visual Area 3		15
155	PHA2	Parahippocampal Area 2		17
156	V4t	Area V4t		12
157	FST	Area FST		10
158	V3CD	Area V3CD		9
159	LO3	Area Lateral Occipital 3		10
160	VMV2	Ventromedial Visual Area 2		12
161	31pd	Area 31pd		12
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		
164	25	Area 25		29
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	24	28
168	Ig	Insular Granular Complex	19	14
169	FOP5	Area Frontal Opercular 5		
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	10	19
174	LBelt	Lateral Belt Complex	11	16
175	A4	Auditory 4 Complex	10	19
176	STSva	Area STSv anterior		9
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	9	17
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 5. Regions with sufficient lesion coverage for texture perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least eight subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	13	23
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	11	22
5	V3	Third Visual Area	11	18
6	V4	Fourth Visual Area		21
7	V8	Eighth Visual Area		8
8	4	Primary Motor Cortex	9	14
9	3b	Primary Sensory Cortex		9
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		12
12	55b	Area 55b		10
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		8
17	IPS1	Intraparietal Sulcus Area 1		
18	FFC	Fusiform Face Complex		
19	V3B	Area V3B		8
20	LO1	Area Lateral Occipital 1		8
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	11	12
25	PSL	Perisylvian Language Area		10
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		9
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		
48	LIPv	Area Letral Intraparietal ventral		8
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		
51	1	Area 1		8
52	2	Area 2	8	8
53	3a	Area 3a		11
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		9
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		14
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	9	17
74	44	Area 44	8	15
75	45	Area 45		10
76	47l	Area 47l		11
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	9	16
79	IFJa	Area IFJa	8	12
80	IFJp	Area IFJp	8	12
81	IFSp	Area IFSp		11
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		9
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		10
95	LIPd	Area Lateral Intraparietal dorsal		8
96	6a	Area 6 anterior		8
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	8	14
100	OP4	Area OP4/PV		13
101	OP1	Area OP1/SII	10	14
102	OP2-3	Area OP2-3/V3	12	17
103	52	Area 52	10	13
104	RI	Retroinsular Cortex		13
105	PFcm	Area PFcm	11	14
106	PoI2	Posterior Insular Area 2	21	28
107	TA2	Area TA2		14
108	FOP4	Frontal OPercular Area 4	13	18
109	MI	Middle Insular Area	14	23
110	Pir	Piriform Cortex	15	18
111	AVI	Anterior Ventral Insular Area		15
112	AAIC	Anterior Agranular Insular Complex	12	16
113	FOP1	Frontal OPercular Area 1	10	17
114	FOP3	Frontal OPercular Area 3	12	21
115	FOP2	Frontal OPercular Area 2		16
116	PFt	Area PFt		10
117	AIP	Anterior Intraparietal Area		8
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		
124	PBelt	ParaBelt Complex		16
125	A5	Auditory 5 Complex		9
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		
128	STSda	Area STSd anterior		
129	STSdp	Area STSd posterior		8
130	STSvp	Area STSv posterior		9
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		8
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT	9	11
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		9
140	TPOJ2	Area Temporoparietooccipital Junction 2		9
141	TPOJ3	Area Temporoparietooccipital Junction 3		
142	DVT	Dorsal Transitional Visual Area		12
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2	8	9
145	IP1	Area Intraparietal 1		9
146	IP0	Area Intraparietal 0		8
147	PFop	Area PF opercular		12
148	PF	Area PF Complex	8	10
149	PFm	Area PFm Complex	9	13
150	PGi	Area PGI	10	8
151	PGs	Area PGs		
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		
157	FST	Area FST		
158	V3CD	Area V3CD		9
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	19	22
168	Ig	Insular Granular Complex	14	20
169	FOP5	Area Frontal Opercular 5		12
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex		14
174	LBelt	Lateral Belt Complex		12
175	A4	Auditory 4 Complex		14
176	STSva	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	9	12
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 6. Regions with sufficient lesion coverage for contrast perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least eight subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	10	25
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area		23
5	V3	Third Visual Area		20
6	V4	Fourth Visual Area		23
7	V8	Eighth Visual Area		9
8	4	Primary Motor Cortex	10	15
9	3b	Primary Sensory Cortex		9
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		13
12	55b	Area 55b		10
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		8
16	V7	Seventh Visual		8
17	IPS1	Intraparietal Sulcus Area 1		
18	FFC	Fusiform Face Complex		
19	V3B	Area V3B		8
20	LO1	Area Lateral Occipital 1		9
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	12	13
25	PSL	Perisylvian Language Area	8	10
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		9
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		8
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC	8	
48	LIPv	Area Letral Intraparietal ventral	8	9
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		8
51	1	Area 1		8
52	2	Area 2	9	8
53	3a	Area 3a		12
54	6d	Dorsal Area 6		8
55	6mp	Area 6mp		
56	6v	Ventral Area 6		11
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		13
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C		18
74	44	Area 44	8	17
75	45	Area 45		11
76	47l	Area 47l		11
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	8	18
79	IFJa	Area IFJa		14
80	IFJp	Area IFJp		13
81	IFSp	Area IFSp		11
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		10
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		10
95	LIPd	Area Lateral Intraparietal dorsal		9
96	6a	Area 6 anterior	8	8
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	8	17
100	OP4	Area OP4/PV	8	16
101	OP1	Area OP1/SII	10	16
102	OP2-3	Area OP2-3/V3	13	19
103	52	Area 52	11	15
104	RI	Retroinsular Cortex		13
105	PFcm	Area PFcm	10	15
106	PoI2	Posterior Insular Area 2	20	31
107	TA2	Area TA2		15
108	FOP4	Frontal OPercular Area 4	13	20
109	MI	Middle Insular Area	14	26
110	Pir	Piriform Cortex	13	19
111	AVI	Anterior Ventral Insular Area		16
112	AAIC	Anterior Agranular Insular Complex	10	17
113	FOP1	Frontal OPercular Area 1	10	19
114	FOP3	Frontal OPercular Area 3	13	23
115	FOP2	Frontal OPercular Area 2		19
116	PFt	Area PFt		10
117	AIP	Anterior Intraparietal Area	8	9
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		8
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		8
124	PBelt	ParaBelt Complex		17
125	A5	Auditory 5 Complex		10
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		8
128	STSda	Area STSd anterior		8
129	STSdp	Area STSd posterior		9
130	STSvp	Area STSv posterior		10
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		9
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT		12
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		10
140	TPOJ2	Area Temporoparietooccipital Junction 2		9
141	TPOJ3	Area Temporoparietooccipital Junction 3		8
142	DVT	Dorsal Transitional Visual Area		13
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2	9	10
145	IP1	Area Intraparietal 1		10
146	IP0	Area Intraparietal 0		8
147	PFop	Area PF opercular		12
148	PF	Area PF Complex	9	10
149	PFm	Area PFm Complex	10	13
150	PGi	Area PGi	10	8
151	PGs	Area PGs		8
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		
157	FST	Area FST		8
158	V3CD	Area V3CD		10
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		9
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	17	24
168	Ig	Insular Granular Complex	15	23
169	FOP5	Area Frontal Opercular 5		12
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	9	16
174	LBelt	Lateral Belt Complex	8	12
175	A4	Auditory 4 Complex	8	14
176	STSva	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	9	14
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 7. Regions with sufficient lesion coverage for glossiness perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least seven subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	7	19
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	7	19
5	V3	Third Visual Area	7	17
6	V4	Fourth Visual Area		18
7	V8	Eighth Visual Area		7
8	4	Primary Motor Cortex	7	13
9	3b	Primary Sensory Cortex		
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		9
12	55b	Area 55b		7
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		
17	IPS1	Intraparietal Sulcus Area 1		
18	FFC	Fusiform Face Complex		
19	V3B	Area V3B		7
20	LO1	Area Lateral Occipital 1		7
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	10	10
25	PSL	Perisylvian Language Area	7	9
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		8
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		
48	LIPv	Area Letral Intraparietal ventral		
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		
51	1	Area 1		
52	2	Area 2	7	
53	3a	Area 3a		11
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		7
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av	7	9
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	8	12
74	44	Area 44	8	13
75	45	Area 45		8
76	47l	Area 47l		9
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	7	15
79	IFJa	Area IFJa	7	9
80	IFJp	Area IFJp		9
81	IFSp	Area IFSp		8
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		7
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		8
95	LIPd	Area Lateral Intraparietal dorsal		
96	6a	Area 6 anterior		
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	7	13
100	OP4	Area OP4/PV		12
101	OP1	Area OP1/SII	9	13
102	OP2-3	Area OP2-3/V3	11	15
103	52	Area 52	9	12
104	RI	Retroinsular Cortex	7	11
105	PFcm	Area PFcm	10	14
106	PoI2	Posterior Insular Area 2	19	27
107	TA2	Area TA2		14
108	FOP4	Frontal OPercular Area 4	13	17
109	MI	Middle Insular Area	12	21
110	Pir	Piriform Cortex	13	16
111	AVI	Anterior Ventral Insular Area	7	13
112	AAIC	Anterior Agranular Insular Complex	10	14
113	FOP1	Frontal OPercular Area 1	10	15
114	FOP3	Frontal OPercular Area 3	11	20
115	FOP2	Frontal OPercular Area 2		14
116	PFt	Area PFt		8
117	AIP	Anterior Intraparietal Area		7
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		7
124	PBelt	ParaBelt Complex		15
125	A5	Auditory 5 Complex		9
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		
128	STSda	Area STSd anterior		7
129	STSdp	Area STSd posterior		8
130	STSvp	Area STSv posterior		9
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		8
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT		11
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		9
140	TPOJ2	Area Temporoparietooccipital Junction 2		8
141	TPOJ3	Area Temporoparietooccipital Junction 3		7
142	DVT	Dorsal Transitional Visual Area		9
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2	7	8
145	IP1	Area Intraparietal 1		7
146	IP0	Area Intraparietal 0		
147	PFop	Area PF opercular		11
148	PF	Area PF Complex	8	9
149	PFm	Area PFm Complex	8	11
150	PGi	Area PGI	8	7
151	PGs	Area PGs		7
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		
157	FST	Area FST		7
158	V3CD	Area V3CD		8
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		7
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	16	20
168	Ig	Insular Granular Complex	13	17
169	FOP5	Area Frontal Opercular 5		10
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	7	13
174	LBelt	Lateral Belt Complex		10
175	A4	Auditory 4 Complex	7	13
176	STSva	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	8	11
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 8. Regions with sufficient lesion coverage for color perception

List of number of subjects with a lesion per ROI. Only ROIs in which at least eight subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	12	25
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	9	24
5	V3	Third Visual Area	9	22
6	V4	Fourth Visual Area		21
7	V8	Eighth Visual Area		9
8	4	Primary Motor Cortex	12	14
9	3b	Primary Sensory Cortex		10
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		12
12	55b	Area 55b		8
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		9
17	IPS1	Intraparietal Sulcus Area 1		9
18	FFC	Fusiform Face Complex		9
19	V3B	Area V3B		8
20	LO1	Area Lateral Occipital 1		
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		8
24	A1	Primary Auditory Cortex	13	15
25	PSL	Perisylvian Language Area	8	11
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		11
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		8
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC	9	8
48	LIPv	Area Letral Intraparietal ventral	9	10
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		8
51	1	Area 1		9
52	2	Area 2	11	10
53	3a	Area 3a		14
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		12
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		12
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C		16
74	44	Area 44	8	15
75	45	Area 45		9
76	47l	Area 47l		9
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	9	18
79	IFJa	Area IFJa		15
80	IFJp	Area IFJp	8	14
81	IFSp	Area IFSp		10
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		8
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		9
95	LIPd	Area Lateral Intraparietal dorsal		10
96	6a	Area 6 anterior	8	
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	10	17
100	OP4	Area OP4/PV	11	16
101	OP1	Area OP1/SII	13	18
102	OP2-3	Area OP2-3/V3	15	19
103	52	Area 52	11	16
104	RI	Retroinsular Cortex		15
105	PFcm	Area PFcm	15	18
106	PoI2	Posterior Insular Area 2	24	29
107	TA2	Area TA2		15
108	FOP4	Frontal OPercular Area 4	14	17
109	MI	Middle Insular Area	16	23
110	Pir	Piriform Cortex	15	18
111	AVI	Anterior Ventral Insular Area	8	14
112	AAIC	Anterior Agranular Insular Complex	12	16
113	FOP1	Frontal OPercular Area 1	11	
114	FOP3	Frontal OPercular Area 3	14	
115	FOP2	Frontal OPercular Area 2	9	
116	PFt	Area PFT	8	
117	AIP	Anterior Intraparietal Area	9	
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus	8	
121	ProS	Prostriate Area		
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa	
124	PBelt	ParaBelt Complex	9
125	A5	Auditory 5 Complex	
126	PHA1	Parahippocampal Area 1	
127	PHA3	Parahippocampal Area 3	
128	STSda	Area STSd anterior	
129	STSdp	Area STSd posterior	
130	STSvp	Area STSv posterior	
131	TGd	Area TG dorsal	
132	TE1a	Area TE1 anterior	
133	TE1p	Area TE1 posterior	
134	TE2a	Area TE1 anterior	
135	TF	Area TF	
136	TE2p	Area TE2 posterior	
137	PHT	Area PHT	8
138	PH	Area PH	
139	TPOJ1	Area Temporoparietooccipital Junction 1	
140	TPOJ2	Area Temporoparietooccipital Junction 2	8
141	TPOJ3	Area Temporoparietooccipital Junction 3	
142	DVT	Dorsal Transitional Visual Area	
143	PGp	Area PGp	
144	IP2	Area Intraparietal 2	10
145	IP1	Area Intraparietal 1	
146	IP0	Area Intraparietal 0	
147	PFop	Area PF opercular	12
148	PF	Area PF Complex	12
149	PFm	Area PFm Complex	10
150	PGi	Area PGi	9
151	PGs	Area PGs	
152	V6A	Area V6A	
153	VMV1	Ventromedial Visual Area 1	
154	VMV3	Ventromedial Visual Area 3	
155	PHA2	Parahippocampal Area 2	
156	V4t	Area V4t	
157	FST	Area FST	8
158	V3CD	Area V3CD	
159	LO3	Area Lateral Occipital 3	
160	VMV2	Ventromedial Visual Area 2	
161	31pd	Area 31pd	
162	31a	Area 31a	
163	VVC	Ventral Visual Complex	
164	25	Area 25	
165	s32	Area s32	
166	pOFC	Posterior OFC Complex	
167	PoI1	Area Posterior Insular 1	20
168	Ig	Insular Granular Complex	17
169	FOP5	Area Frontal Opercular 5	
170	p10p	Area posterior 10p	
171	p47r	Area posterior 47r	
172	TGv	Area TG ventral	
173	MBelt	Medial Belt Complex	8
174	LBelt	Lateral Belt Complex	9
175	A4	Auditory 4 Complex	9
176	STSva	Area STSv anterior	
177	TE1m	Area TE1 Middle	
178	PI	Para-Insular Area	
179	a32pr	Area anterior 32 prime	
180	p24	Area posterior 24	

Table 9. Regions with sufficient lesion coverage for coherent motion perception.

List of number of subjects with a lesion per ROI. Only ROIs in which at least six subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	9	20
2	MST	Medial Superior Temporal Area		
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	6	18
5	V3	Third Visual Area	6	16
6	V4	Fourth Visual Area		15
7	V8	Eighth Visual Area		7
8	4	Primary Motor Cortex	10	11
9	3b	Primary Sensory Cortex		7
10	FEF	Frontal Eye Fields		
11	PEF	Premotor Eye Fields		9
12	55b	Area 55b		
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		6
16	V7	Seventh Visual		6
17	IPS1	Intraparietal Sulcus Area 1		6
18	FFC	Fusiform Face Complex		7
19	V3B	Area V3B		
20	LO1	Area Lateral Occipital 1		
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	6	11
25	PSL	Perisylvian Language Area		9
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		8
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		7
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		6
48	LIPv	Area Letral Intraparietal ventral	6	8
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		6
51	1	Area 1		7
52	2	Area 2	7	7
53	3a	Area 3a		11
54	6d	Dorsal Area 6		
55	6mp	Area 6mp		
56	6v	Ventral Area 6		9

57	p24pr	Area Posterior 24 prime		
58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		8
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C	6	12
74	44	Area 44		12
75	45	Area 45		8
76	47l	Area 47l		7
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	6	14
79	IFJa	Area IFJa		12
80	IFJp	Area IFJp	6	10
81	IFSp	Area IFSp		9
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		7
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		7
95	LIPd	Area Lateral Intraparietal dorsal		8
96	6a	Area 6 anterior	7	
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	7	14
100	OP4	Area OP4/PV	7	14
101	OP1	Area OP1/SII		14
102	OP2-3	Area OP2-3/V3	8	15
103	52	Area 52	7	13
104	RI	Retroinsular Cortex		11
105	PFcm	Area PFcm		13
106	PoI2	Posterior Insular Area 2	14	25
107	TA2	Area TA2		12
108	FOP4	Frontal Opercular Area 4	9	16
109	MI	Middle Insular Area	10	20
110	Pir	Piriform Cortex	10	16
111	AVI	Anterior Ventral Insular Area		13
112	AAIC	Anterior Agranular Insular Complex	8	14
113	FOP1	Frontal Opercular Area 1	8	15
114	FOP3	Frontal Opercular Area 3	10	17
115	FOP2	Frontal Opercular Area 2	6	16
116	PFt	Area Pft		8
117	AIP	Anterior Intraparietal Area		8
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		7

122	PeEc	Perirhinal Ectorhinal Cortex		
123	STGa	Area STGa		6
124	Pbelt	ParaBelt Complex		12
125	A5	Auditory 5 Complex		7
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		8
128	STSda	Area STSd anterior		6
129	STSdp	Area STSd posterior		8
130	STSVp	Area STSv posterior		8
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		7
134	TE2a	Area TE1 anterior		
135	TF	Area TF		6
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT		9
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		7
140	TPOJ2	Area Temporoparietooccipital Junction 2	6	8
141	TPOJ3	Area Temporoparietooccipital Junction 3		7
142	DVT	Dorsal Transitional Visual Area		11
143	PGp	Area PGp		6
144	IP2	Area Intraparietal 2		8
145	IP1	Area Intraparietal 1		7
146	IP0	Area Intraparietal 0		
147	Pfop	Area PF opercular		10
148	PF	Area PF Complex		7
149	PFm	Area PFm Complex		10
150	Pgi	Area Pgi	6	7
151	PGs	Area PGs		6
152	V6A	AreaV6A		
153	VMV1	Ventromedial Visual Area 1		6
154	VMV3	Ventromedial Visual Area 3		7
155	PHA2	Parahippocampal Area 2		6
156	V4t	Area V4t		
157	FST	Area FST		6
158	V3CD	Area V3CD		
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		6
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		9
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	11	20
168	Ig	Insular Granular Complex	10	19
169	FOP5	Area Frontal Opercular 5		9
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	Mbelt	Medial Belt Complex		12
174	Lbelt	Lateral Belt Complex		10
175	A4	Auditory 4 Complex		10
176	STSVa	Area STSv anterior		
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area		12
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 10. Regions with sufficient lesion coverage for orientation perception

List of number of subjects with a lesion per ROI. Only ROIs in which at least nine subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex		28
2	MST	Medial Superior Temporal Area	13	
3	V6	Sixth Visual Area		
4	V2	Second Visual Area	11	28
5	V3	Third Visual Area	10	26
6	V4	Fourth Visual Area		27
7	V8	Eighth Visual Area		11
8	4	Primary Motor Cortex	12	20
9	3b	Primary Sensory Cortex		13
10	FEF	Frontal Eye Fields		10
11	PEF	Premotor Eye Fields		16
12	55b	Area 55b		13
13	V3A	Area V3A		
14	RSC	RetroSplenial Complex		
15	POS2	Parieto-Occipital Sulcus Area 2		
16	V7	Seventh Visual		9
17	IPS1	Intraparietal Sulcus Area 1		9
18	FFC	Fusiform Face Complex		10
19	V3B	Area V3B		10
20	LO1	Area Lateral Occipital 1		10
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex	13	16
25	PSL	Perisylvian Language Area		12
26	SFL	Superior Frontal Language Area		
27	PCV	Precuneus Visual Area		
28	STV	Superior Temporal Visual Area		10
29	7Pm	Medial Area 7P		
30	7m	Area 7m		
31	POS1	Parieto-Occipital Sulcus Area 1		
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral		
36	5m	Area 5m		
37	5mv	Area 5m ventral		
38	23c	Area 23c		
39	5L	Area 5L		
40	24dd	Dorsal Area 24d		
41	24dv	Ventral Area 24d		
42	7AL	Lateral Area 7A		9
43	SCEF	Supplementary and Cingulate Eye Field		
44	6ma	Area 6m anterior		
45	7Am	Medial Area 7A		
46	7PL	Lateral Area 7P		
47	7PC	Area 7PC		10
48	LIPv	Area Letral Intraparietal ventral		13
49	VIP	Ventral Intraparietal Complex		
50	MIP	Medial Intraparietal Area		11
51	1	Area 1		11
52	2	Area 2	10	12
53	3a	Area 3a		18
54	6d	Dorsal Area 6		9
55	6mp	Area 6mp		
56	6v	Ventral Area 6		14
57	p24pr	Area Posterior 24 prime		

58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime		
61	a24	Area 24a		
62	d32	Area dorsal 32		
63	8BM	Area 8BM		
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av		17
68	8Ad	Area 8Ad		
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		
71	9p	Area 9 Posterior		
72	10d	Area 10d		
73	8C	Area 8C		21
74	44	Area 44	9	19
75	45	Area 45		13
76	47l	Area 47l		13
77	a47r	Area anterior 47r		
78	6r	Rostral Area 6	10	23
79	IFJa	Area IFJa		17
80	IFJp	Area IFJp	9	17
81	IFSp	Area IFSp		12
82	IFSa	Area IFSa		
83	p9-46v	Area posterior 9-46v		11
84	46	Area 46		
85	a9-46v	Area anterior 9-46v		
86	9-46d	Area 9-46d		
87	9a	Area 9 anterior		
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		
91	11l	Area 11l		
92	13l	Area 13l		
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s		12
95	LIPd	Area Lateral Intraparietal dorsal		13
96	6a	Area 6 anterior		11
97	i6-8	Inferior 6-8 Transitional Area		
98	s6-8	Superior 6-8 Transitional Area		
99	43	Area 43	10	20
100	OP4	Area OP4/PV	11	19
101	OP1	Area OP1/SII	12	20
102	OP2-3	Area OP2-3/V3	15	23
103	52	Area 52	12	17
104	RI	Retroinsular Cortex		16
105	PFcm	Area PFcm	13	19
106	PoI2	Posterior Insular Area 2	23	33
107	TA2	Area TA2		17
108	FOP4	Frontal OPercular Area 4	13	22
109	MI	Middle Insular Area	14	28
110	Pir	Piriform Cortex	16	21
111	AVI	Anterior Ventral Insular Area		18
112	AAIC	Anterior Agranular Insular Complex	12	19
113	FOP1	Frontal OPercular Area 1	11	22
114	FOP3	Frontal OPercular Area 3	14	26
115	FOP2	Frontal OPercular Area 2		23
116	PFt	Area PFt		12
117	AIP	Anterior Intraparietal Area	9	13
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum		
120	H	Hippocampus		
121	ProS	Prostriate Area		9
122	PeEc	Perirhinal Ectorhinal Cortex		

123	STGa	Area STGa		
124	PBelt	ParaBelt Complex		19
125	A5	Auditory 5 Complex		11
126	PHA1	Parahippocampal Area 1		
127	PHA3	Parahippocampal Area 3		9
128	STSda	Area STSd anterior		
129	STSdp	Area STSd posterior		11
130	STSvp	Area STSv posterior		11
131	TGd	Area TG dorsal		
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior		10
134	TE2a	Area TE1 anterior		
135	TF	Area TF		
136	TE2p	Area TE2 posterior		
137	PHT	Area PHT	9	12
138	PH	Area PH		
139	TPOJ1	Area Temporoparietooccipital Junction 1		11
140	TPOJ2	Area Temporoparietooccipital Junction 2		10
141	TPOJ3	Area Temporoparietooccipital Junction 3		9
142	DVT	Dorsal Transitional Visual Area		14
143	PGp	Area PGp		
144	IP2	Area Intraparietal 2	9	14
145	IP1	Area Intraparietal 1		12
146	IP0	Area Intraparietal 0		9
147	PFop	Area PF opercular	9	15
148	PF	Area PF Complex	9	13
149	PFm	Area PFm Complex	9	17
150	PGi	Area PGI	9	11
151	PGs	Area PGs		10
152	V6A	Area V6A		
153	VMV1	Ventromedial Visual Area 1		
154	VMV3	Ventromedial Visual Area 3		9
155	PHA2	Parahippocampal Area 2		
156	V4t	Area V4t		
157	FST	Area FST		
158	V3CD	Area V3CD		12
159	LO3	Area Lateral Occipital 3		
160	VMV2	Ventromedial Visual Area 2		
161	31pd	Area 31pd		
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		12
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		
167	PoI1	Area Posterior Insular 1	20	27
168	Ig	Insular Granular Complex	16	26
169	FOP5	Area Frontal Opercular 5		14
170	p10p	Area posterior 10p		
171	p47r	Area posterior 47r		
172	TGv	Area TG ventral		
173	MBelt	Medial Belt Complex	9	18
174	LBelt	Lateral Belt Complex	9	14
175	A4	Auditory 4 Complex		17
176	STSva	Area STSv anterior		15
177	TE1m	Area TE1 Middle		
178	PI	Para-Insular Area	9	
179	a32pr	Area anterior 32 prime		
180	p24	Area posterior 24		

Table 11. Regions with sufficient lesion coverage for left visual field defects (disconnectome maps).

List of number of subjects with a lesion per ROI. Only ROIs in which at least seven subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	51	35
2	MST	Medial Superior Temporal Area		26
3	V6	Sixth Visual Area	34	28
4	V2	Second Visual Area	46	46
5	V3	Third Visual Area	24	36
6	V4	Fourth Visual Area	13	36
7	V8	Eighth Visual Area		
8	4	Primary Motor Cortex	34	46
9	3b	Primary Sensory Cortex	26	32
10	FEF	Frontal Eye Fields	11	28
11	PEF	Premotor Eye Fields	15	32
12	55b	Area 55b	25	34
13	V3A	Area V3A	9	23
14	RSC	RetroSplenial Complex	60	39
15	POS2	Parieto-Occipital Sulcus Area 2	11	15
16	V7	Seventh Visual		13
17	IPS1	Intraparietal Sulcus Area 1		14
18	FFC	Fusiform Face Complex	21	18
19	V3B	Area V3B		20
20	LO1	Area Lateral Occipital 1		9
21	LO2	Area Lateral Occipital 2		7
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		9
24	A1	Primary Auditory Cortex		30
25	PSL	Perisylvian Language Area	8	15
26	SFL	Superior Frontal Language Area	37	28
27	PCV	Precuneus Visual Area	21	12
28	STV	Superior Temporal Visual Area	7	30
29	7Pm	Medial Area 7P	15	13
30	7m	Area 7m	10	8
31	POS1	Parieto-Occipital Sulcus Area 1	39	34
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral	13	
36	5m	Area 5m	17	12
37	5mv	Area 5m ventral	18	20
38	23c	Area 23c	16	8
39	5L	Area 5L	17	17
40	24dd	Dorsal Area 24d	15	15
41	24dv	Ventral Area 24d	16	
42	7AL	Lateral Area 7A	14	23
43	SCEF	Supplementary and Cingulate Eye Field	40	30
44	6ma	Area 6m anterior	25	40
45	7Am	Medial Area 7A	14	15
46	7PL	Lateral Area 7P	7	11
47	7PC	Area 7PC	11	19
48	LIPv	Area Letral Intraparietal ventral	9	32
49	VIP	Ventral Intraparietal Complex	13	18
50	MIP	Medial Intraparietal Area	8	15
51	1	Area 1	11	26
52	2	Area 2	19	35
53	3a	Area 3a	23	42
54	6d	Dorsal Area 6	17	30
55	6mp	Area 6mp	29	35
56	6v	Ventral Area 6	11	29

57	p24pr	Area Posterior 24 prime		
58	33pr	Area 33 prime		
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime	13	
61	a24	Area 24a		
62	d32	Area dorsal 32	14	
63	8BM	Area 8BM	30	15
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av	19	29
68	8Ad	Area 8Ad	10	32
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		18
71	9p	Area 9 Posterior		22
72	10d	Area 10d		
73	8C	Area 8C	29	42
74	44	Area 44	15	31
75	45	Area 45	15	31
76	47l	Area 47l	16	26
77	a47r	Area anterior 47r	9	26
78	6r	Rostral Area 6	19	33
79	IFJa	Area IFJa	15	30
80	IFJp	Area IFJp	13	30
81	IFSp	Area IFSp	15	28
82	IFSa	Area IFSa	10	39
83	p9-46v	Area posterior 9-46v		23
84	46	Area 46		17
85	a9-46v	Area anterior 9-46v		12
86	9-46d	Area 9-46d		13
87	9a	Area 9 anterior		16
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		11
91	11l	Area 11l	7	30
92	13l	Area 13l		23
93	OFC	Orbital Frontal Complex		7
94	47s	Area 47s	7	15
95	LIPd	Area Lateral Intraparietal dorsal		17
96	6a	Area 6 anterior	17	40
97	i6-8	Inferior 6-8 Transitional Area	9	23
98	s6-8	Superior 6-8 Transitional Area		19
99	43	Area 43	13	32
100	OP4	Area OP4/PV	19	30
101	OP1	Area OP1/SII	23	31
102	OP2-3	Area OP2-3/V3	25	35
103	52	Area 52	9	25
104	RI	Retroinsular Cortex	27	37
105	PFcm	Area PFcm	16	33
106	PoI2	Posterior Insular Area 2	17	64
107	TA2	Area TA2		
108	FOP4	Frontal OPercular Area 4	28	36
109	MI	Middle Insular Area		35
110	Pir	Piriform Cortex	7	30
111	AVI	Anterior Ventral Insular Area	7	45
112	AAIC	Anterior Agranular Insular Complex	7	29
113	FOP1	Frontal OPercular Area 1	18	26
114	FOP3	Frontal OPercular Area 3	23	36
115	FOP2	Frontal OPercular Area 2	25	32
116	PFt	Area PFt	12	17
117	AIP	Anterior Intraparietal Area	7	13
118	EC	Entorhinal Cortex		
119	PreS	Presubiculum	12	20
120	H	Hippocampus	23	11
121	ProS	Prostriate Area	42	36

122	PeEc	Perirhinal Ectorhinal Cortex	15	23
123	STGa	Area STGa		11
124	PBelt	ParaBelt Complex	15	21
125	A5	Auditory 5 Complex	23	29
126	PHA1	Parahippocampal Area 1	15	26
127	PHA3	Parahippocampal Area 3	18	9
128	STSda	Area STSd anterior	13	30
129	STSdp	Area STSd posterior	24	29
130	STSvp	Area STSv posterior		15
131	TGd	Area TG dorsal	10	16
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior	20	34
134	TE2a	Area TE1 anterior		9
135	TF	Area TF	29	39
136	TE2p	Area TE2 posterior	23	38
137	PHT	Area PHT	15	24
138	PH	Area PH	22	27
139	TPOJ1	Area Temporoparietooccipital Junction 1		28
140	TPOJ2	Area Temporoparietooccipital Junction 2		31
141	TPOJ3	Area Temporoparietooccipital Junction 3	9	13
142	DVT	Dorsal Transitional Visual Area	41	40
143	PGp	Area PGp		12
144	IP2	Area Intraparietal 2	10	15
145	IP1	Area Intraparietal 1	10	20
146	IP0	Area Intraparietal 0		12
147	PFop	Area PF opercular	10	17
148	PF	Area PF Complex	13	15
149	PFm	Area PFm Complex	9	19
150	PGi	Area PGI	7	17
151	PGs	Area PGs	7	21
152	V6A	AreaV6A		10
153	VMV1	Ventromedial Visual Area 1		12
154	VMV3	Ventromedial Visual Area 3	10	11
155	PHA2	Parahippocampal Area 2		19
156	V4t	Area V4t		10
157	FST	Area FST		28
158	V3CD	Area V3CD		14
159	LO3	Area Lateral Occipital 3		13
160	VMV2	Ventromedial Visual Area 2	22	11
161	31pd	Area 31pd	21	7
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		7
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex		7
167	PoI1	Area Posterior Insular 1	15	67
168	Ig	Insular Granular Complex	23	36
169	FOP5	Area Frontal Opercular 5	26	43
170	p10p	Area posterior 10p		17
171	p47r	Area posterior 47r	8	21
172	TGv	Area TG ventral		11
173	MBelt	Medial Belt Complex	9	22
174	LBelt	Lateral Belt Complex	19	32
175	A4	Auditory 4 Complex		19
176	STSva	Area STSv anterior		25
177	TE1m	Area TE1 Middle		14
178	PI	Para-Insular Area	8	47
179	a32pr	Area anterior 32 prime	8	
180	p24	Area posterior 24		

Table 12. Regions with sufficient lesion coverage for right visual field defects (disconnectome maps).

List of number of subjects with a lesion per ROI. Only ROIs in which at least seven subjects had a lesion were included in the atlas-based LSM analyses.

GLASSER atlas			Left	Right
1	V1	Primary Visual Cortex	49	33
2	MST	Medial Superior Temporal Area		23
3	V6	Sixth Visual Area	32	21
4	V2	Second Visual Area	46	44
5	V3	Third Visual Area	24	29
6	V4	Fourth Visual Area	19	29
7	V8	Eighth Visual Area		
8	4	Primary Motor Cortex	32	43
9	3b	Primary Sensory Cortex	24	29
10	FEF	Frontal Eye Fields	11	25
11	PEF	Premotor Eye Fields	15	29
12	55b	Area 55b	24	31
13	V3A	Area V3A	11	16
14	RSC	RetroSplenial Complex	59	37
15	POS2	Parieto-Occipital Sulcus Area 2	12	12
16	V7	Seventh Visual		10
17	IPS1	Intraparietal Sulcus Area 1		12
18	FFC	Fusiform Face Complex	23	14
19	V3B	Area V3B		14
20	LO1	Area Lateral Occipital 1		7
21	LO2	Area Lateral Occipital 2		
22	PIT	Posterior Inferotemporal Complex		
23	MT	Middle Temporal Area		
24	A1	Primary Auditory Cortex		27
25	PSL	Perisylvian Language Area	9	12
26	SFL	Superior Frontal Language Area	36	26
27	PCV	Precuneus Visual Area	19	10
28	STV	Superior Temporal Visual Area	8	27
29	7Pm	Medial Area 7P	14	13
30	7m	Area 7m	10	8
31	POS1	Parieto-Occipital Sulcus Area 1	39	29
32	23d	Area 23d		
33	v23ab	Area ventral 23 a+b		
34	d23ab	Area dorsal 23 a+b		
35	31pv	Area 31p ventral	12	
36	5m	Area 5m	15	11
37	5mv	Area 5m ventral	16	18
38	23c	Area 23c	14	7
39	5L	Area 5L	15	15
40	24dd	Dorsal Area 24d	14	14
41	24dv	Ventral Area 24d	15	
42	7AL	Lateral Area 7A	13	20
43	SCEF	Supplementary and Cingulate Eye Field	38	29
44	6ma	Area 6m anterior	25	38
45	7Am	Medial Area 7A	12	13
46	7PL	Lateral Area 7P	7	10
47	7PC	Area 7PC	11	16
48	LIPv	Area Letral Intraparietal ventral	9	29
49	VIP	Ventral Intraparietal Complex	14	15
50	MIP	Medial Intraparietal Area	8	12
51	1	Area 1	11	23
52	2	Area 2	20	32
53	3a	Area 3a	22	39

54	6d	Dorsal Area 6	16	27
55	6mp	Area 6mp	27	33
56	6v	Ventral Area 6	11	26
57	p24pr	Area Posterior 24 prime		
58	33pr	Area 33 prime	7	
59	a24pr	Anterior 24 prime		
60	p32pr	Area p32 prime	12	
61	a24	Area 24a		
62	d32	Area dorsal 32	13	
63	8BM	Area 8BM	29	14
64	p32	Area p32		
65	10r	Area 10r		
66	47m	Area 47m		
67	8Av	Area 8Av	20	27
68	8Ad	Area 8Ad	9	28
69	9m	Area 9 Middle		
70	8BL	Area 8B Lateral		17
71	9p	Area 9 Posterior		20
72	10d	Area 10d		
73	8C	Area 8C	29	39
74	44	Area 44	15	29
75	45	Area 45	16	27
76	47l	Area 47l	17	23
77	a47r	Area anterior 47r	9	19
78	6r	Rostral Area 6	19	31
79	IFJa	Area IFJa	16	27
80	IFJp	Area IFJp	13	27
81	IFSp	Area IFSp	16	25
82	IFSa	Area IFSa	11	36
83	p9-46v	Area posterior 9-46v		21
84	46	Area 46		15
85	a9-46v	Area anterior 9-46v		10
86	9-46d	Area 9-46d		11
87	9a	Area 9 anterior		15
88	10v	Area 10v		
89	a10p	Area anterior 10p		
90	10pp	Polar 10p		9
91	11l	Area 11l	8	22
92	13l	Area 13l		18
93	OFC	Orbital Frontal Complex		
94	47s	Area 47s	7	13
95	LIPd	Area Lateral Intraparietal dorsal		14
96	6a	Area 6 anterior	16	38
97	i6-8	Inferior 6-8 Transitional Area	9	21
98	s6-8	Superior 6-8 Transitional Area		17
99	43	Area 43	13	30
100	OP4	Area OP4/PV	19	27
101	OP1	Area OP1/SII	24	28
102	OP2-3	Area OP2-3/V3	26	32
103	52	Area 52	10	22
104	RI	Retroinsular Cortex	28	34
105	PFcm	Area PFcm	17	30
106	PoI2	Posterior Insular Area 2	18	55
107	TA2	Area TA2		
108	FOP4	Frontal OPercular Area 4	29	33
109	MI	Middle Insular Area		32
110	Pir	Piriform Cortex	8	26
111	AVI	Anterior Ventral Insular Area	8	37
112	AAIC	Anterior Agranular Insular Complex	7	25
113	FOP1	Frontal OPercular Area 1	18	24
114	FOP3	Frontal OPercular Area 3	23	33
115	FOP2	Frontal OPercular Area 2	25	29
116	PFt	Area PFt	12	14
117	AIP	Anterior Intraparietal Area	7	10
118	EC	Entorhinal Cortex	8	

119	PreS	Presubiculum	14	14
120	H	Hippocampus	27	
121	ProS	Prostriate Area	41	34
122	PeEc	Perirhinal Ectorhinal Cortex	21	16
123	STGa	Area STGa		9
124	PBelt	ParaBelt Complex	16	19
125	A5	Auditory 5 Complex	24	23
126	PHA1	Parahippocampal Area 1	21	20
127	PHA3	Parahippocampal Area 3	21	
128	STSda	Area STSd anterior	14	23
129	STSdp	Area STSd posterior	25	23
130	STSVp	Area STSv posterior		12
131	TGd	Area TG dorsal	12	10
132	TE1a	Area TE1 anterior		
133	TE1p	Area TE1 posterior	21	31
134	TE2a	Area TE1 anterior		7
135	TF	Area TF	35	33
136	TE2p	Area TE2 posterior	25	32
137	PHT	Area PHT	16	21
138	PH	Area PH	24	21
139	TPOJ1	Area Temporoparietooccipital Junction 1		25
140	TPOJ2	Area Temporoparietooccipital Junction 2		28
141	TPOJ3	Area Temporoparietooccipital Junction 3	10	10
142	DVT	Dorsal Transitional Visual Area	38	33
143	PGp	Area PGp		8
144	IP2	Area Intraparietal 2	10	12
145	IP1	Area Intraparietal 1	10	17
146	IP0	Area Intraparietal 0		9
147	PFop	Area PF opercular	11	14
148	PF	Area PF Complex	14	12
149	PFm	Area PFm Complex	10	16
150	PGi	Area PGI	8	14
151	PGs	Area PGs	7	18
152	V6A	AreaV6A		9
153	VMV1	Ventromedial Visual Area 1	10	7
154	VMV3	Ventromedial Visual Area 3	17	7
155	PHA2	Parahippocampal Area 2	10	13
156	V4t	Area V4t		
157	FST	Area FST		23
158	V3CD	Area V3CD		11
159	LO3	Area Lateral Occipital 3		9
160	VMV2	Ventromedial Visual Area 2	21	
161	31pd	Area 31pd	19	7
162	31a	Area 31a		
163	VVC	Ventral Visual Complex		
164	25	Area 25		
165	s32	Area s32		
166	pOFC	Posterior OFC Complex	7	
167	PoI1	Area Posterior Insular 1	16	58
168	Ig	Insular Granular Complex	24	33
169	FOP5	Area Frontal Opercular 5	27	39
170	p10p	Area posterior 10p		15
171	p47r	Area posterior 47r	8	19
172	TGv	Area TG ventral	10	
173	MBelt	Medial Belt Complex	10	19
174	LBelt	Lateral Belt Complex	20	29
175	A4	Auditory 4 Complex		16
176	STSVa	Area STSv anterior		19
177	TE1m	Area TE1 Middle		11
178	PI	Para-Insular Area	9	39
179	a32pr	Area anterior 32 prime	11	
180	p24	Area posterior 24		

Results I

Atlas-based lesion-symptom mapping analyses with permutation testing to correct for FWER with α -levels of .1 and .001.

	Min N	α -level	Threshold	Atlas ROIs (min/max z-value)
Color	8	.1	$z > 3.26$	None, $z = 3.08$
	8	.001	$z > 3.96$	None, $z = 3.08$
Contrast	8	.1	$z > 3.77$	255 R_45 (inferior frontal gyrus) $z = 3.83$ 349 R_FOP5 (frontal operculum) $z=4.01$
	8	.001	$z > 4.61$	None, $z = 4.01$
Glossiness	7	.1	$z > 3.63$	None, $z = 2.89$
	7	.001	$z > 4.56$	None, $z = 2.89$
Location	9	.1	$z > 3.43$	None, $z = 2.70$
	9	.001	$z > 4.21$	None, $z = 2.70$
Motion	6	.1	$z > 3.62$	None, $z = 3.26$
	6	.001	$z > 5.93$	None, $z = 3.26$
Orientation	9	.1	$z > 3.41$	None, $z = 3.18$
	9	.001	$z > 4.18$	None, $z = 3.18$
Shape	9	.1	$z > 3.70$	None, $z = 3.15$
	9	.001	$z > 4.59$	None, $z = 3.15$
Texture	8	.1	$z > 3.28$	None, $z = 2.42$
	8	.001	$z > 4.00$	None, $z = 2.42$
Visual field Left	7	.1	$z > 4.32$	181 R_V1 $z=7.74$ 184 R_V2 $z=7.50$ 185 R_V3 $z=5.76$ 186 R_V4 $z=4.44$ 211 R_POS1 (parieto-occipital sulcus) $z=4.56$ 301 R_ProS $z=7.07$ 307 R_PHA3 $z=6.56$ 343 R_VVC $z=4.80$
	7	.001	$z > 5.58$	181 R_V1 $z=7.74$ 184 R_V2 $z=7.50$ 185 R_V3 $z=5.76$ 301 R_ProS $z=7.07$ 307 R_PHA3 $z=6.56$
Visual field Right	7	.1	$z > 4.48$	1 L_V1

				z=6.43 4 L_V2 z=6.53 5 L_V3 z=5.83 6 L_V4 z=4.53 155 L_PHA2 (Parahippocampal Area 2) z=4.68
	7	.001	$z > 5.66$	1 L_V1 z=6.43 4 L_V2 z=6.53 5 L_V3 z=5.83

Note: ROIs in orange are additional to those reported in the main analyses. ROI number followed by name and anatomical description.

A lenient threshold for the corrected α -level (.1, one-sided) led to two additional ROIs associated with contrast deficits. An area in the inferior frontal gyrus and in the frontal operculum. Neither of these regions are known to be involved in processing of contrast. Other additional areas are neighbouring visual regions associated with visual field deficits. Setting a stricter threshold for the corrected α -level (.01, one-sided) showed that even then, lesions in early visual areas are associated with visual field deficits.

Results II

Lesion-symptom mapping analyses with permutation testing to correct for FWER with α -level .05. Effect of different sufficient lesion affection thresholds and a comparison between atlas-based and voxel wise analyses.

	Min N	Threshold	Atlas ROIs (max z-value)	Max z-value	Nr voxels	Corresponding atlas ROI
Color	8	$z > 3.50$	None	3.08		
	4	$z > 3.59$	None	3.26		
	8	$z > 4.33$		4.08	0	
	4	$z > 4.64$		4.46	0	
Contrast	8	$z > 4.10$	None	4.01		
	4	$z > 4.32$	None	4.01		
	8	$z > 4.80$		3.83	0	
	4	$z > 5.64$		5.14	0	
Glossiness	7	$z > 3.93$	None	2.89		
	4	$z > 4.10$	None	2.93		
	7	$z > 4.61$		2.83	0	
	4	$z > 5.32$		4.06	0	
Location	9	$z > 3.70$	None	2.70		
	4	$z > 3.88$	None	2.70		
	9	$z > 4.49$		3.04	0	
	4	$z > 5.01$		3.90	0	
Motion	6	$z > 3.54$	None	3.26		
	4	$z > 3.49$	None	3.26		
	6	$z > 4.46$		3.03	0	
	4	$z > 4.59$		3.63	0	
Orientation	9	$z > 3.67$	None	3.18		
	4	$z > 3.82$	None	3.44		
	9	$z > 4.51$		3.22	0	
	4	$z > 5.00$		4.98	0	
Shape	9	$z > 4.06$	None	3.15		
	4	$z > 4.25$	None	3.28		
	9	$z > 4.93$		3.50	0	
	4	$z > 5.56$		4.93	0	
Texture	8	$z > 3.52$	None	2.42		
	4	$z > 3.66$	None	2.90		
	8	$z > 4.32$		3.96	0	
	4	$z > 4.75$		4.55	0	
Visual field Left	7	$z > 4.76$	181 R_V1 z=7.74 184 R_V2 z=7.50 185 R_V3 z=5.76 301 R_ProS z=7.07 307 R_PHA3 z=6.56 343 R_VVC z=4.80			
	4	$z > 5.16$	181 R_V1 z=7.74			

			184 R_V2 z=7.50 185 R_V3 z=5.76 194 R_RSC z=7.20 299 R_PreS z=5.42 301 R_ProS z=7.07 306 R_PHA1 z=6.63 307 R_PHA3 z=6.56 333 R_VMV1 z=6.48 334 R_VMV3 z=5.17 335 R_PHA2 z=6.14			
	7	$z > 5.49$		8.34	1903	182, 184
	4	$z > 6.38$		8.34	9187	181, 184, 301, 333
Visual field Right	7	$z > 4.93$	1 L_V1 z=6.43 4 L_V2 z=6.53 5 L_V3 z=5.83			
	4	$z > 5.26$	1 L_V1 z=6.43 4 L_V2 z=6.53 5 L_V3 z=5.83 31 L_POS1 z=5.51 119 L_PreS z=7.02 126 L_PHA1 z=5.75 153 L_VMV1 z=6.06			
	7	$z > 5.33$		7.60	0	
	4	$z > 6.15$		7.60	214	4, 126

Note: The first row for each feature is as reported in the main manuscript. Regions in orange show a lesion-symptom association additional to those reported in the main analyses.

Setting a lower sufficient lesion affection threshold and analysing voxel-wise instead of atlas-based, resulted in similar findings to those reported in the main manuscript. For none of the visual features we found an association with lesion status. For visual field defects we setting a lower threshold resulted in additional ROIs directly neighbouring with ROIs already reported, extending the visual network associated with visual field defects.

Results III

Results of atlas-based LSM with continuous behavioral scores used for all visual features.

Atlas-based lesion-symptom mapping showed no significant association between lesion status and performance on color, location, location, coherent motion, orientation, and texture tasks after controlling for age, education, interval between stroke and assessment, and scanner type, with lesion volume correction.

For contrast, out of the 360 Grey-matter ROIs included in the corrected Glasser atlas, 122 had sufficient lesion coverage (at least 8 lesions). Significant correlations were found for 2 areas (threshold $z > 2.47$), both in the right hemisphere: Area OP1/SII ($z = 2.54$), Area OP2-3/V3 ($z = 2.65$).

For glossiness, out of the 360 Grey-matter ROIs included in the corrected Glasser atlas, 109 had sufficient lesion coverage (at least 7 lesions). A significant correlation was found for the parietal operculum in the right hemisphere ($z = 3.12$, threshold $z > 2.74$).

Atlas-based lesion-symptom mapping with continuous scores for feature perception showed very limited significant associations between lesion status and performance on visual feature processing. This is in line with analyses reported in the main manuscript where we used binary scores.