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## **Supplemental Information**

### **Digital Museum of Retinal Ganglion Cells**

#### **with Dense Anatomy and Physiology**

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**Table S1: Table of correspondence with previous literatures, Related to Figure 3.** Empty cells are correspondences that are ambiguous.

High-level cluster	Name	Other name	Baden et al. [2016]	Helmstaedter et al. [2013]
	1ni		G <sub>3</sub>	-
	1no		G <sub>3</sub>	-
	1ws	M1		-
	1wt	sustained Off alpha	G <sub>5a,b</sub>	3, gc15-42
	2an	F-mini <sup>Off</sup>		3, gc15-42
	2aw	F-midi <sup>Off</sup> , J	G <sub>4,6</sub>	1, gc14-30
Outer marginal	2i			1, gc14-30
	2o		G <sub>5b,c</sub>	1, gc14-30
	25			2, gc10-40
	27			-
	28			-
	3i			-
	3o			-
On-Off DS	37c	On-Off DS, posterior	G <sub>12,13</sub>	9, gc30-63
	37d	On-Off DS, superior	G <sub>12,13</sub>	9, gc30-63
	37r	On-Off DS, anterior	G <sub>12,13</sub>	9, gc30-63
	37v	On-Off DS, inferior	G <sub>12,13</sub>	9, gc30-63
Outer central	4i		G <sub>9</sub>	5, gc37-46
	4on		G <sub>9</sub>	4, gc35-41
	4ow	transient Off alpha	G <sub>8</sub>	4, gc35-41
	5to			-
Inner-outer central	5si	HD1 or HD2		11, gc47-57
	5so	HD1 or HD2		11, gc47-57
	5ti	UHD		7, gc36-51
	5l	W3B/LED		10, gc44-52
	63	F-mini <sup>On</sup>		6, gc31-56
Inner central	6sn			-
	6sw	transient On alpha	G <sub>19</sub> *	-
	6t	F-midi <sup>On</sup>		-
On DS	7id	sustained On DS	G <sub>25,26,29</sub>	-
	7ir	sustained On DS	G <sub>25,26,29</sub>	-
	7iv	sustained On DS	G <sub>25,26,29</sub>	-
	7o	transient On DS	G <sub>16</sub>	-
Inner marginal	72			8, gc21-69
	73	OND		8, gc21-69
	8n			12, gc76-86
	8w	sustained On alpha	G <sub>24</sub>	12, gc76-86
	8li			-
	8lo			-
	82n			-
	82wi	vOS		-
	82wo			-
	85			-
	9n			12, gc76-86
	9w	M2		12, gc76-86
	9l			-
	915			-

\* G<sub>19</sub> is weakly SMI-32-immunoreactive. However, its estimated stratification depth does not match our 6sw cluster.