Human Ocular Histological Sections

Updated May 2023

NDRI #	Disease State *from Donor History & Pathology Report*	Path Report?	Age/Race/Sex	FFPE Regions Available							OCT Regions Available						
				2	3	4	5	6	7	8	2	3	4	5	6	7	8
0067722	Glaucoma (angle-closure)	Yes	80/C/F			✓			✓						✓	✓	✓
0067723	Diabetes - Type II, Diabetic Retinopathy (early or nonproliferative)	Yes	66/C/F				✓	✓			✓						✓
0067724	Normal	Yes	74/C/F								✓						
0067763	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	89/C/F								✓				✓	✓	✓
0067813	Glaucoma	Yes	79/CM														✓
0067814	Macular Degeneration, Glaucoma	Yes	88/C/F									✓			✓	✓	✓
0067832	Glaucoma	Yes	80/C/M					✓			✓	✓	✓			✓	✓
0067833	Glaucoma, Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	98/C/F				✓					✓	✓			✓	
0067868	Diabetic - Type II (20 years), Diabetic Retinopathy (nonproliferative)	Yes	60/C/F						✓		✓	✓			✓	✓	✓
0067921	Macular Degeneration (dry), Diabetes - Type II, pre-maculopathy in mild nonproliferative diabetic retinopathy	Yes	86/C/F		✓	✓	✓	✓	✓		✓	✓	✓		✓		✓
0067932	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	90/C/F			✓			✓								
0067936	Diabetes - Type II, Macular Degeneration (dry)	Yes	93/C/M			✓	✓										
0067940	Normal	Yes	30/C/M			✓					✓	✓	✓		✓	✓	✓
0067996	Normal	Yes	71/C/F								✓	✓			✓	✓	
0068033	Macular Degeneration (dry)	Yes	80/C/F			✓		✓							✓		
0068039	Glaucoma (open angle), Peripheral Chorioretinal Atrophy	Yes	85/C/F				✓				✓						✓
0068073	Diabetes - Type II (32 years), Diabetic Retinopathy (proliferative)	Yes	62/C/F			✓						✓			✓		✓
0068213	Normal, Peripheral Chorioretinal Atrophy	Yes	70/C/F		✓	✓		✓				✓			✓	✓	
0068221	Macular Degeneration (dry)	Yes	89/C/M				✓	✓			✓	✓			✓	✓	✓
0068243	Glaucoma, Peripheral Chorioretinal Atrophy	Yes	85/C/M	✓			✓	✓	✓								
0068294	Macular Degeneration (wet)	Yes	93/C/M		✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
0068373	Diabetes - Type II (9 years), Diabetic Retinopathy (nonproliferative)	Yes	68/C/F		✓				✓			✓					
0068386	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	93/C/M	✓	✓		✓		✓			✓	✓		✓	✓	✓
0068413	Normal, Peripheral Chorioretinal Atrophy	Yes	74/C/F		✓	✓	✓	✓	✓		✓	✓			✓		✓
0068555	Macular Degeneration (dry)	Yes	86/C/F		✓	✓	✓	✓	✓		✓	✓			✓		
0068797	Diabetes - Type II, Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Glaucoma (angle narrowing)	Yes	82/C/F				✓	✓			✓	✓			✓	✓	✓
0068874	Diabetic - Type II (5 years)	Yes	84/C/M		✓	✓	✓	✓			✓	✓			✓	✓	✓
0069098	Diabetes, Diabetic Retinopathy, Glaucoma	Yes	90/O/F		✓		✓	✓	✓		✓	✓			✓	✓	✓
ND00090	Diabetes - Type II, Glaucoma (open angle), Diabetic Retinopathy (nonproliferative), Macular Edema	Yes	77/C/M		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓
ND00193	Glaucoma, Retinal Dystrophy (pigmentary), Macular Degeneration	Yes	76/C/M			✓	✓	✓				✓			✓	✓	✓
ND00329	Diabetes - Type II (30 years), Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Macular Edema	Yes	96/C/F			✓	✓	✓				✓	✓		✓	✓	✓
ND00496	Diabetes - Type II, Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Macular Edema (cystoid)	Yes	75/U/F			✓	✓		✓		✓				✓	✓	✓
ND00536	Diabetes, Glaucoma (open angle), Diabetic Retinopathy (nonproliferative)	Yes	72/C/F		✓	✓	✓	✓	✓		✓	✓				✓	✓
ND00665	Diabetes - Type II, Pre-Maculopathy, Diabetic Retinopathy (mild nonproliferative)	Yes	72/C/M			✓	✓				✓	✓				✓	✓
ND00791	Normal	Yes	57/C/M				✓	✓									
ND01358	Normal	No	76/C/M				✓	✓				✓			✓	✓	✓
ND01405	Normal with Cystic Fibrosis (7 years)	No	45/C/F			✓	✓	✓	✓								
ND01824	Diabetes (19 years), Retinitis Pigmentosa	No	76/C/M							✓							
ND02566	Prediabetes	Yes	74/C/M		✓	✓	✓	✓	✓								
ND02580	Diabetes, Macular Degeneration (dry), Pre-Maculopathy, Geographic Atrophy	Yes	89/C/F			✓	✓	✓	✓								
ND02584	Diabetes - Type II	No	77/C/F			✓	✓	✓									
ND02591	Macular Degeneration	No	82/C/F			✓	✓	✓									
ND02613	Diabetes - Type II (16 years), Diabetic Retinopathy (proliferative)	Yes	60/C/M		✓	✓	✓	✓									
ND02624	Diabetic - Type II (5 years)	No	70/C/M			✓	✓	✓	✓								
ND02627	Diabetic - Type II (8 years)	No	75/C/M			✓	✓	✓	✓								
ND02722	Diabetes - Type II (20 years), Diabetic Retinopathy (nonproliferative)	Yes	93/C/M		✓	✓	✓	✓	✓								
ND02727	Normal	No	78/C/F			✓	✓	✓									
ND02741	Macular Degeneration	No	88/C/F			✓	✓	✓									
ND03080	Diabetes, Macular Degeneration	No	77/C/M			✓	✓		✓								
ND03135	Diabetes - Type II (2 years), Macular Degeneration	No	78/C/M			✓	✓	✓									
ND03186	Normal	No	71/C/M		✓	✓	✓	✓	✓								
ND03566	Normal	No	67/C/F			✓	✓										
ND03577	Normal	No	60/C/M			✓	✓										
ND05278	Normal	No	36/C/M			✓	✓	✓									

Inventory Key	
✓	Limited Quantity Available (pre-cut slides only)
✓	Thawed and Refrozen Samples avaliable (pre-cut and uncut slides)
✓	Samples available (pre-cut and uncut slides)
	No samples available

Human Ocular Histological Section RRIDs

Updated January 2025

NDRI #	Disease State *from Donor History & Pathology Report*	Path Report?	Age/Race/Sex	FFPE Regions Available	OCT Regions Available
				Cite Using these RRIDs:	Cite Using these RRIDs:
0067722	Glaucoma (angle-closure)	Yes	80/C/F	RRID:SAMN46163692	RRID:SAMN46163693
0067723	Diabetes - Type II, Diabetic Retinopathy (early or nonproliferative)	Yes	66/C/F	RRID:SAMN46163694	RRID:SAMN46163695
0067724	Normal	Yes	74/C/F		RRID:SAMN46163696
0067763	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	89/C/F		RRID:SAMN46163697
0067813	Glaucoma	Yes	79/CM		RRID:SAMN46163698
0067814	Macular Degeneration, Glaucoma	Yes	88/C/F		RRID:SAMN46163699
0067832	Glaucoma	Yes	80/C/M	RRID:SAMN46163700	RRID:SAMN46163701
0067833	Glaucoma, Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	98/C/F	RRID:SAMN46163702	RRID:SAMN46163703
0067868	Diabetic - Type II (20 years), Diabetic Retinopathy (nonproliferative)	Yes	60/C/F	RRID:SAMN46163704	RRID:SAMN46163705
0067921	Macular Degeneration (dry), Diabetes - Type II, pre-maculopathy in mild nonproliferative diabetic retinopathy	Yes	86/C/F	RRID:SAMN46163706	RRID:SAMN46163707
0067932	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	90/C/F	RRID:SAMN46163708	
0067936	Diabetes - Type II, Macular Degeneration (dry)	Yes	93/C/M	RRID:SAMN46163709	
0067940	Normal	Yes	30/C/M	RRID:SAMN46163710	RRID:SAMN46163711
0067996	Normal	Yes	71/C/F		RRID:SAMN46163712
0068033	Macular Degeneration (dry)	Yes	80/C/F	RRID:SAMN46163713	RRID:SAMN46163714
0068039	Glaucoma (open angle), Peripheral Chorioretinal Atrophy	Yes	85/C/F	RRID:SAMN46163715	RRID:SAMN46163716
0068073	Diabetes - Type II (32 years), Diabetic Retinopathy (proliferative)	Yes	62/C/F	RRID:SAMN46163717	RRID:SAMN46163718
0068213	Normal, Peripheral Chorioretinal Atrophy	Yes	70/C/F	RRID:SAMN46163719	RRID:SAMN46163720
0068221	Macular Degeneration (dry)	Yes	89/C/M	RRID:SAMN46163721	RRID:SAMN46163722
0068243	Glaucoma, Peripheral Chorioretinal Atrophy	Yes	85/C/M	RRID:SAMN46163723	
0068294	Macular Degeneration (wet)	Yes	93/C/M	RRID:SAMN46163724	RRID:SAMN46163725
0068373	Diabetes - Type II (9 years), Diabetic Retinopathy (nonproliferative)	Yes	68/C/F	RRID:SAMN46163726	RRID:SAMN46163727
0068386	Glaucoma (open angle), Macular Degeneration (dry), Peripheral Chorioretinal Atrophy	Yes	93/C/M	RRID:SAMN46163728	RRID:SAMN46163729
0068413	Normal, Peripheral Chorioretinal Atrophy	Yes	74/C/F	RRID:SAMN46163730	RRID:SAMN46163731
0068555	Macular Degeneration (dry)	Yes	86/C/F	RRID:SAMN46163732	RRID:SAMN46163733
0068797	Diabetes - Type II, Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Glaucoma (angle narrowing)	Yes	82/C/F	RRID:SAMN46163734	RRID:SAMN46163735
0068874	Diabetic - Type II (5 years)	Yes	84/C/M	RRID:SAMN46163736	RRID:SAMN46163737
0069098	Diabetes, Diabetic Retinopathy, Glaucoma	Yes	90/O/F	RRID:SAMN46163738	RRID:SAMN46163739
ND00090	Diabetes - Type II, Glaucoma (open angle), Diabetic Retinopathy (nonproliferative), Macular Edema	Yes	77/C/M	RRID:SAMN46163740	RRID:SAMN46163741
ND00193	Glaucoma, Retinal Dystrophy (pigmentary), Macular Degeneration	Yes	76/C/M	RRID:SAMN46163742	RRID:SAMN46163743
ND00329	Diabetes - Type II (30 years), Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Macular Edema	Yes	96/C/F	RRID:SAMN46163744	RRID:SAMN46163745
ND00496	Diabetes - Type II, Diabetic Retinopathy (nonproliferative), Macular Degeneration (dry), Macular Edema (cystoid)	Yes	75/U/F	RRID:SAMN46163746	RRID:SAMN46163747
ND00536	Diabetes, Glaucoma (open angle), Diabetic Retinopathy (nonproliferative)	Yes	72/C/F	RRID:SAMN46163748	RRID:SAMN46163749
ND00665	Diabetes - Type II, Pre-Maculopathy, Diabetic Retinopathy (mild nonproliferative)	Yes	72/C/M	RRID:SAMN46163750	RRID:SAMN46163751
ND00791	Normal	Yes	57/C/M	RRID:SAMN46163752	
ND01358	Normal	No	76/C/M	RRID:SAMN46163753	RRID:SAMN46163754
ND01405	Normal with Cystic Fibrosis (7 years)	No	45/C/F	RRID:SAMN46163755	
ND01824	Diabetes (19 years), Retinitis Pigmentosa	No	76/C/M	RRID:SAMN46163756	
ND02566	Prediabetes	Yes	74/C/M	RRID:SAMN46163757	
ND02580	Diabetes, Macular Degeneration (dry), Pre-Maculopathy, Geographic Atrophy	Yes	89/C/F	RRID:SAMN46163758	
ND02584	Diabetes - Type II	No	77/C/F	RRID:SAMN46163759	
ND02591	Macular Degeneration	No	82/C/F	RRID:SAMN46163760	
ND02613	Diabetes - Type II (16 years), Diabetic Retinopathy (proliferative)	Yes	60/C/M	RRID:SAMN46163761	
ND02624	Diabetic - Type II (5 years)	No	70/C/M	RRID:SAMN46163762	
ND02627	Diabetic - Type II (8 years)	No	75/C/M	RRID:SAMN46163763	
ND02722	Diabetes - Type II (20 years), Diabetic Retinopathy (nonproliferative)	Yes	93/C/M	RRID:SAMN46163764	
ND02727	Normal	No	78/C/F	RRID:SAMN46163765	
ND02741	Macular Degeneration	No	88/C/F	RRID:SAMN46163766	
ND03080	Diabetes, Macular Degeneration	No	77/C/M	RRID:SAMN46163767	
ND03135	Diabetes - Type II (2 years), Macular Degeneration	No	78/C/M	RRID:SAMN46163768	
ND03186	Normal	No	71/C/M	RRID:SAMN46163769	
ND03566	Normal	No	67/C/F	RRID:SAMN46163770	
ND03577	Normal	No	60/C/M	RRID:SAMN46163771	
ND05278	Normal	No	36/C/M	RRID:SAMN46163772	

NDRI offers three slide options: Electrostatically charged, Gelatin Subbed, and RNAase Free. Your order will be cut on Electrostatically charged slides unless otherwise indicated. Stains and imaging are available upon request.

In the normal retina the macula is histologically defined as the region with two or more layers of ganglion cells. As the retina may not be normal, we consider the macula to be retina within a 5.5mm diameter cirle centered on the foveola.

Definitions:

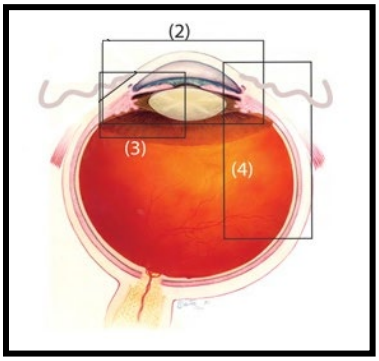
Fovea: (fovea centralis) is 1.85mm in diameter. The foveloa, which is 0.35mm in diameter, lies within the fovea.

Parafovea: ring 0.5mm in width surrounding fovea. Has the largest accumulation of nerve cells in the entire region, especially ganglion cell and inner nuclear layers. The thick outer plexiform layer in this region is the layer of Henle. Normally the ganglion cells form 7 rows at its edge.

Perifovea: ring 1.5mm around parafovea. Normally commences where the ganglion cells are 4 layers and terminates where the ganglion cells are reduced to a single layer.

Anterior Ocular Structures

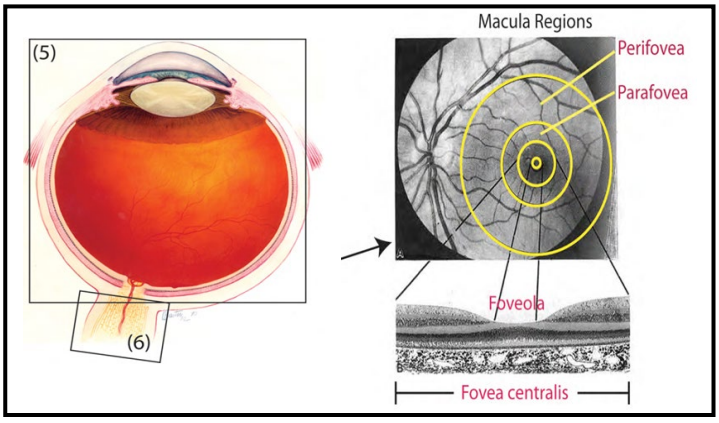
Region #	Structures
2	Anterior Segment
3	Angle structures only
4	Angle with mid-peripheral

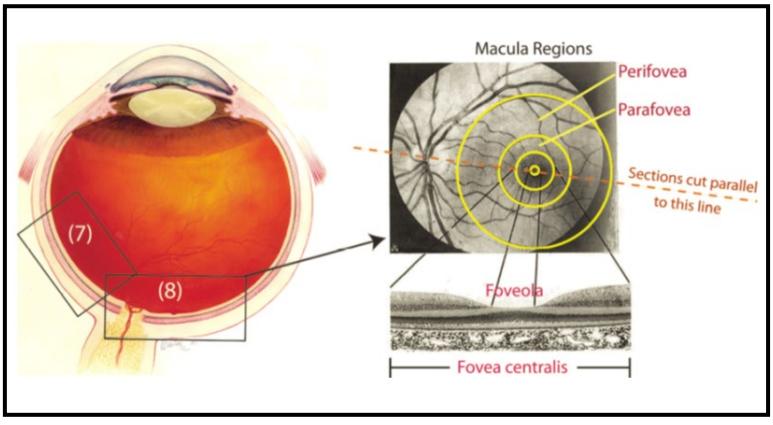


Complete Eye Section and Optic Nerve

Region	Structures
5	Complete Eye Section through Foveola
5	Complete Eye Section through Fovea
5	Complete Eye Section through Para-, Perifovea
5	Complete Eye Section through Non-Macula
6	Optic Nerve*

** The superior and lateral surfaces of the optic nerve are inked red and black respectively. The nerve is cut flush from the globe and embedded in cross and logitudinal orientations in the same block.*



Retina and Macula

Region	Structures
7	Retina with RPE/Choroid structure
7	Neural Retina only
8	Macula – Foveola
8	Macula – Fovea
8	Macula - Parafovea/Perifovea