



Article

Investigating Biomarkers for *USH2A* Retinopathy Using Multimodal Retinal Imaging

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Tables S1–S3. Correlation with age, best-corrected visual acuity (Snellen), and between metrics is shown using the coefficient of determination (R^2). The number of subjects included in each analysis is denoted by n , with a mean value combining paired eyes calculated for each metric. $p < 0.05$ is considered statistically significant.

Table S1. Age and functional correlation of retinal imaging in *USH2A* retinopathy.

Imaging Modality	Correlation of:	n	with Age		with BCVA	
			R^2	p	R^2	p
FAF	IR Diameter	16	0.309	0.03*	0.496	0.002**
	OR Diameter	16	0.288	0.03*	0.353	0.02*
SD-OCT	EZ Width	15	0.246	0.06	0.717	< 0.001***
	ELM Width	14	0.090	0.30	0.653	< 0.001***
	EZ Reflectance	16	0.220	0.07	0.712	< 0.001***
AOSLO	Foveal Cone Density	16	0.377	0.01*	0.642	< 0.001***
	IMPM Diameter	16	0.300	0.03*	0.409	0.008**

Table S2. Intramodal retinal imaging correlation in *USH2A* retinopathy.

Imaging Modality	Correlation of:	n	R^2	p
FAF	IR Diameter with OR Diameter	16	0.928	< 0.001***
SD-OCT	EZ Width with ELM Width	14	0.962	< 0.001***
	EZ Width with EZ Reflectance	15	0.451	0.006**
	ELM Width with EZ Reflectance	14	0.592	0.001**
AOSLO	Foveal Cone Density with IMPM Diameter	16	0.609	< 0.001***

Table S3. Multimodal retinal imaging correlation in *USH2A* retinopathy.

Imaging Modality	Correlation of:	n	R^2	p
FAF versus SD-OCT	IR Diameter with EZ Width	15	0.998	< 0.001***
	IR Diameter with ELM Width	14	0.963	< 0.001***
	IR Diameter with EZ Reflectance	16	0.331	0.02*
	OR Diameter with EZ Width	15	0.896	< 0.001***
	OR Diameter with ELM Width	14	0.995	< 0.001***
	OR Diameter with EZ Reflectance	16	0.196	0.09
SD-OCT versus AOSLO	EZ Width with Foveal Cone Density	15	0.738	< 0.001***
	EZ Width with IMPM Diameter	15	0.992	< 0.001***
	ELM Width with Foveal Cone Density	14	0.693	< 0.001***
	ELM Width with IMPM Diameter	14	0.963	< 0.001***
	EZ Reflectance with Foveal Cone Density	16	0.658	< 0.001***
FAF versus AOSLO	EZ Reflectance with IMPM Diameter	16	0.271	0.04*
	IR Diameter with Foveal Cone Density	16	0.695	< 0.001***
	IR Diameter with IMPM Diameter	16	0.981	< 0.001***
	OR Diameter with Foveal Cone Density	16	0.506	0.002**
	OR Diameter with IMPM Diameter	16	0.941	< 0.001***

Abbreviations: AOSLO, adaptive optics scanning laser ophthalmoscopy; BCVA, best-corrected visual acuity; ELM, external limiting membrane; EZ, ellipsoid zone; FAF, fundus autofluorescence; IMPM, intact macular photoreceptor mosaic; IR, inner hyperautofluorescent ring; OR, outer hyperautofluorescent ring; SD-OCT, spectral-domain optical coherence tomography.