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**Optineurin (*OPTN*) screening in Primary Open Angle-Glaucoma (POAG)**

Rosa M. Ayala-Lugo, Paul R. Lichter, Hemant S. Pawar, Avis Aledavood, Sayoko E. Moroi, Catherine A. Downs, Theresa M. Guckian, William C. Bromley, Christine T. N'tim-Amponash, Alfonso Mendoza, Veronica Azocar, Eugenio J. Maul, Benjamin F. Boyd, Samuel Boyd Lewis, Julia E. Richards.

**Purpose:** To determine the role of *OPTN* in POAG with high intraocular pressure (IOP).

**Methods:** 271 primary open-angle glaucoma probands with IOP > 22 mmHg were screened for *OPTN* mutations.

**Results:** We found causative mutations in three probands: one with an E50K and two with R545Q mutations. In addition, we found 34 individuals with the risk-associated alteration, M98K.

**Conclusions:** In screening a set of subjects with POAG with elevated IOP, causative *OPTN* mutations were found in 3/261 (1.15%). In contrast, a risk-associated alteration was found in 13 %.

**Commercial Relationship:** R.M. Ayala-Lugo, None; P.R. Lichter, None; H.S. Pawar, None; A. Aledavood, None; S.E. Moroi, None; C.A. Downs, None; T.M. Guckian, None; W.C. Bromley, None; C.T. N'tim-Amponash, None; A. Mendoza, None; V. Azocar, None; E.J. Maul, None; B.F. Boyd, None; S. Boyd Lewis, None; J.E. Richards, None.

**Topic (Complete):** 5.6 Genetics

**Additional (Complete):**

**Financial interest** : No

**Approved by IRB** : Yes

**Permission to Record** : Yes

**Study Design** : Cohort Study

**Precis** : Although *OPTN* is reportedly important in normal tension glaucoma, it may play only a minor role in primary open-angle glaucoma, being the cause of 1.15% of POAG cases with IOP > 22 mmHg.