Supplemental Table 2: Animal demographics, treatments, imaging dates for 2020 experiments

| Supplemental Table 2: 2020 Experiments |
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| Animal ID | Sex | Chemical | Volume & conc. | Contralateral eye | Baseline | Injection | 1 Week | 2 Weeks | 3 Weeks | 4 Weeks | 5 Weeks | 6 Weeks | 8 Weeks |
| DM\_192602 | F | ATP | 20 µL 0.379M | 20 µL 0.379M | OCT: 5/22SLO: 5/22AOSLO: 6/5 | 7/13 | OCT+SLO\*: 7/20 | OCT+SLO\*: 7/27 | OCT+ SLO\*: 8/4 | ND | ND | ND | OCT+SLO\*+AOSLO: 9/16 (OS only) |
| DM\_197913 | M | ATP | 20 µL 0.379M | 20 µL 0.379M | OCT: 5/22SLO: 5/22AOSLO: 5/22 | 7/13 | OCT+SLO\*: 7/20 | OCT+SLO\*: 7/27 | OCT+ SLO\*: 8/4 | AOSLO: 8/11 (OS only) | ND | ND | OCT+SLO\*+AOSLO: 9/16 (OS only) |
| MCW\_190305 | M | ATP | 20 µL 0.379M | 20 µL 0.379M | OCT: 5/12; 7/10SLO: 5/12AOSLO: 5/13 | 7/10 | OCT+SLO\*: 7/17 | OCT+SLO\*: 7/24 | ND | OCT+SLO\*+ AOSLO: 8/7 (OS only) | ND | ND | ND |
| DM\_197911 | M | ATP | 30 µL 0.528M | None | OCT: 4/10; 4/22SLO: 4/10AOSLO: 4/23 | 5/18 | OCT+SLO: 5/25 | OCT+SLO: 6/1 | OCT+ SLO: 6/8 | OCT+SLO+ AOSLO: 6/15 | OCT+ SLO: 6/22 | OCT+SLO: 6/29 | OCT+SLO\*+AOSLO: 7/13 |
| DM\_191201 | M | ATP | 10 µL 0.723M | None | OCT: 4/13SLO: 4/13AOSLO: 4/30 | 6/18 | OCT+SLO: 6/25 | OCT+SLO\*: 7/2 | OCT+ SLO\*: 7/9 | OCT+SLO\*+ AOSLO: 7/16 | OCT+ SLO\*: 7/23 | OCT+ SLO\*: 7/30 | OCT+SLO\*+AOSLO: 8/13 |
| DM\_191902 | F | ATP | 10 µL 0.723M | 10 µL 0.723M | OCT: 5/22; 7/10SLO: 5/22AOSLO: 6/5 | 7/10 | OCT+SLO\*: 7/17 | OCT+SLO\*: 7/24 | ND | OCT+SLO\*+ AOSLO: 8/7 (OS only) | ND | ND | OCT+SLO\*+AOSLO: 9/10 (OS only) |
| DM\_198101 | M | ATP | 10 µL 0.723M | 10 µL 0.723M | OCT: 4/14; 4/22SLO: 4/14AOSLO: 5/7 | 7/8 | OCT+SLO\*: 7/15 | OCT+SLO\*: 7/22 | OCT+ SLO\*: 7/29 (OD only) | OCT+SLO\*+ AOSLO: 8/6 (OD only) | ND | ND | OCT+SLO\*+AOSLO: 9/9 (OD only) |
| MCW\_190307 | M | ATP | 10 µL 0.723M | 10 µL 0.723M | OCT: 5/10; 7/3SLO: 5/12AOSLO: 5/13 | 7/8 | OCT+SLO\*: 7/15 | OCT+SLO\*: 7/22 | OCT+ SLO\*: 7/29 (OD only) | OCT+SLO\*+ AOSLO: 8/6 (OD only) | ND | ND | OCT+SLO\*+ AOSLO: 9/9 (OD only) |
| MCW\_190308 | F | ATP | 10 µL 0.723M | None | OCT: 4/13SLO: 4/13AOSLO: 4/30 | 6/18 | OCT+SLO: 6/25 | OCT+SLO: 7/2 | OCT+ SLO\*: 7/9 | OCT+SLO\*+ AOSLO: 7/16 | OCT+SLO\*: 7/23 | OCT+SLO\*: 7/30 | OCT+SLO\*+AOSLO: 8/13 |
| DM\_198007 | M | Tgn | 30 µL 20nM | None | OCT: 4/10; 4/22SLO: 4/10AOSLO: 4/23 | 5/19 | OCT+SLO: 5/26 | OCT+SLO: 6/2 | OCT+ SLO: 6/9 | OCT+SLO+ AOSLO: 6/16 | OCT+SLO: 6/23 | OCT+SLO: 6/30 | OCT+SLO\*+AOSLO: 7/14 |
| MCW\_190309 | M | Tgn | 30 µL 20nM | None | OCT: 4/10; 4/22SLO: 4/10AOSLO: 4/23 | 5/19 | OCT+SLO: 5/26 | OCT+SLO: 6/2 | OCT+ SLO: 6/9 | OCT+SLO+ AOSLO: 6/16 | OCT+SLO: 6/23 | OCT+SLO: 6/30 | OCT+SLO\*+AOSLO: 7/14 |
| DM\_198005 | M | Tgn | 10 µL 82nM | None | OCT: 4/13SLO: 4/13AOSLO: 4/30 | 6/19 | OCT+SLO: 6/26 | OCT+SLO\*: 7/3 | OCT+ SLO\*: 7/10 | OCT+SLO\*+ AOSLO: 7/17 | OCT+SLO\*: 7/24 | OCT+SLO\*: 7/31 | OCT+SLO\*: 8/17 |
| MCW\_190301 | M | Tgn | 10 µL 82nM | None | OCT: 4/13SLO: 4/13AOSLO: 4/30 | 6/19 | OCT+SLO: 6/26 | OCT+SLO\*: 7/3 | OCT+ SLO\*: 7/10 | OCT+SLO\*+ AOSLO: 7/17 | OCT+SLO\*: 7/24 | OCT+SLO\*: 7/31 | OCT+SLO\*: 8/17 |
| DM\_198106 | F | Tgn | 10 µL 164nM | None | OCT: 4/14SLO: 4/14AOSLO: 5/7 | 7/30 | OCT+SLO\*: 8/6 | OCT+SLO\*: 8/14 | ND | ND | ND | ND | ND |
| MCW\_190304 | F | Tgn | 10 µL 164nM | None | OCT: 4/13; 4/24SLO: 4/6AOSLO: 5/7 | 7/30 | OCT+SLO\*:8/6 | OCT+SLO\*: 8/14 | OCT+ SLO\*: 8/20 | ND | ND | ND | OCT+SLO\*+AOSLO: 10/6 |
| DM\_198105 | M | Tm | 30 µL 0.25 µg/µL | None | OCT: 4/13; 4/24SLO: 4/13AOSLO: 4/29 | 5/20 | OCT+SLO: 5/27 | OCT+SLO: 6/3 | OCT+ SLO: 6/10 | OCT+SLO+ AOSLO: 6/17 | OCT+SLO: 6/24 | OCT+SLO: 7/1 | OCT+SLO\*+AOSLO: 7/15 |
| MCW\_190311 | M | Tm | 30 µL 0.25 µg/µL | None | OCT: 4/13; 4/24SLO: 4/13AOSLO: 4/29 | 5/20 | OCT+SLO: 5/27 | OCT+SLO: 6/3 | OCT+ SLO: 6/10 | OCT+SLO+ AOSLO: 6/17 | OCT+SLO: 6/24 | OCT+SLO: 7/1 | OCT+SLO\*+AOSLO: 7/15 |
| DM\_192002 | F | Tm | 10 µL 1.5 µg/µL | None | OCT: 5/10SLO: 5/10AOSLO: 5/12 | 7/15 | OCT+SLO\*: 7/22 | OCT+SLO\*: 7/29 | OCT+ SLO\*: 8/6 | OCT+SLO\*+ AOSLO: 8/12; 8/14 | ND | ND | OCT+SLO\*+AOSLO: 9/10 |
| DM\_197915 | M | Tm | 10 µL 1.5 µg/µL | None | OCT: 5/10SLO: 5/10AOSLO: 5/12 | 7/15 | OCT+SLO\*: 7/22 | OCT+SLO\*: 7/29 | OCT+ SLO\*: 8/6 | OCT+SLO\*+ AOSLO: 8/12; 8/14 | ND | ND | OCT+SLO\*+AOSLO: 9/10 |
| DM\_198107 | M | Tm | 10 µL 2.5 µg/µL | None | OCT: 4/14SLO: 4/14AOSLO: 5/7 | 9/2 | OCT+SLO\*: 9/10 | OCT+SLO\*: 9/16 | OCT+ SLO\*: 9/22 | OCT+SLO\*+ AOSLO: 10/6 | ND | ND | ND |
| MCW\_190306 | F | Tm | 10 µL 2.5 µg/µL | None | OCT: 4/13SLO: 4/14AOSLO: 5/7 | 9/2 | OCT+SLO\*: 9/10 | OCT+SLO\*: 9/16 | OCT+ SLO\*: 9/22 | OCT+SLO\*: 10/6 | ND | ND | ND |

\*Both near-infrared reflectance and short-wavelength autofluorescence SLO imaging was performed.

All animals were ≥1 year of age.

Dates are in month/day format.

ATP, adenosine triphosphate; Tgn, thapsigargin; Tm, tunicamycin; OCT, optical coherence tomography; SLO, scanning light ophthalmoscopy; AOSLO, adaptive optics scanning light ophthalmoscopy; conc., concentration; ND, no data.