\*Title: Eye Morphology Assessment

\*Centre: IMPC

\*Date\_modified: 22-08-12

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\*Version: 1.1

{Sections:}

## \*1: Purpose:

To detect abnormalities in eye morphology.

## \*2: Experimental Design:

* **Minimum number of animals :** 7M + 7F
* **Age at test:** Ideal age = 15 weeks ±3 days. Minimal age = 14 weeks
* **Sex:** We would not expect the results of this test to show sexual dimorphism

## \*3: Equipment

## \*4: Procedure

1. Examine the anterior of both eyes (e.g. with slit lamp) and record any abnormalities
2. Test the iris/pupil light response
3. Image abnormal eyes as a minimum or all eyes if capacity permits
4. Dilate both eyes
5. Examine the anterior and posterior of both dilated eyes (e.g. with slit lamp and ophthalmoscope) and record any abnormalities
6. Image abnormal eyes as a minimum or all eyes if capacity permits

## \*5: Notes

* As a minimum, all abnormalities should be imaged.
  + Where capacity permits, all mice can be imaged
* Majority of parameters can be analysed using the standard approach for assessing categorical data. To increase power for analysis purposes, where an abnormality is detected in the left, right or both eyes, the data may be combined to generate one “abnormal” category.

|  |  |  |  |
| --- | --- | --- | --- |
| **Metadata** | **Example Value** | **Required for data upload** | **Required for data analysis** |
| Dilation Method | “No” or provide details e.g. Tropicamide | YES | NO |
| Topical Anesthetic | “No” or provide details e.g. “Oxybuprocain” | YES | NO |
| General Anesthetic | “No” or provide details e.g. “Isoflurane” | YES | NO |

Data QC

### Image QC is typically performed during data collection to ensure high quality images are captured whilst eyes are dilated etc.

## \*6. Measured Parameters - list

{Placed in Parameters spreadsheet}

## \*7. MetaData Parameters - list

{Placed in Parameters spreadsheet}