

JAX KOMP² Phenotyping Center

Karen Svenson

28 September 2011



Age
(Weeks)

6

Test cohorts received

6 – 8

Acclimation to test facility

Neurobehavioral, Vision and Hearing

8

Open Field Activity

9

Light-Dark Test

10

Sociability Test

11

Holeboard Exploration

12

Rotarod

13

Plantar mechanical sensation
Tail suspension test

14

Tail clip test

15

Hot plate

16

Grip strength

17

Eye dysmorphology survey
Slit lamp biomicroscopy
Indirect ophthalmoscopy
Electroretinography

18

Sleep

19

Parallel Rod, Modified SHIRPA
Auditory Brainstem Response
Acoustic Startle/PPI

20

Seizure Threshold

21

Necropsy, Histopathology

Age in Weeks
6

Test cohorts received

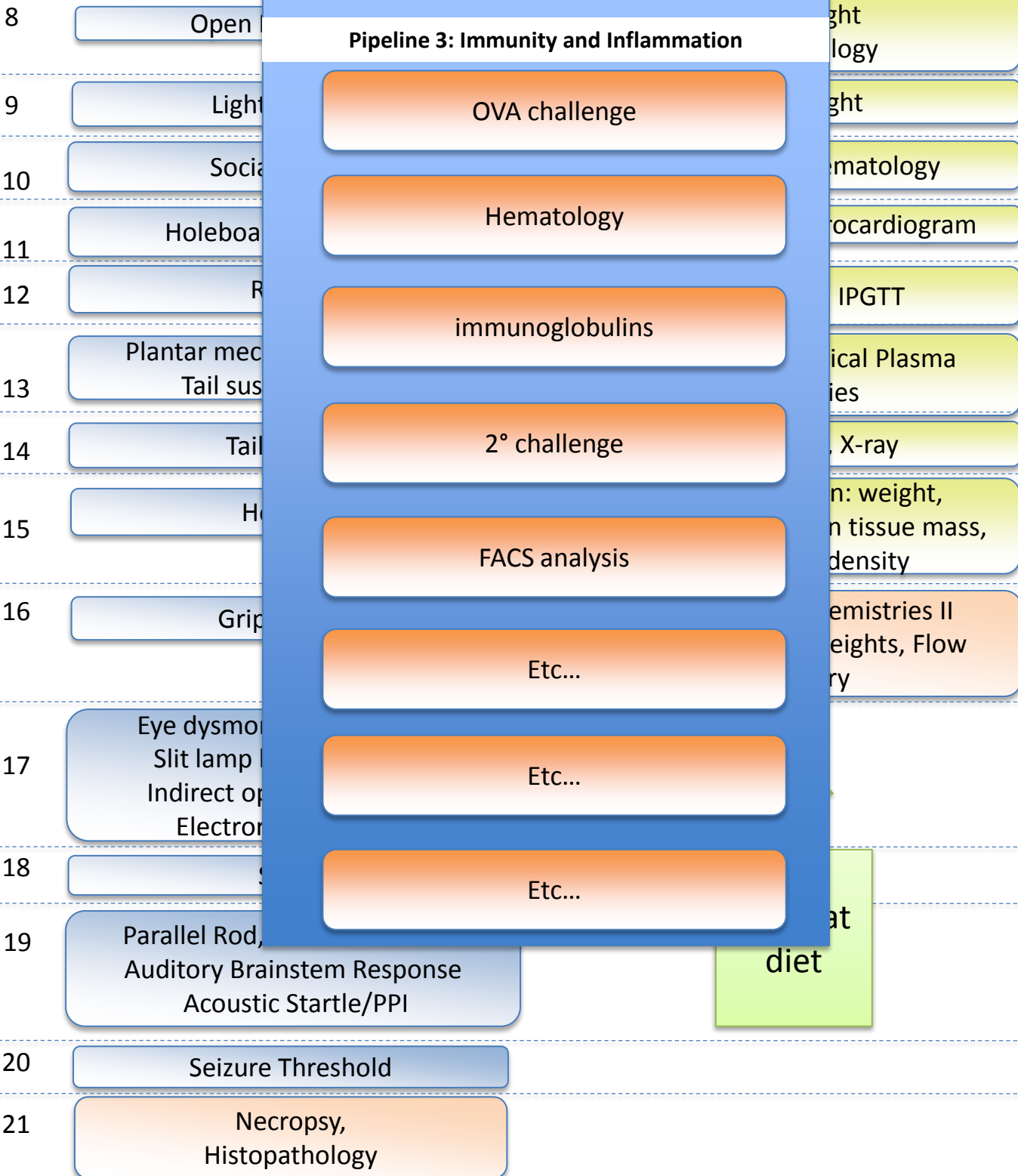
6 – 8

Acclimation to test facility

Pipeline Assignment

Pipeline 1: Neurobehavioral, Vision and Hearing

Pipeline 2: Metabolic and Cardiovascular



Age in Weeks
6

Test cohorts received (8f/8m per KO)

6 – 8

Acclimation to test facility

Body weight 6, 7 weeks

8

Body Weight
Dysmorphology (SHIRPA)

9

Open Field Activity
Light-Dark Test
Body Weight

10

Holeboard Exploration
Tail suspension test
Body Weight

11

Body Weight, Electrocardiogram
Grip Strength

12

DEXA; X-ray

13

Parallel Rod
Auditory Brainstem Response
Acoustic Startle/PPI, Body Weight

14

Tail Clip Test (Hot Plate?)
IPGTT, Body Weight

15

Eye dysmorphology survey
Slit lamp biomicroscopy, Indirect ophthalmoscopy
Electroretinography, Body Weight

16

Sleep

17

Seizure Threshold

18

Clinical plasma chemistries, Hematology, insulin
(2/2) Necropsy, Histology, Organ Weights
(2/2) Flow Cytometry

sleep

Domain Experts

- Grand Rounds