A RESEARCH PROGRAMME IMAGING AND PHENOTYPING EMBRYONIC-LETHAL MOUSE KNOCKOUT LINES, REVEALING CRITICAL GENES FOR NORMAL EMBRYO DEVELOPMENT.

OUR PROJECT

- OVER 5 MILLION IMAGES at near-histological resolution
- OVER 650 EMBRYOS including many previously unstudied mutant lines
- COMPLETE IMAGE STACKS over 3,000 images for each embryo
- STANDARDISED PHENOTYPES by anatomical experts
- PLACENTA PHENOTYPES annotated placenta images for many embryos
- PENETRANCE DATA for all phenotypes
- REFERENCE EMBRYOS over 300 wild-type embryos for comparison

A DATABASE OF HIGH-RESOLUTION IMAGES AND PHENOTYPE DATA
Embryos are imaged using High Resolution Episcopic Microscopy (HREM). They can be viewed at full resolution (1-3 μm) in all three orthogonal planes.