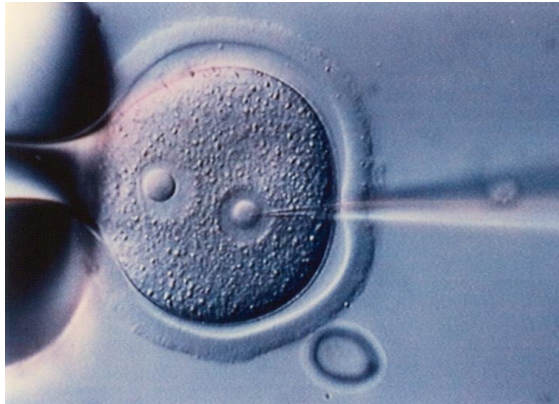


McGill Integrated Core for Animal Modeling

Platform to generate new genetically modified animal models as well as several support services to help manage their existing lines.

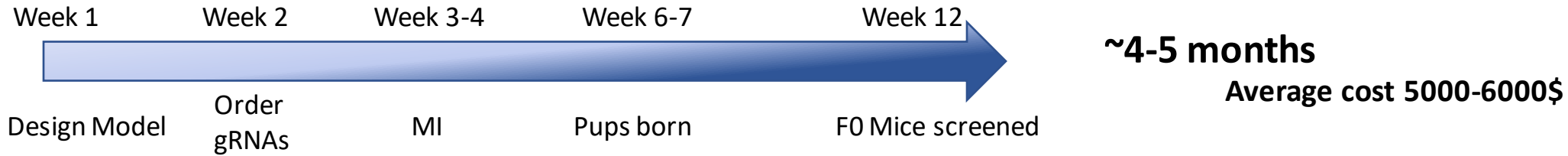


- Crispr/Cas9 technology to create mice and rodent models
- Cryopreservation of gametes
- In Vitro Fertilization (IVF)
- Gene-targeting – generating chimeric mice from Embryonic Stem Cells
- Generation of mice or rats from frozen embryos

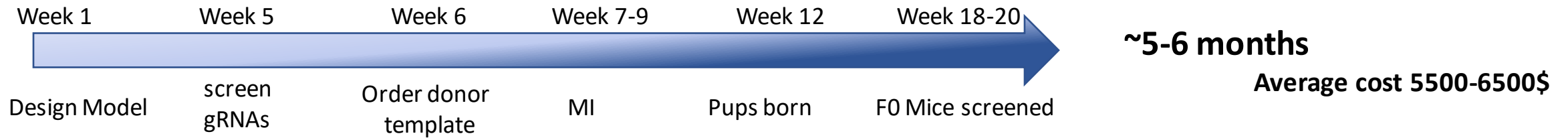


Timelines

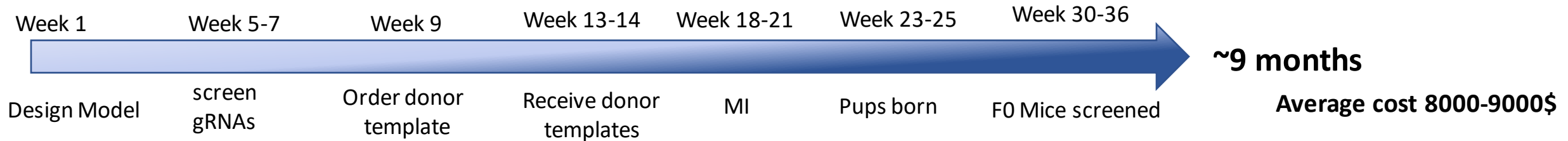
KO mice (Indels or Exon deletion)



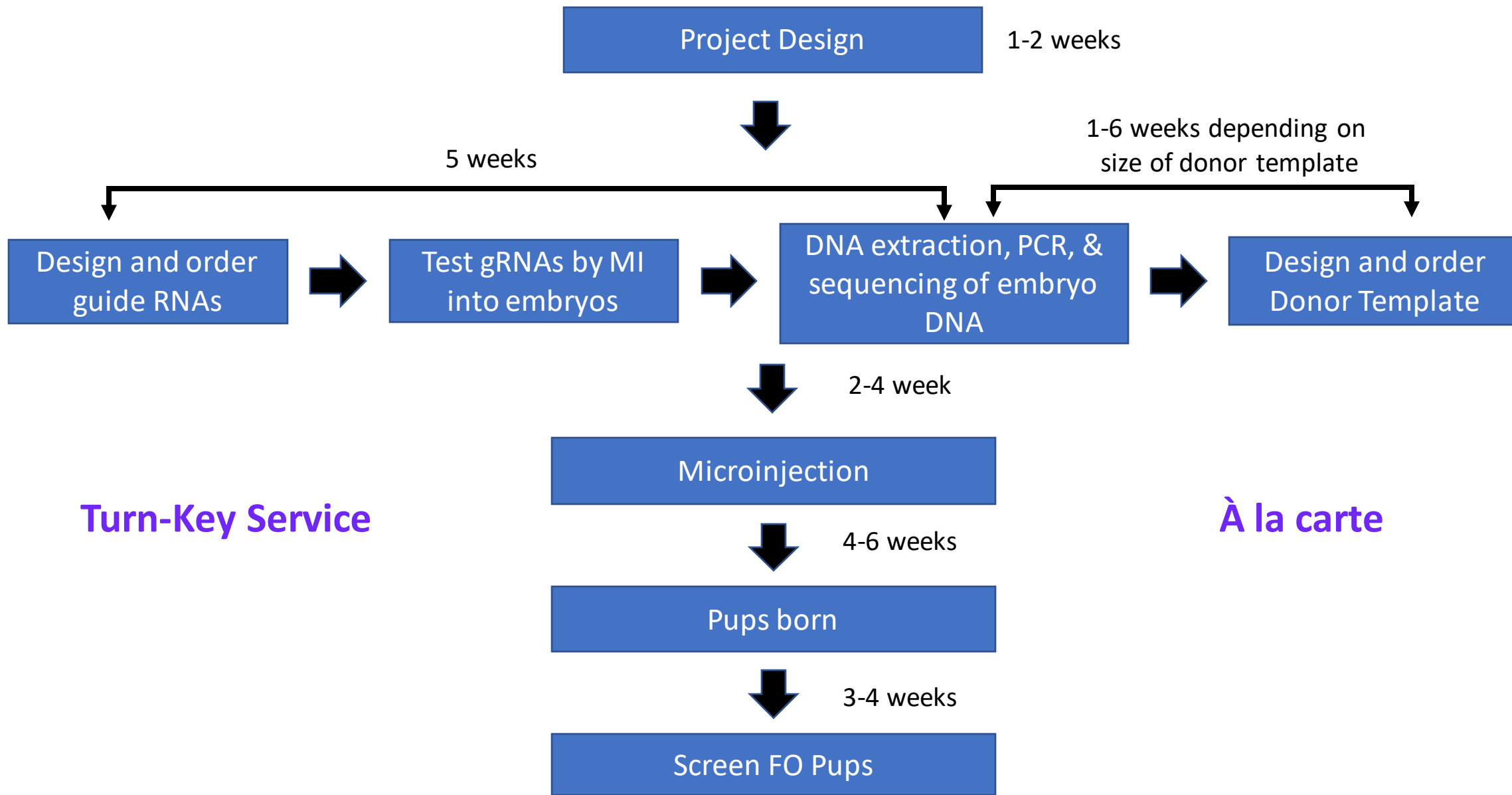
KIs: Point Mutations or Small Insertions



Large KIs: Conditional loxP mice or Large Inserts

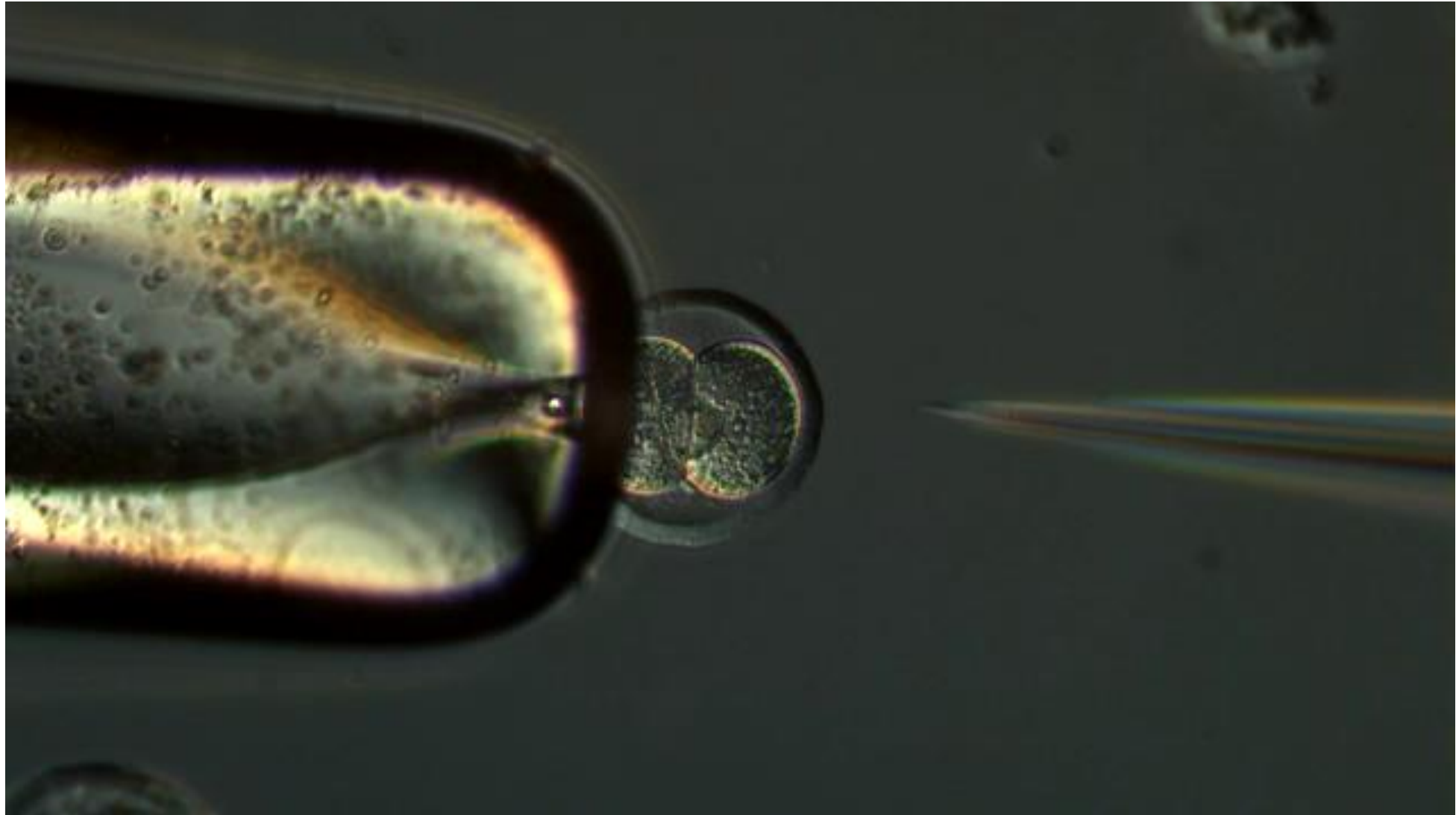


Steps and Timeline involved in making a HDR GM model using Crispr/Cas9



27-30 weeks to generate an FO founder model

Micro-injection





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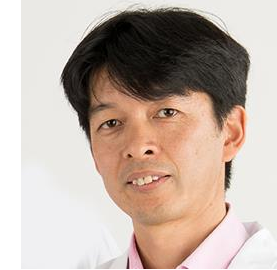
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