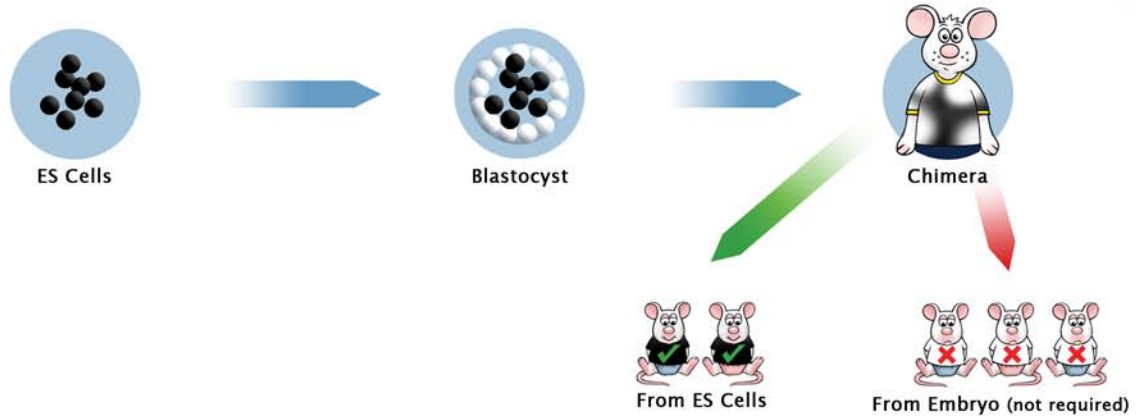




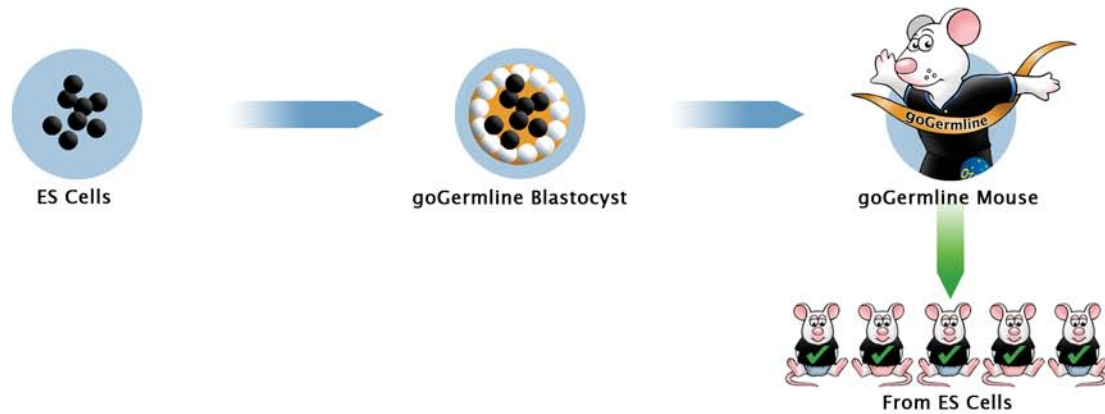
to advance humanity - inspire curiosity

Introducing goGermline technology

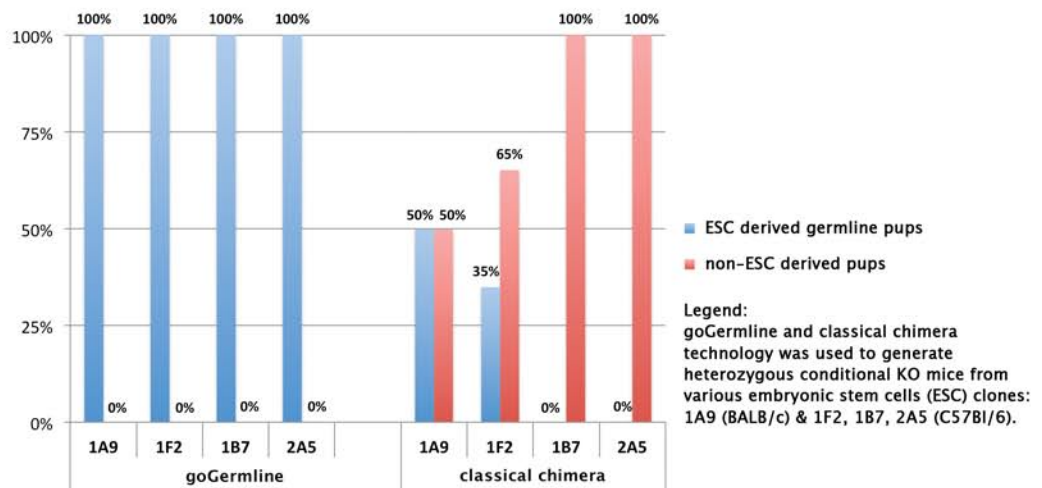
Current state: unreliable derivation of ES cell germline mice from chimeras
high uncertainty - long lead times - many repeats - large animal numbers



goGermline technology generates 100% ES cell derived germline mice
no non-ES cell mice generated - getting ES cell mice - first time - every time



ES cell derived offspring vs. non-ES cell derived offspring
Comparing goGermline and classical chimeras using the same ES cell clones





to advance humanity - inspire curiosity

Benefits of goGermline technology

goGermline significantly reduces lead-time & increases germline efficiency
goGermline technology generates 100% ES cell derived germline mice

- **generate:** only ES cell derived mice
- **eliminate:** all non-ES cell derived mice
- **reduce:** time to generate germline mice
- **increase:** germline efficiency, even with challenging ES cells
- **reduce:** animal numbers

goGermline gives Animal Ethics Committees an opportunity to improve
3R - Replace - Reduce - Refine your animal numbers

- **replace:** non-ES cell derived mice
- **reduce:** breeding and housing
- **reduce:** repeat injections
- **reduce:** donor animal numbers
- **reduce:** donor stud animals
- **reduce:** recipient animal numbers
- **reduce:** stock animal numbers
- **reduce:** time to achieve germline
- **reduce:** existing procedures

goGermline provides animal facilities with cost and human benefits
licencing opportunities are available for academic and commercial facilities

Cost benefits:

- **reduce:** cage numbers
- **reduce:** water, feeding & bedding
- **reduce:** waste
- **reduce:** autoclaving of cages
- **reduce:** energy costs
- **reduce:** wear & tear of assets
- **reduce:** animal research costs
- **reduce:** facility labour cost

Human benefits:

- **no:** husbandry of non-ES cell mice
- **no:** euthanising of non-ES cell mice
- **no:** new training

Do you want to utilise goGermline?

Contact Ozgene www.ozgene.com/contact to discuss:

- (i) Licencing of goGermline (worldwide patents pending)
- (ii) Undertaking a full KO/KI mouse project using goGermline
- (iii) Using an existing ES cell line to generate a mouse line