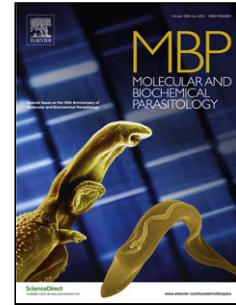


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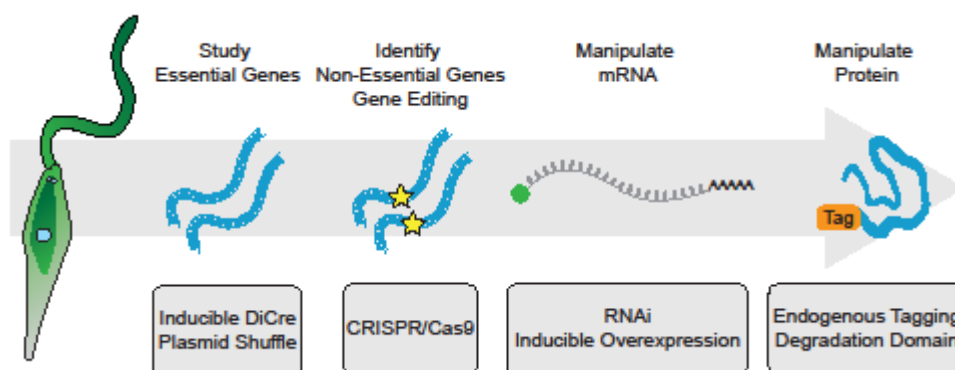
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### Graphical abstract



### Highlights

- The toolbox for genetic manipulation of *Leishmania* is expanding
- RNAi is limited to some *Leishmania* species
- CRISPR-Cas9 gene editing extends capability considerably
- New inducible gene expression systems allow the function of essential genes to be characterised

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