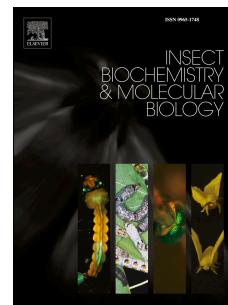


# Accepted Manuscript

Hyperactive *piggyBac* transposase improves transformation efficiency in diverse insect species

Kolja N. Eckermann, Hassan M.M. Ahmed, Mohammad KaramiNejadRanjbar, Stefan Dippel, Christian E. Ogaugwu, Peter Kitzmann, Musa D. Isah, Ernst A. Wimmer



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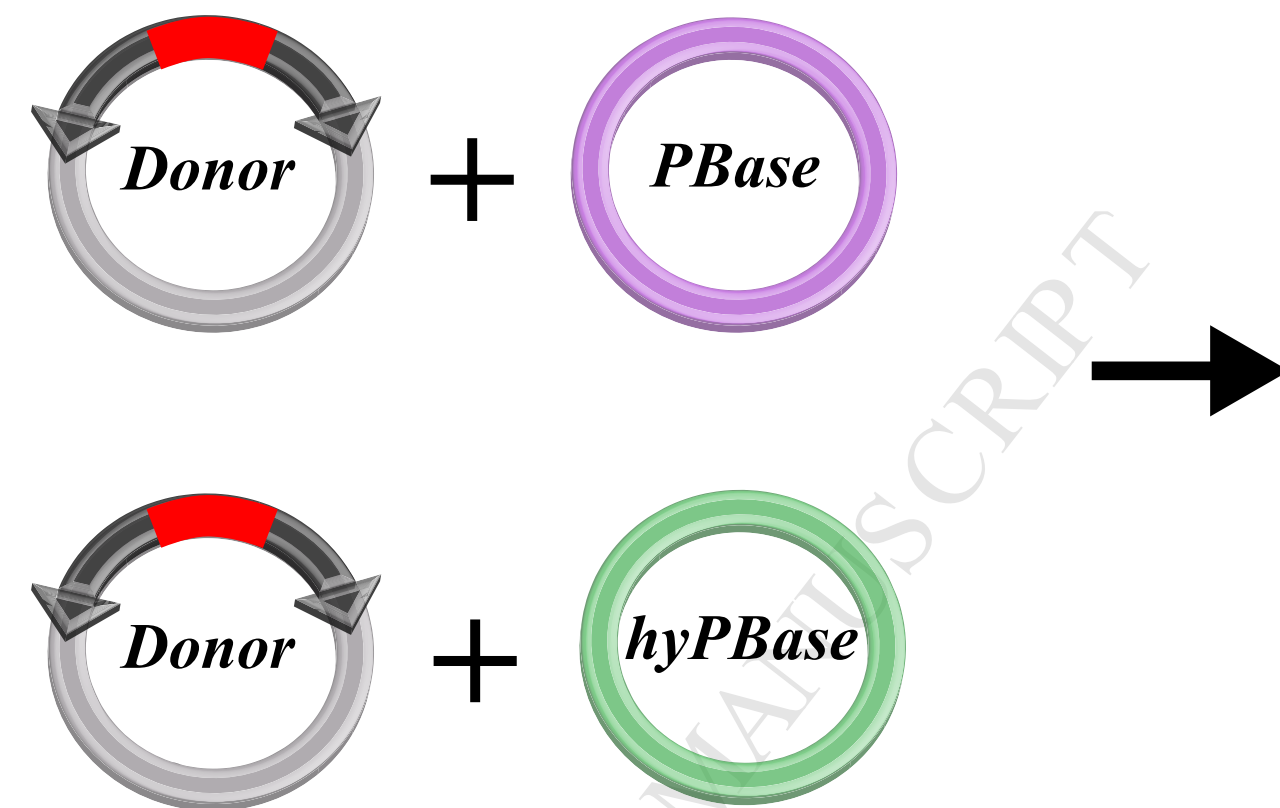
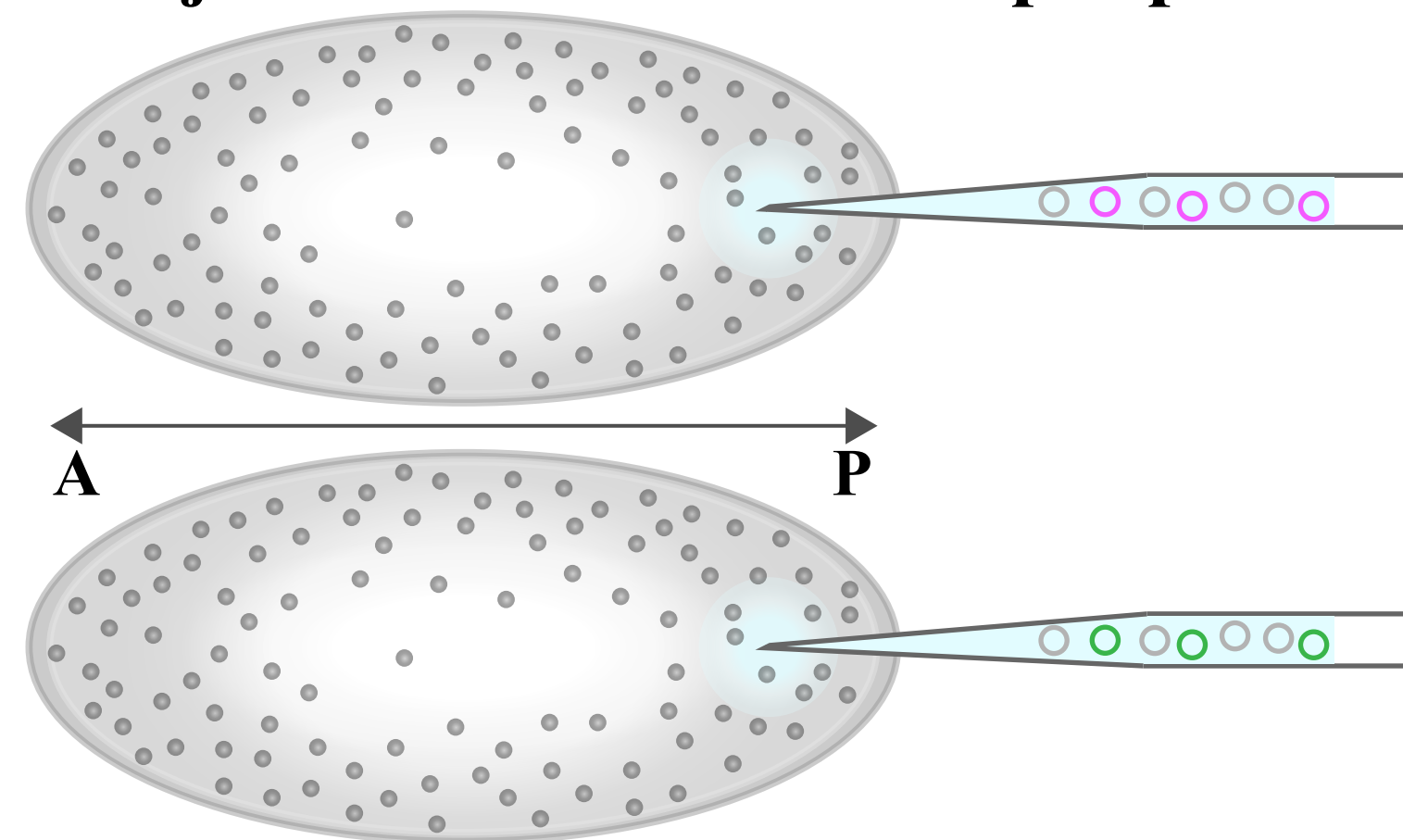
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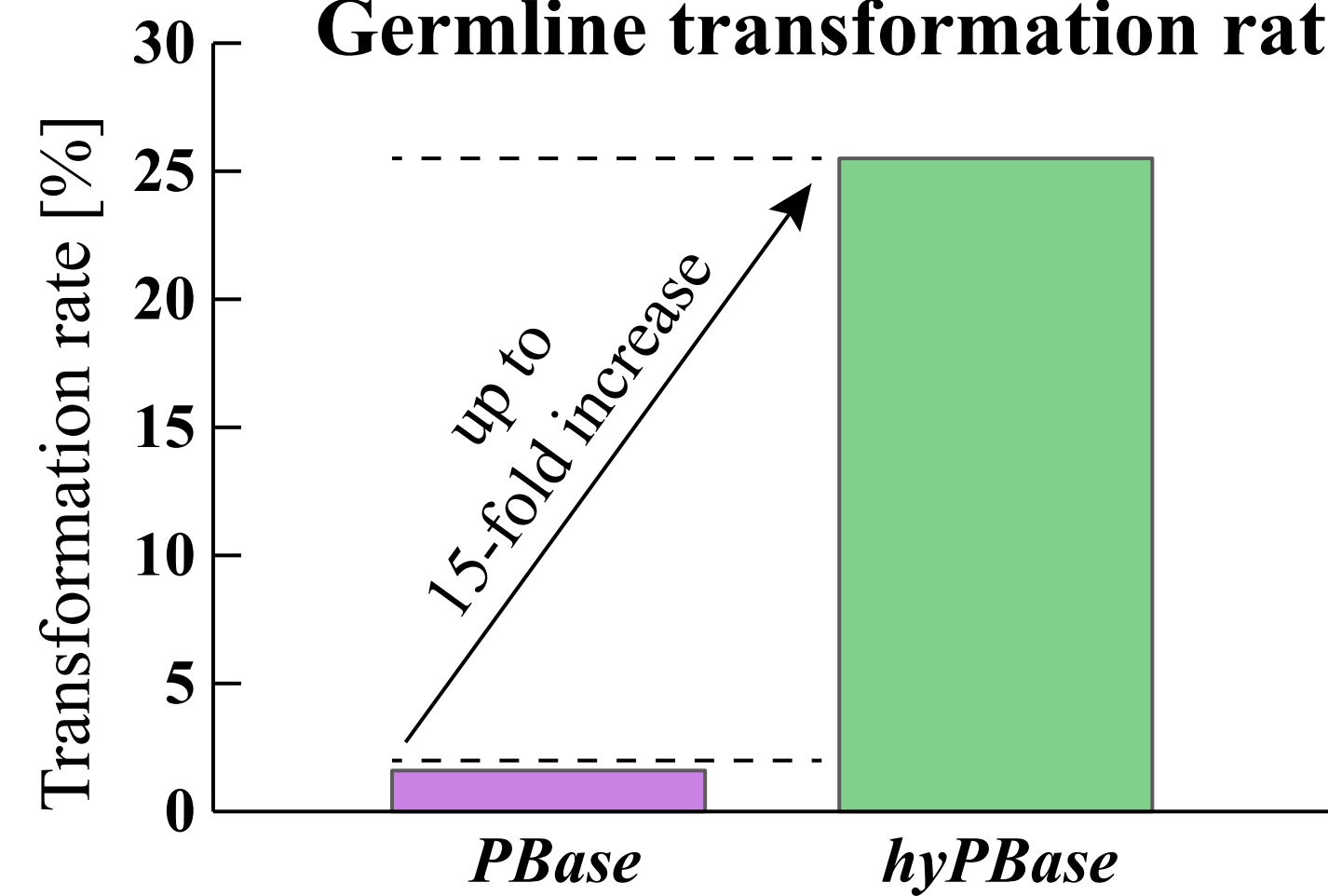
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# Microinjection of donor and helper plasmids into syncytial insect embryo



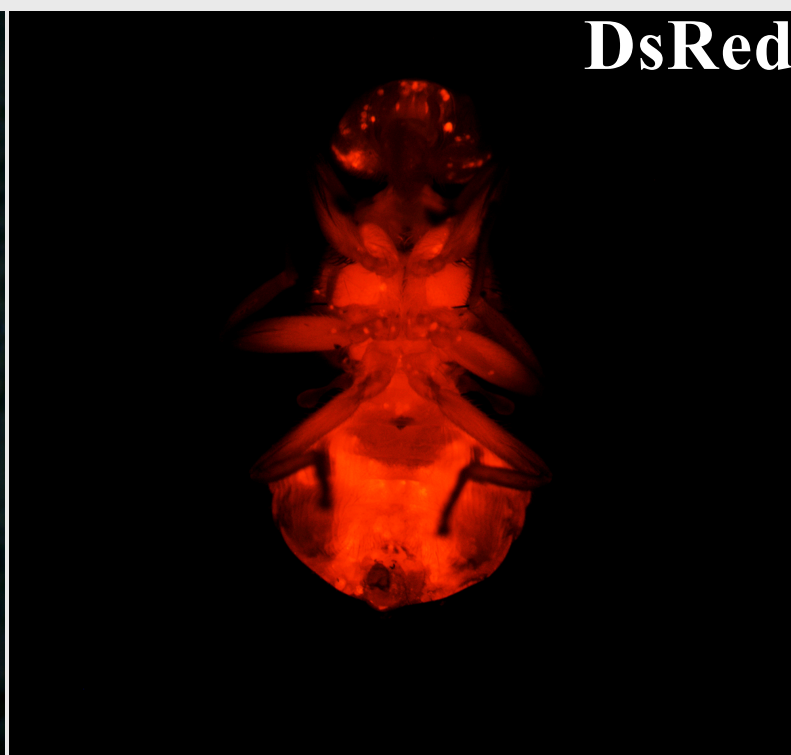
## Germline transformation rate



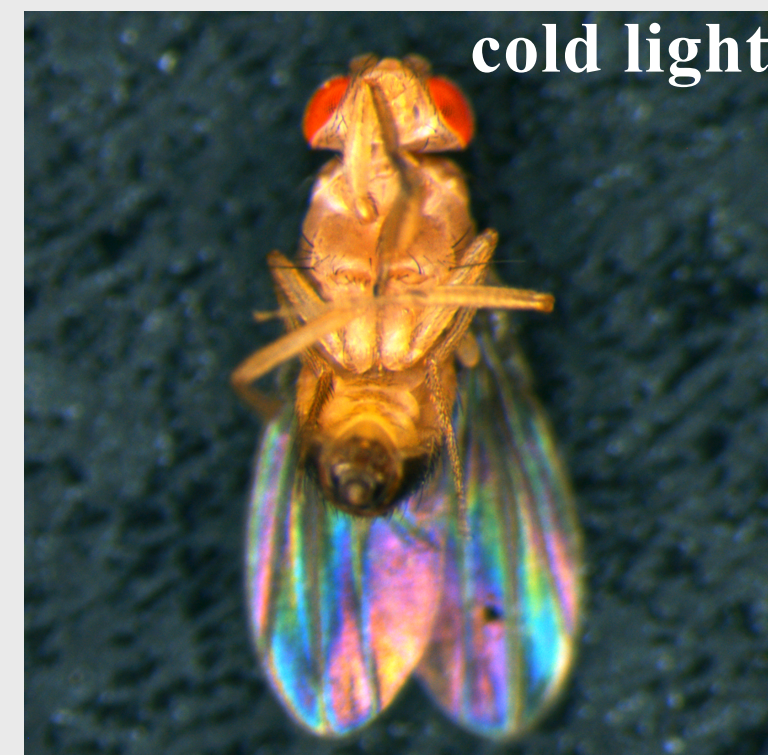
*Tribolium castaneum*: 3xP3-DsRed



*Ceratitis capitata*: PUb-DsRed



*Drosophila melanogaster*: PUb-DsRed





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