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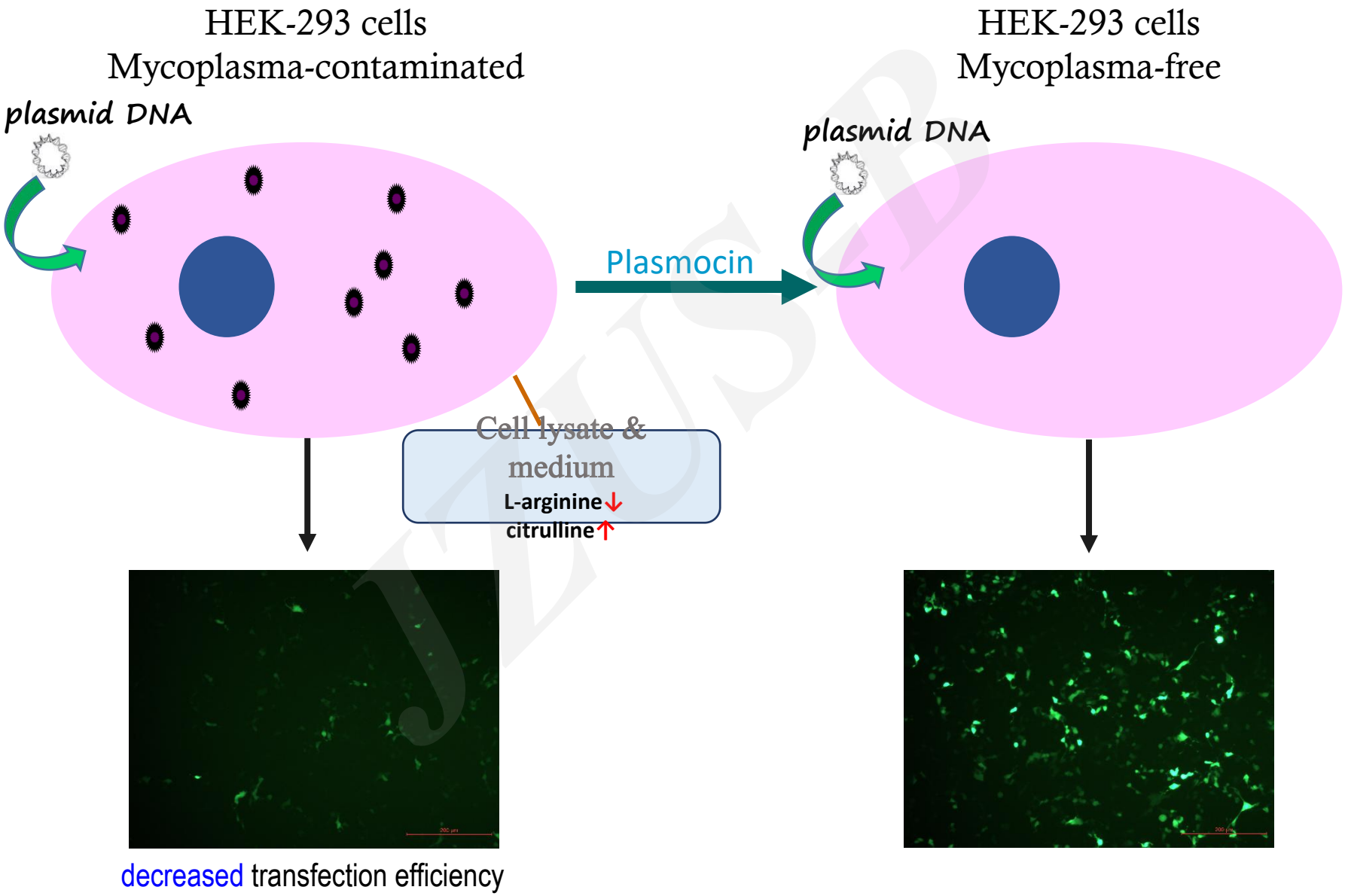
Mycoplasma contamination-mediated attenuation of plasmid DNA transfection efficiency is augmented via L-arginine deprivation in HEK-293 cells

Key words: Mycoplasma, Contamination, Transfection efficiency, HEK-293 cell, Cell culture

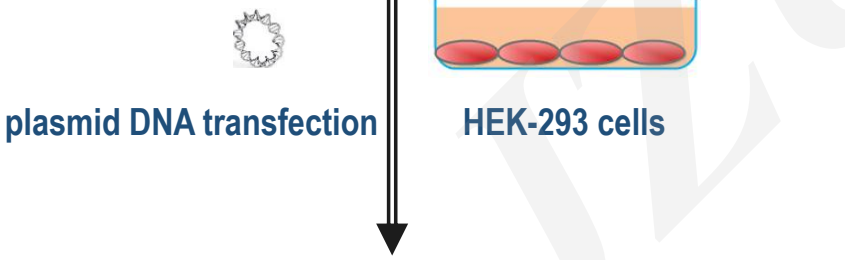
Research Summary



Innovation points

- Mycoplasma, a notorious cell culture contaminant, can remarkably diminish plasmid DNA transfection efficiency in HEK-293 cells.
- This catastrophic effect of poor transfection efficiency is related to L-arginine deprivation in mycoplasma contaminated cells.

Researchers »»»»»» **Attention**



- Monitoring the presence of mycoplasma regularly in HEK-293 cells.
- Utilize anti-mycoplasma treatment (e.g. Plasmocin) promptly and adequately to eliminate mycoplasma contamination if necessary, in order to sustain stable and efficient plasmid DNA transfection efficiency.