



Latvian Biomedical
Research and Study Centre
research and education in biomedicine from genes to human

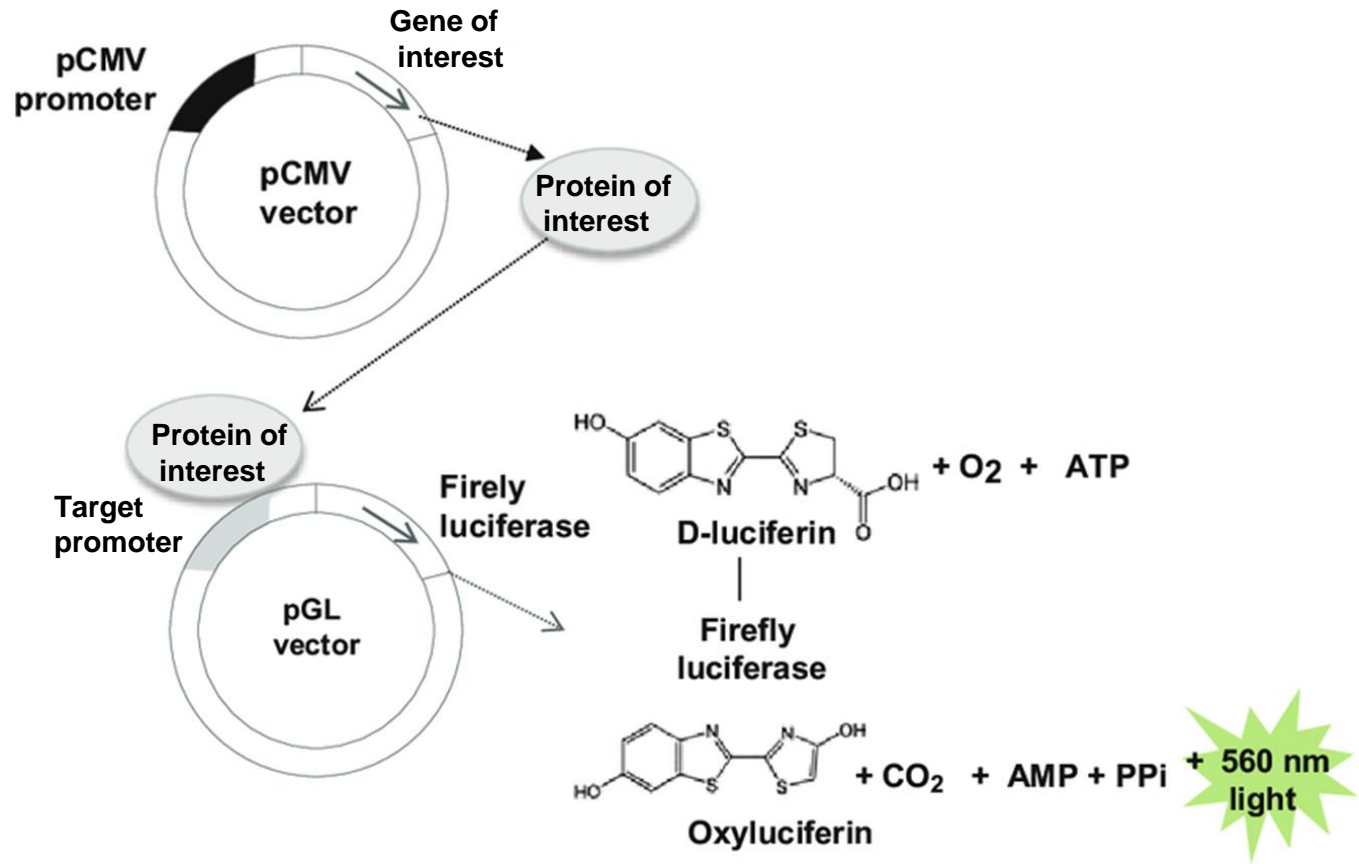
EFFICACY OF CO-TRANSFECTION AND LEVELS OF CO-EXPRESSION OF TWO FLUORESCENT REPORTER PROTEINS IN CO-TRANSFECTED CELLS

Juris Jansons



**“Chronic viral infection and cancer, openings
for vaccines”
December 17, 2021**

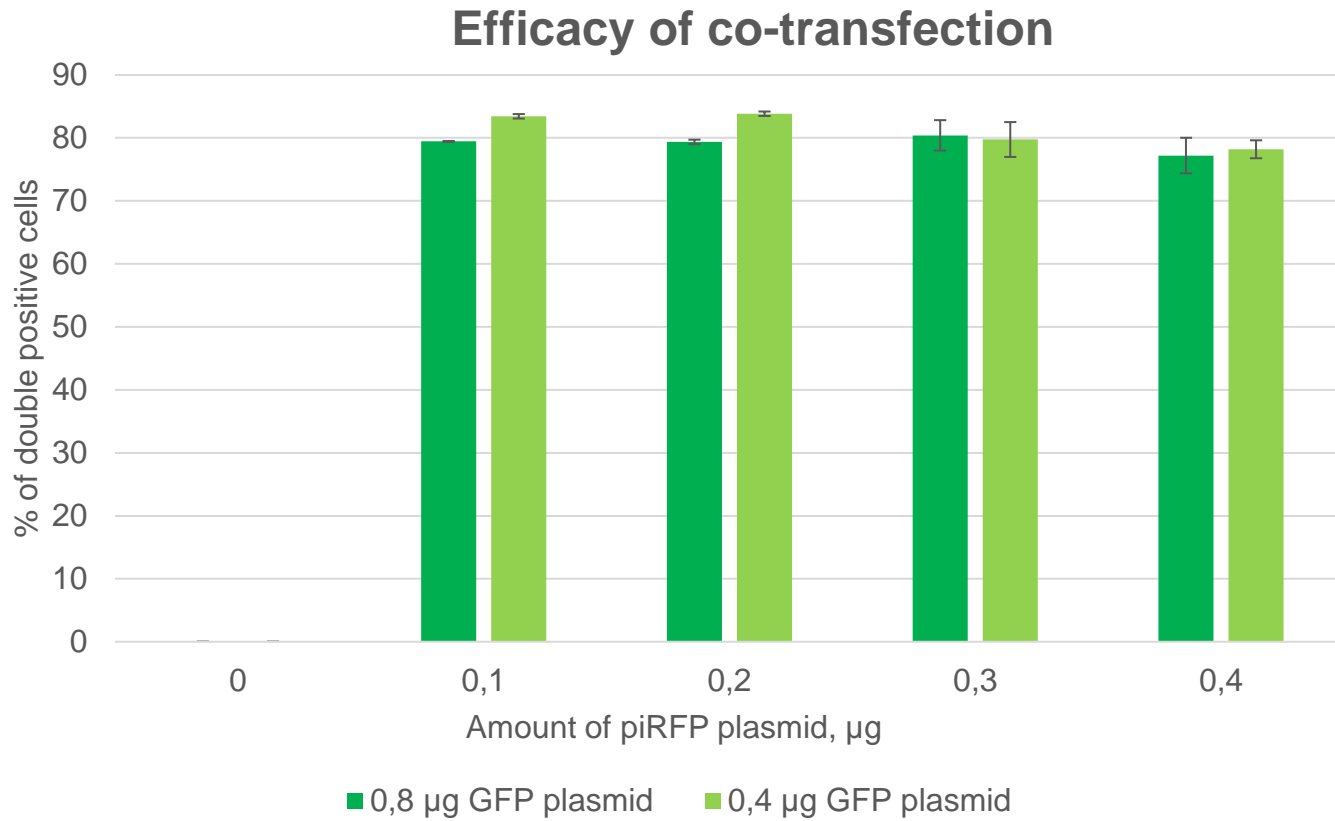
Introduction



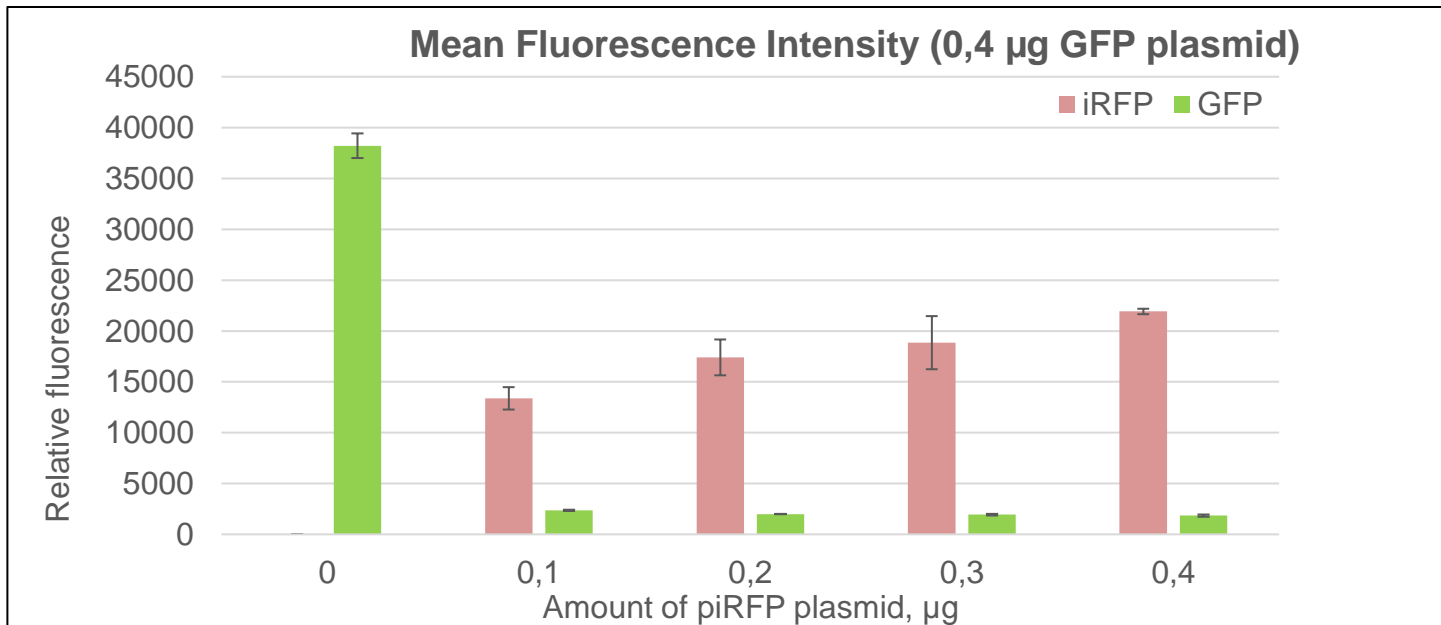
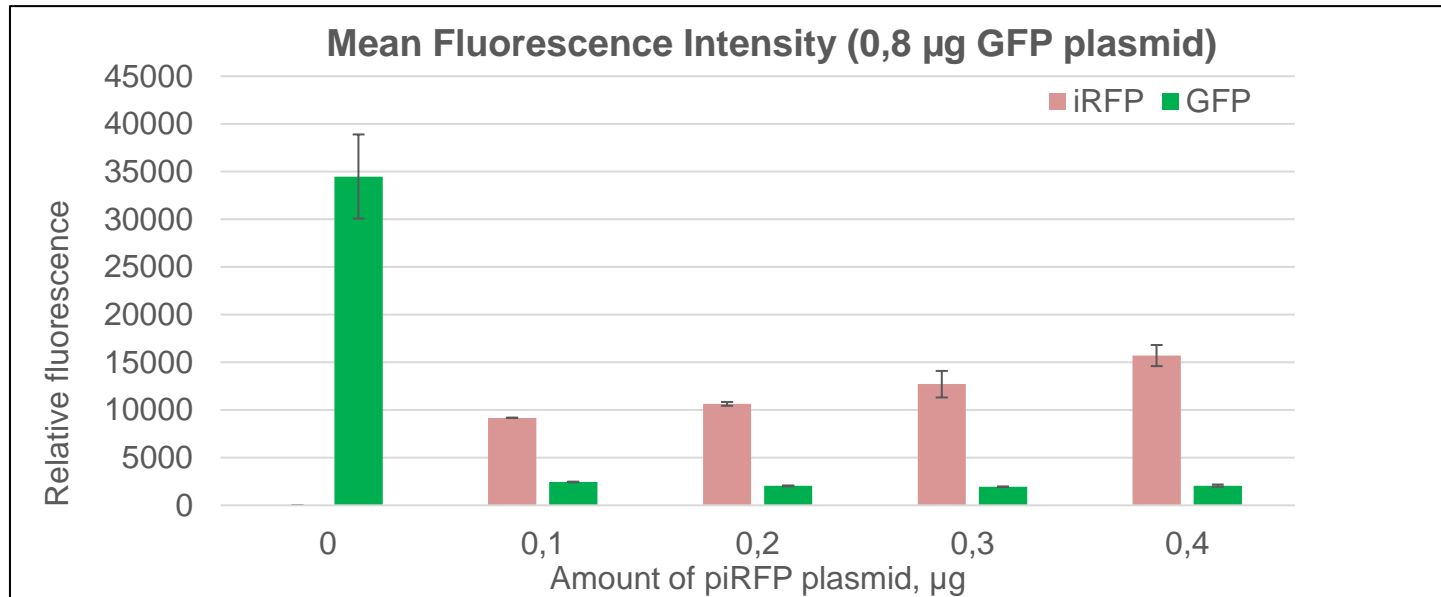
The experiment

- Two plasmids expressing fluorescent proteins under control of CMV promoter: GFP and iRFP670
- Turbofect™ transfected reagent
- Flow cytometry

Results



Results



Conclusions

- Turbofect™ transfection reagent ensures efficient co-delivery of plasmid mixtures into one and the same cells at diverse ratios of plasmids in the mixture (up-to 1:8).
- iRFP670 significantly (up to 90%) inhibits expression of the GFP in co-transfected cells
- It is necessary to keep in mind that test protein can negatively affect the metabolism of the target cell causing an unspecific loss of the reporter signal

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