

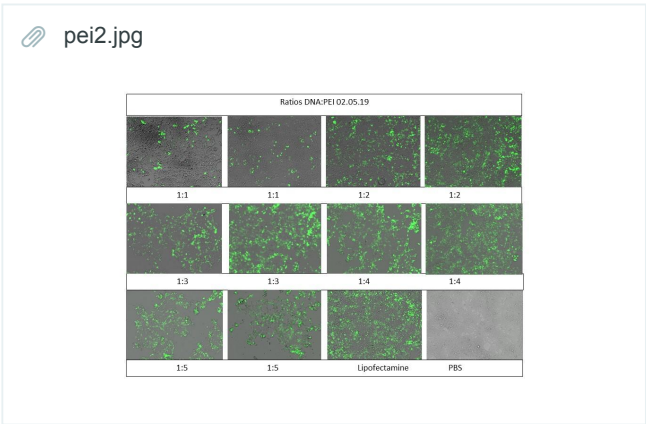
# 04. (April) 2019

**Project:** iGEM\_Munich2019 Shared Project  
**Authors:** Theresa Keil

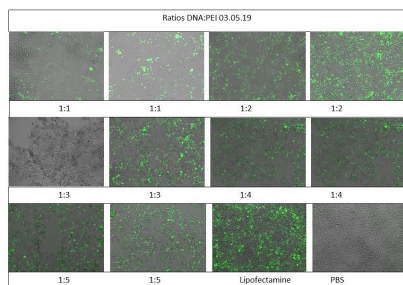
TUESDAY, 30/4/2019

- Test for best PEI concentration for transfection
- 2 controls were transfected according to Lipofectamine 3000 protocol
- postive control: 1 µg eYFP (410 ng/µl)
  - negative control: 2.5 µl PBS (according to volume of eYFP)
- 5 different DNA:PEI ratios were transfected
- 100 µl Opti-MEM were mixed with 1 µg DNA and 1 to 5 µg PEI (1mg/ml)

Scheme: PEI Transfection 12-well-plate				
	A	B	C	D
1	1 µg DNA : 1 µg PEI	1 µg DNA : 1 µg PEI	1 µg DNA : 2 µg PEI	1 µg DNA : 2 µg PEI
2	1 µg DNA : 3 µg PEI	1 µg DNA : 3 µg PEI	1 µg DNA : 4 µg PEI	1 µg DNA : 4 µg PEI
3	1 µg DNA : 5 µg PEI	1 µg DNA : 5 µg PEI	positive control	negative control



pei3.jpg



Well 5: Made mistake while taking the pictures, saved the fluorescence pic of well 4 twice  
but well showed similar fluorescence as well 6

saw the highest amounts of fluorescence in the DNA:PEI ratios 1:2 and 1:3, for higher concentrations the viability was lower