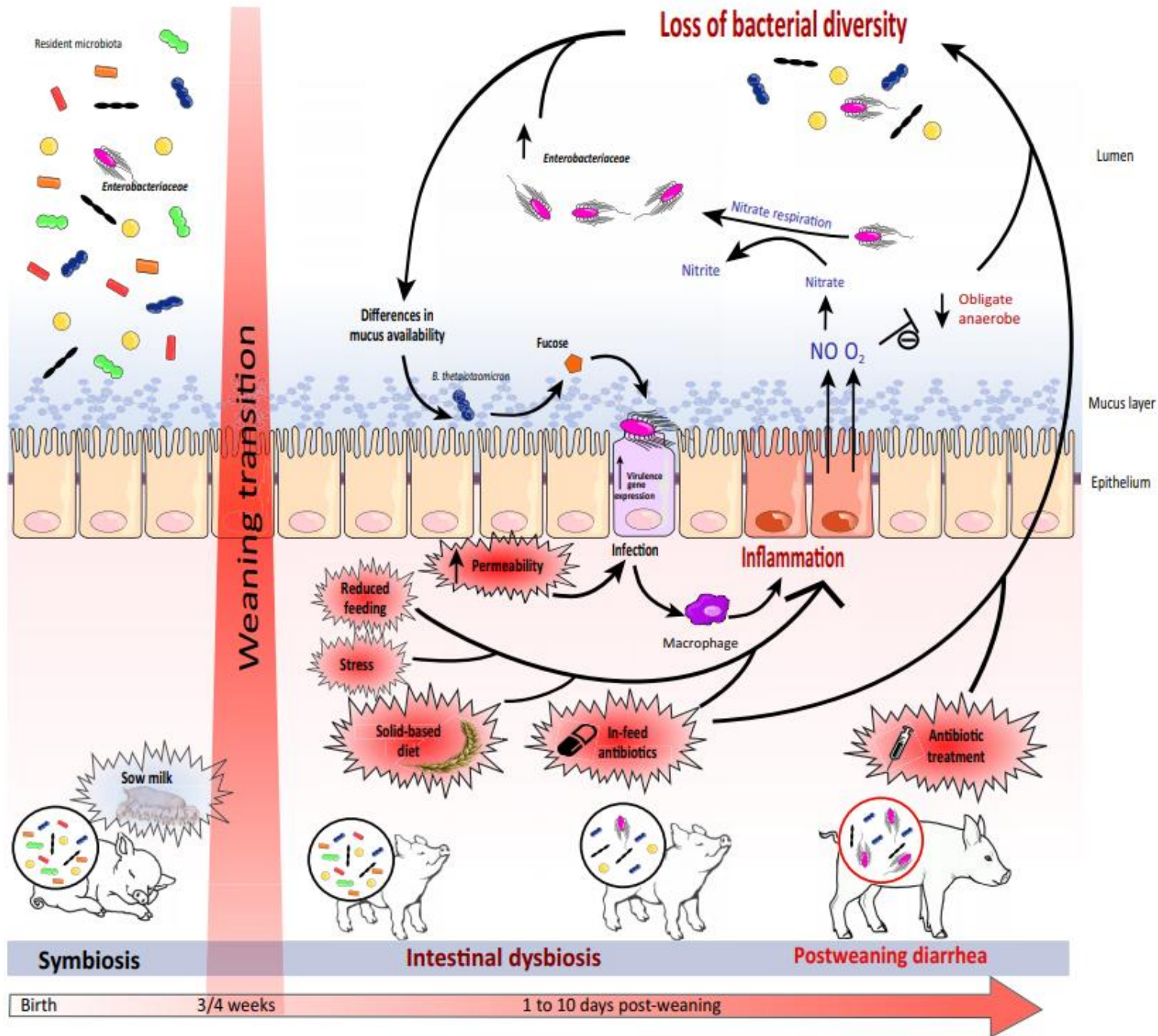


Vitafibra, a unique health fiber, as a successful part of zinc oxide replacement

Maartje De Vos



Background



Gresse et al. 2017

Vitazero: creating an exogenous defence shield

1 Killing bacteria

2 Prevention of adhesion

3 Fortifying gut barrier

4 Blocking immune response



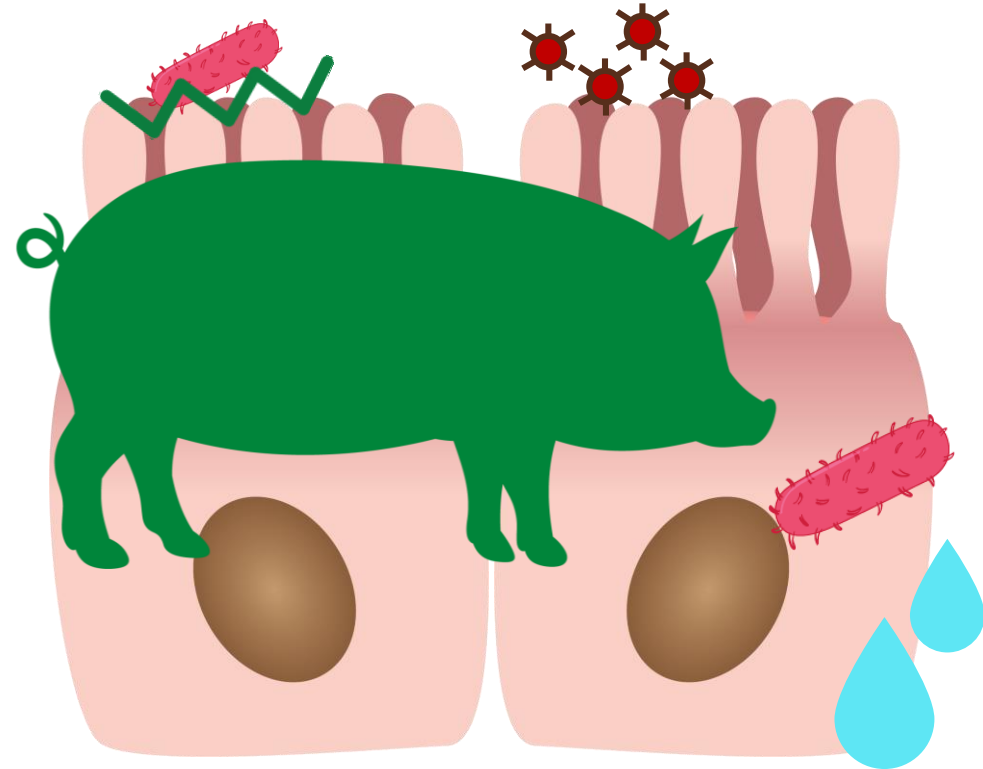
Prevention of adhesion

1 Ingestion of pathogenic ETEC

2 ETEC attaches by adhesion factors (fimbriae) and colonises the intestine

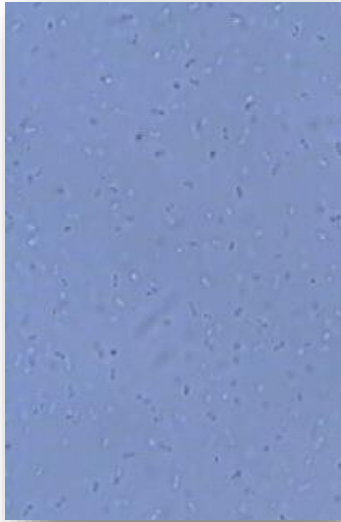
3 ETEC produces enterotoxins

4 Toxins lead to water/electrolyte flux imbalance and diarrhoea

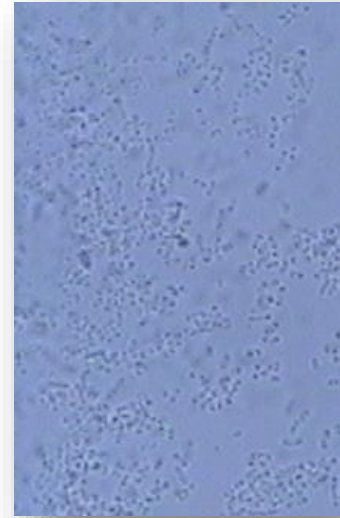
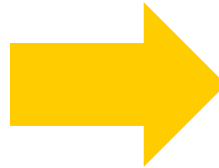


Prevention of adhesion

Agglutination gut pathogens



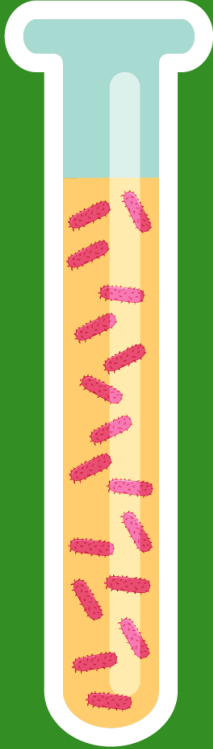
Non-agglutinated *E. Coli*
before use Vitafibra



Agglutinated *E. Coli*
after use Vitafibra

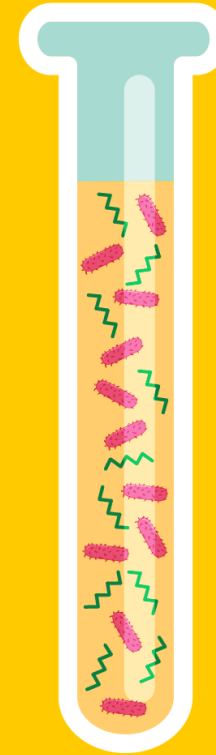
Prevention of adhesion

E. coli



100%
E.COLI

E. coli + vitafibra



VITAFIBRA



E. COLI

Prevention of adhesion

E. coli



E. coli + vitafibra



VITAFIBRA



E. COLI



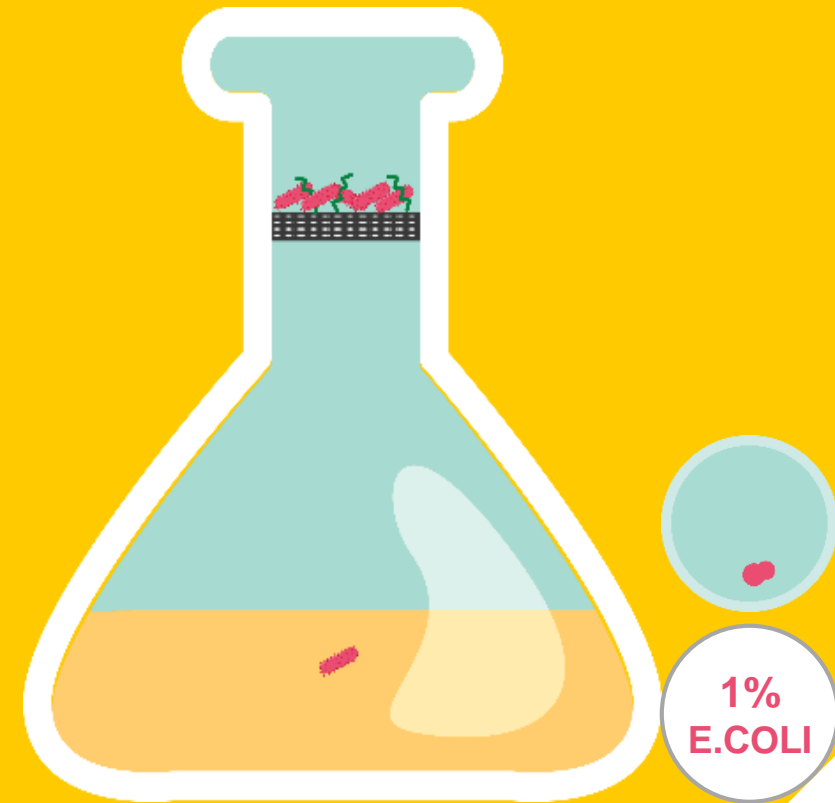
FILTER

Prevention of adhesion

E. coli



E. coli + vitafibra



VITAFIBRA

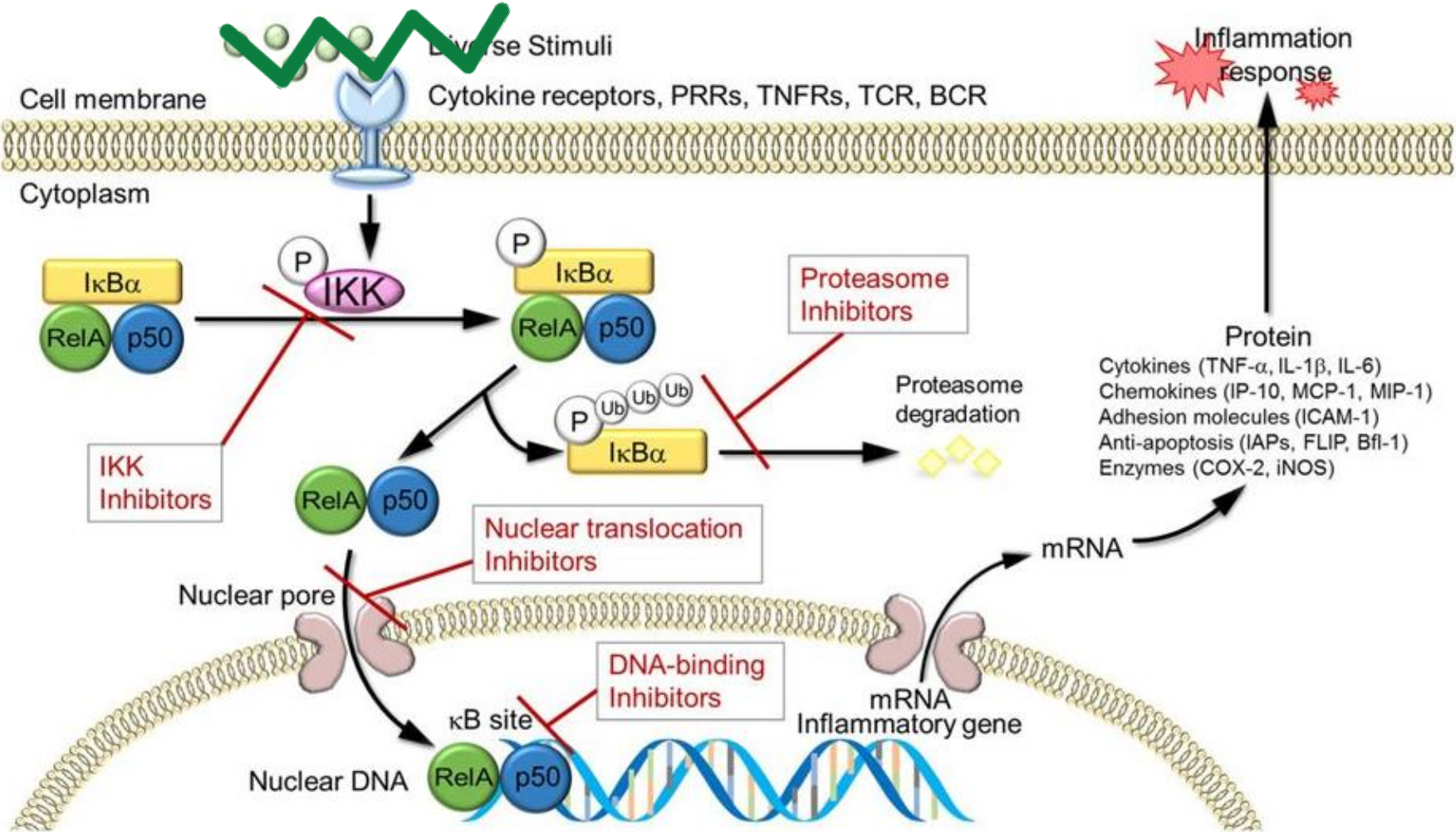


E. COLI

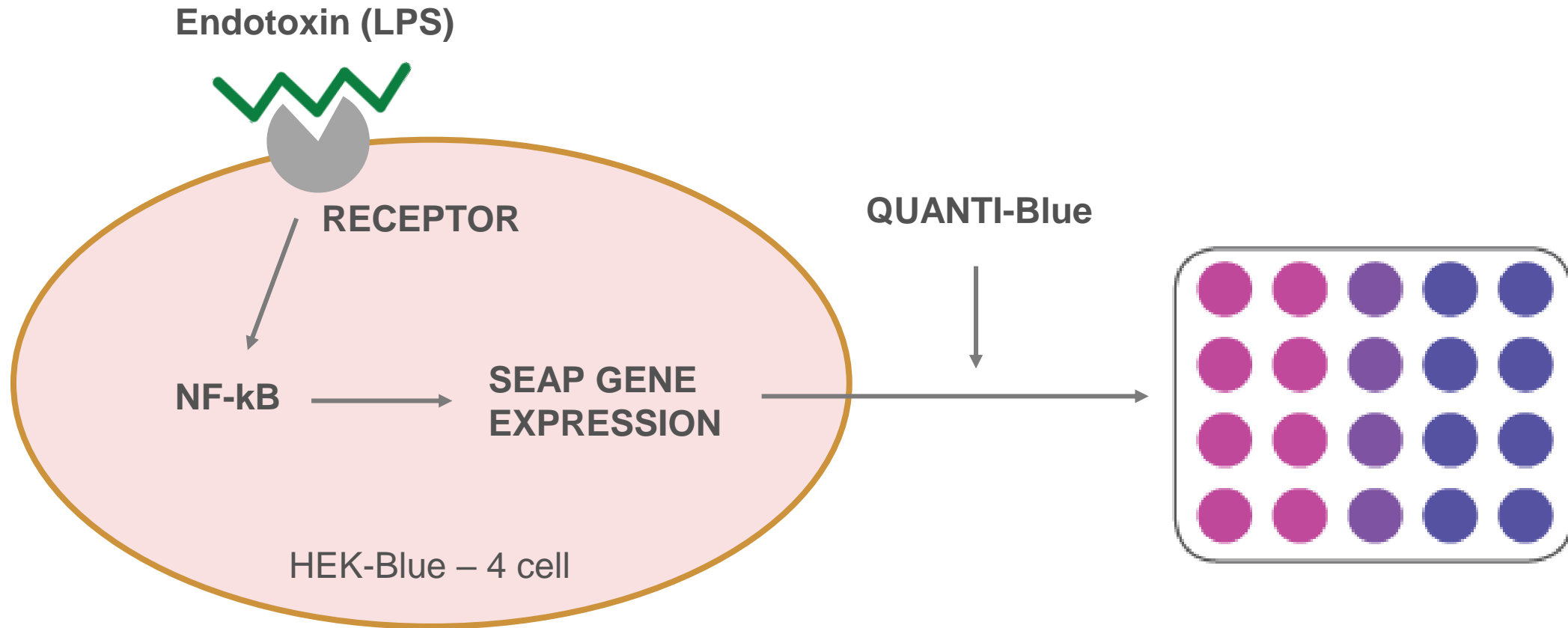


FILTER



Blocking immune receptors



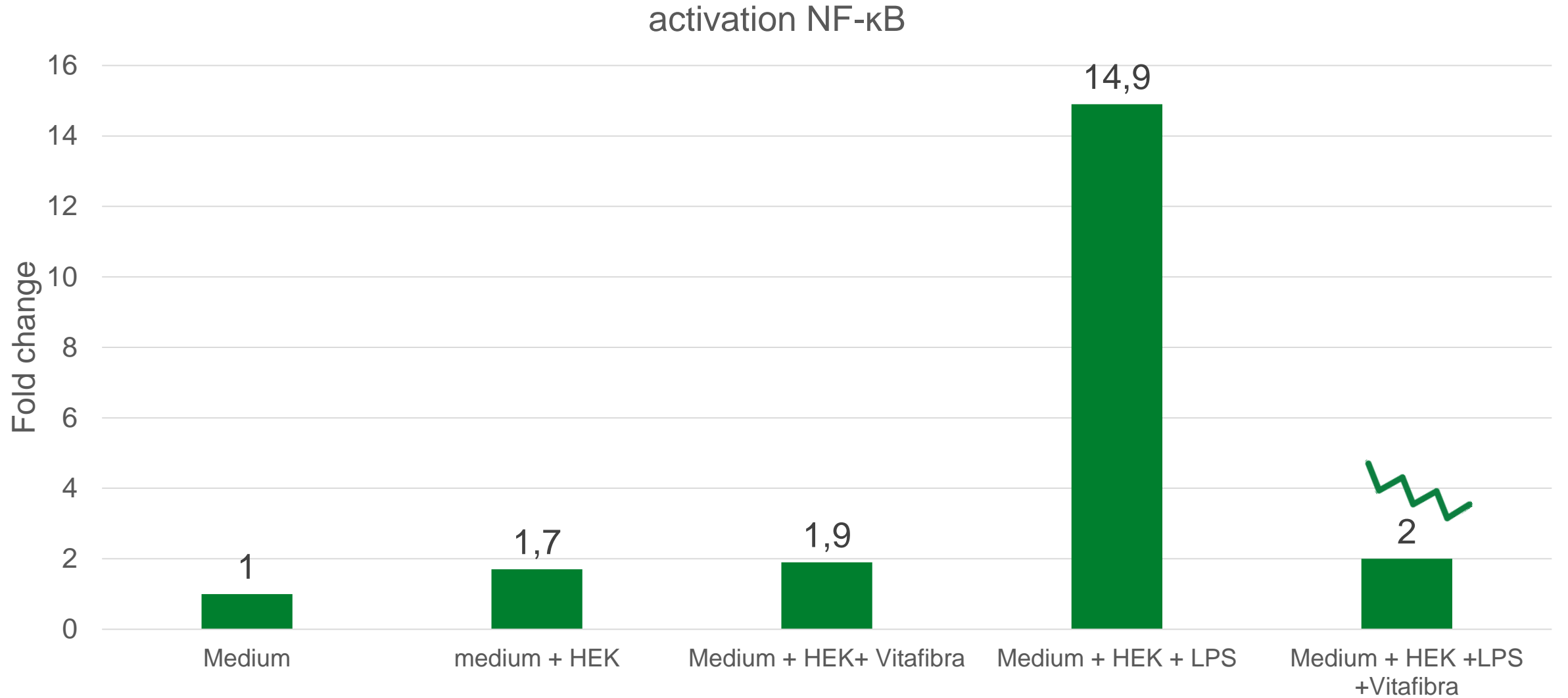
Blocking immune receptors



Blocking immune receptors

Treatment	
T1	Medium
T2	Medium + HEK-blue cells
T3	Medium + HEK-blue cells + 
T4	Medium + HEK-blue cells + LPS
T5	Medium + HEK-blue cells + LPS + 

Blocking immune receptors



Conclusion

RISK OF PATHOGEN OVERGROWTH



STIMULATION OF INFLAMMATION



JOIN OUR LIVING LAB TEAM



**MULTICULTURAL
TEAM**



**INNOVATION
LAB**



**GLOBAL
NETWORK**

*Better
Together*

