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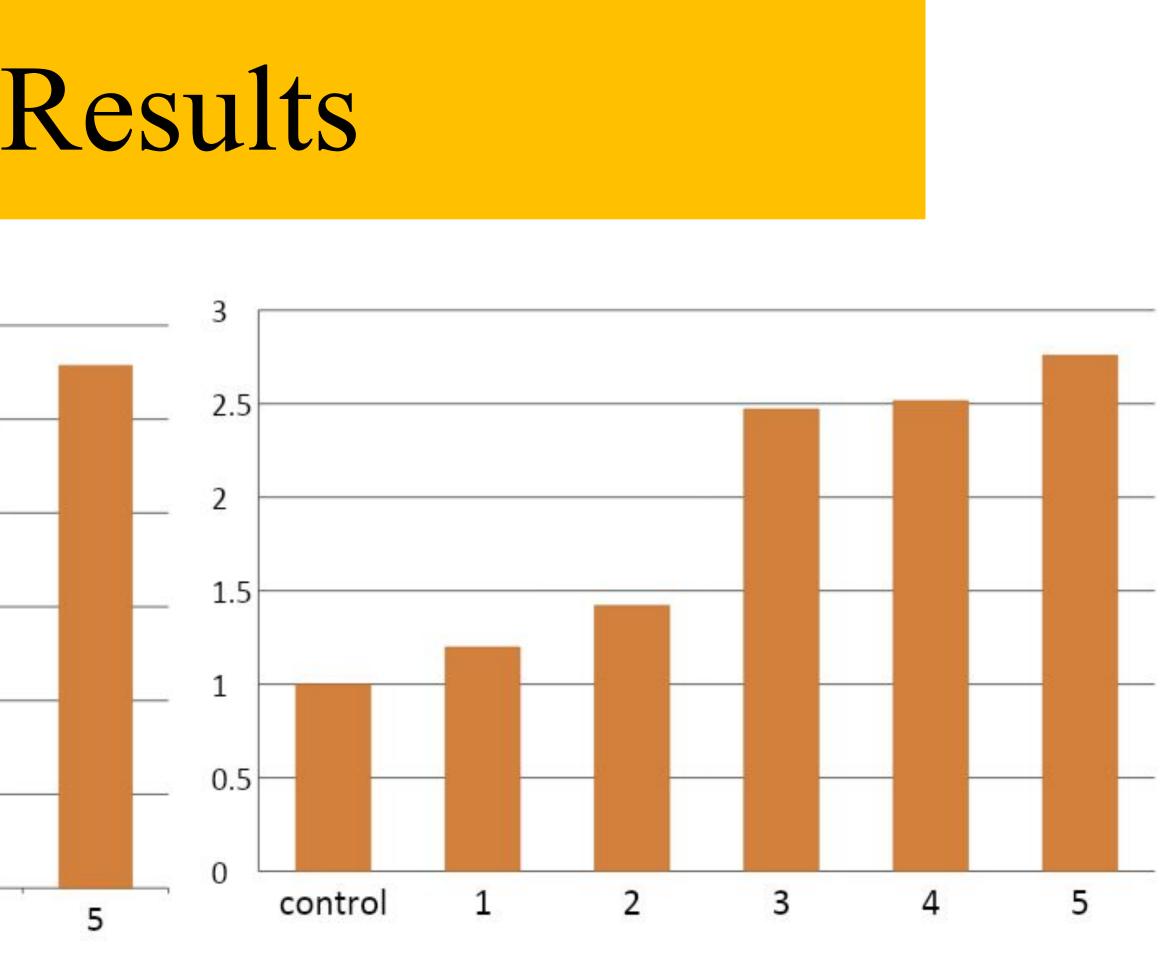
Introduction

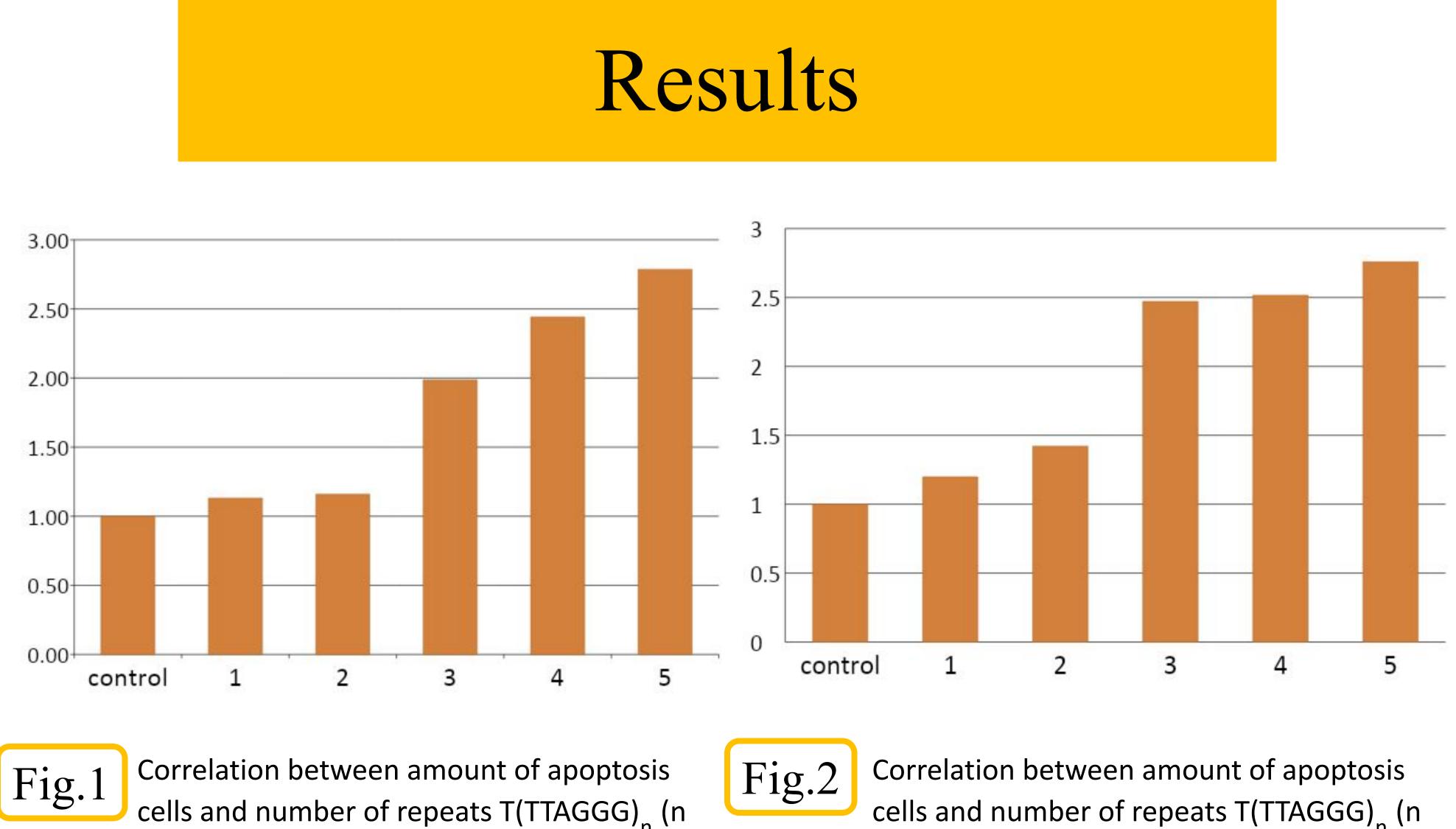
Aims

• Investigate action of ODN on neutrophils apoptosis

•Demonstrate effect of ODN on superoxide production

The effect of sunthetic oligonucleotides on human neutrophils





=1,2,3,4,5) After 4 hours of incubation.

cells and number of repeats T(TTAGGG)_n (n =1,2,3,4,5) After 18 hours of incubation.

Materials and Methods

- shown



Neutrophils were separated from other cells of human's blood. The cells in concentration $2*10^6$ cells/ml were incubated in RPMI with 10% FBS and with the addiction of different oligonucleatides (T=

 $37^{0}C;CO2 = 5\%$). An amount of apoptosis cells was registered by flow cytometry with help propidium iodide(PI).

A number of reactive form of oxygen(ROS) was registered by spectrofluorometry with help fluorescein derivatives, which oxidized in cells and turn into fluorescent product.

Conclusions

Action of ODN on neutrophil's apoptosis was demonstrated.

Correlation between apoptotic cells and length of ODN was

Influence of ODN on superoxide production was revealed