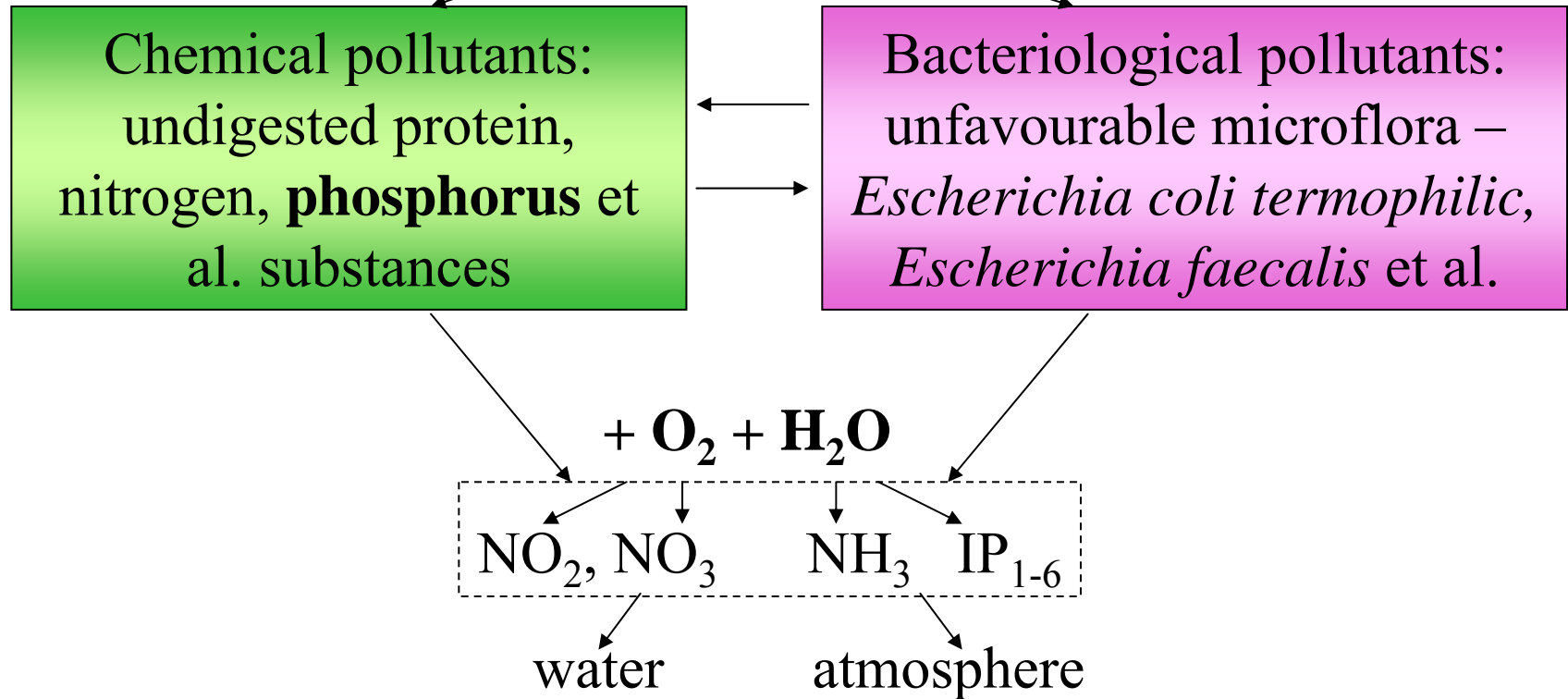


DECREASED PHOSPHORUS EXCRETION WITH POULTRY MANURE BY FEEDING EXTRUDED RAPESEED OILCAKE

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Environment pollutants – composition of poultry manure



Soil → plant → poultry organisms → manure

**The basic method of pollution with
phosphorus decreasing**



**Increase digestibility and utilization
of diets feedstuffs phosphorus substances
in the gut of poultry**



**Use of extruded feedstuffs
in poultry diets**

The aim of our investigations:

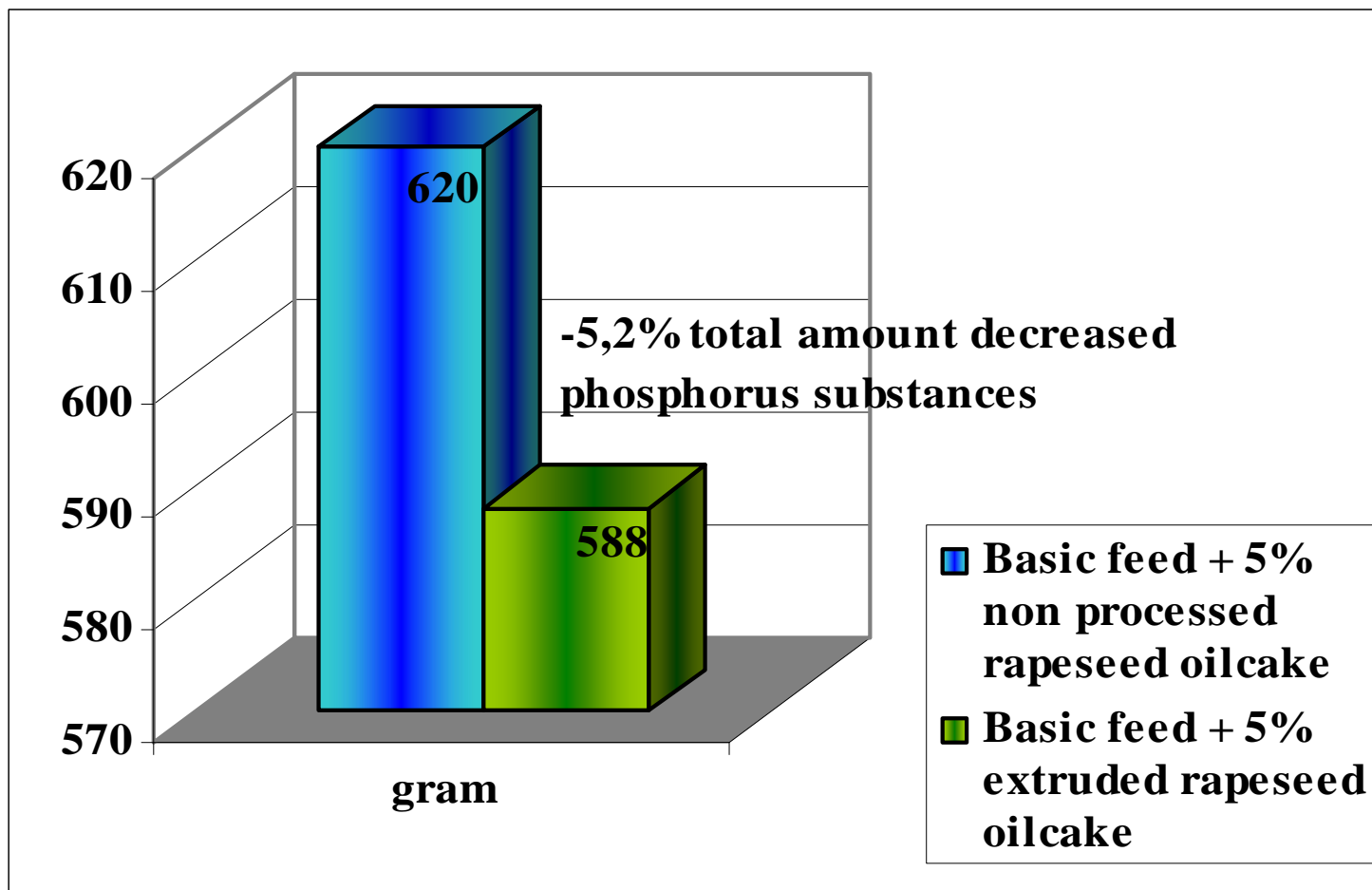
Evaluate comparative feeding with extruded and cold pressed rapeseed oilcake influence on excretion amount of phosphorus substances with broilers and laying hens manure

Scheme of the trial of broilerchickens and laying hens

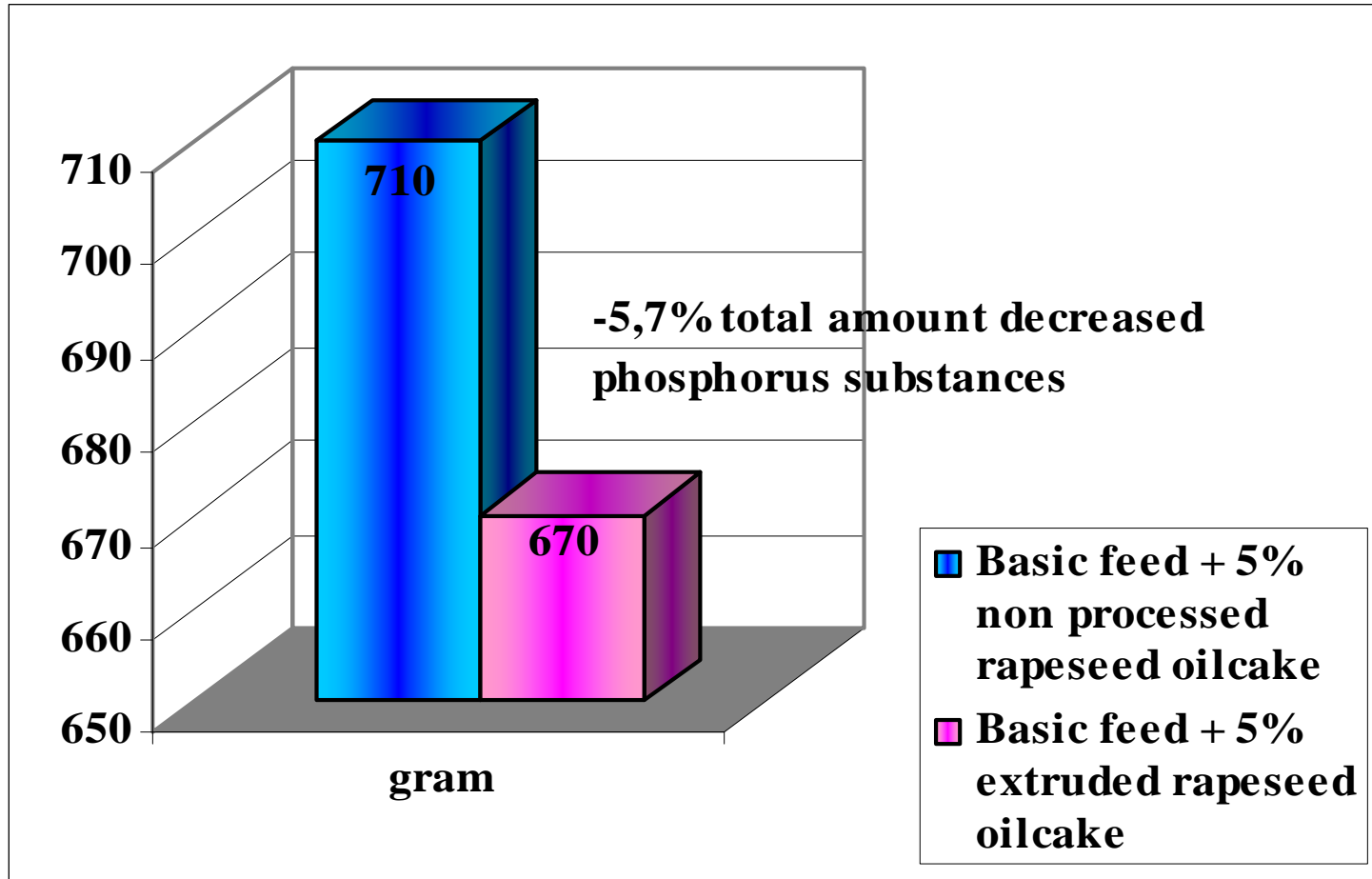
Group	Feeding plan
1st group – control (broilerchickens, laying hens)	Basic feed (BF) + 5% cold pressed (non processed) rapeseed oilcake
2nd group – trial (broilerchickens, laying hens)	Basic feed (BF) + 5% extruded rapeseed oilcake

Available phosphorus in poultry diets – corresponding to commercial recommendations
Rapeseed oilcake extrusion process by parameters: 125°C, 10 bar, 30 s

Decreased phosphorus amount in 1000 broilerchickens daily manure by feeding extruded rapeseed oilcake



Decreased phosphorus amount in 1000 laying hens daily manure by feeding extruded rapeseed oilcake





Conclusions

Feeding broilerchickens and laying hens with extruded rapeseed oilcake reduced the pollution of the environment with non digested phosphorus substances amount

