

Reaction of juvenile  
american toads, *Bufo  
americanus*, on chemical  
cues from predators, Garter  
snake, *Thamnophis sirtalis  
sirtalis*

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## **Aim of the study**

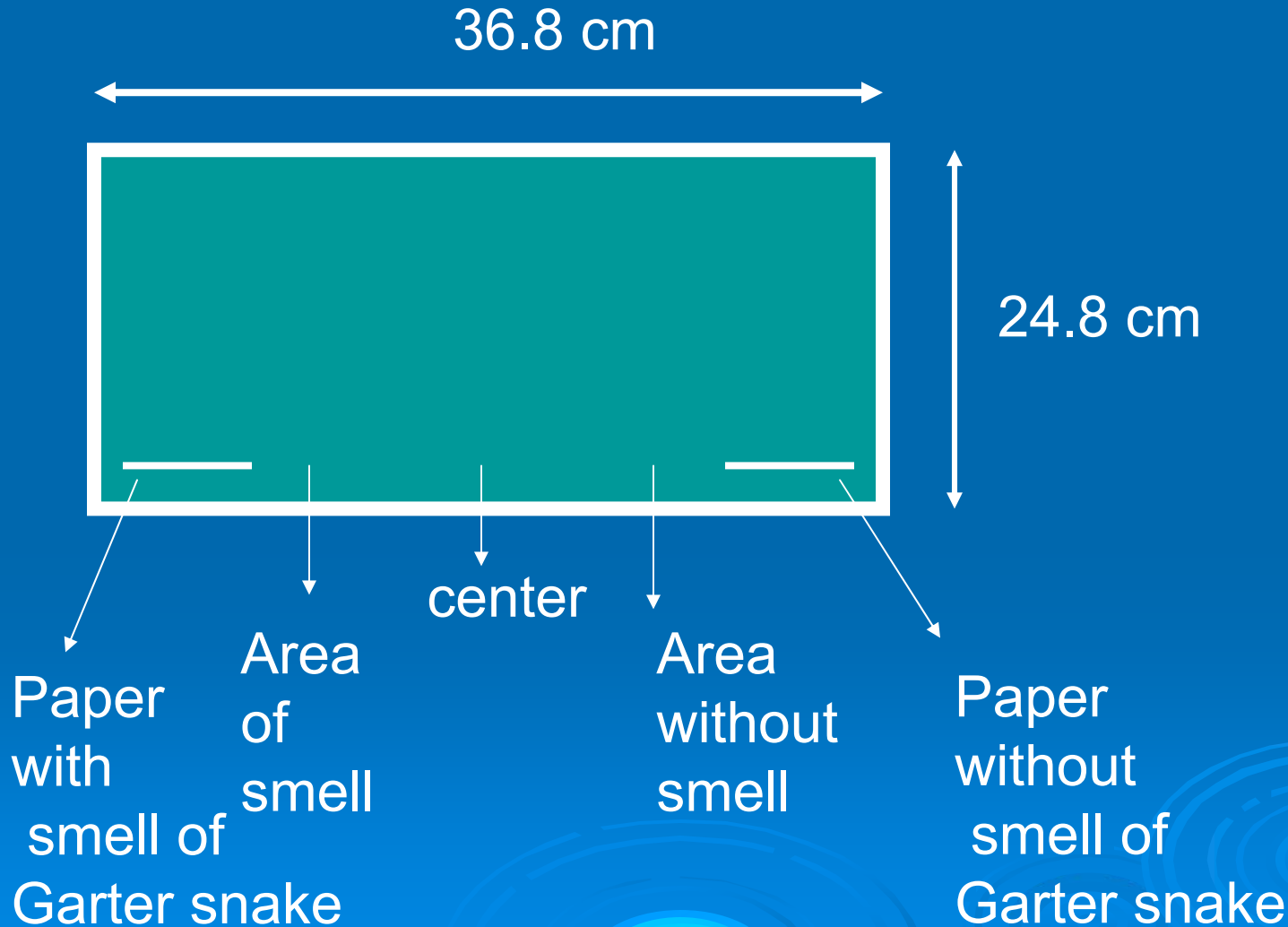
To find out whether juvenile toads recognize the smell of the predator

**We put forward the following questions:**

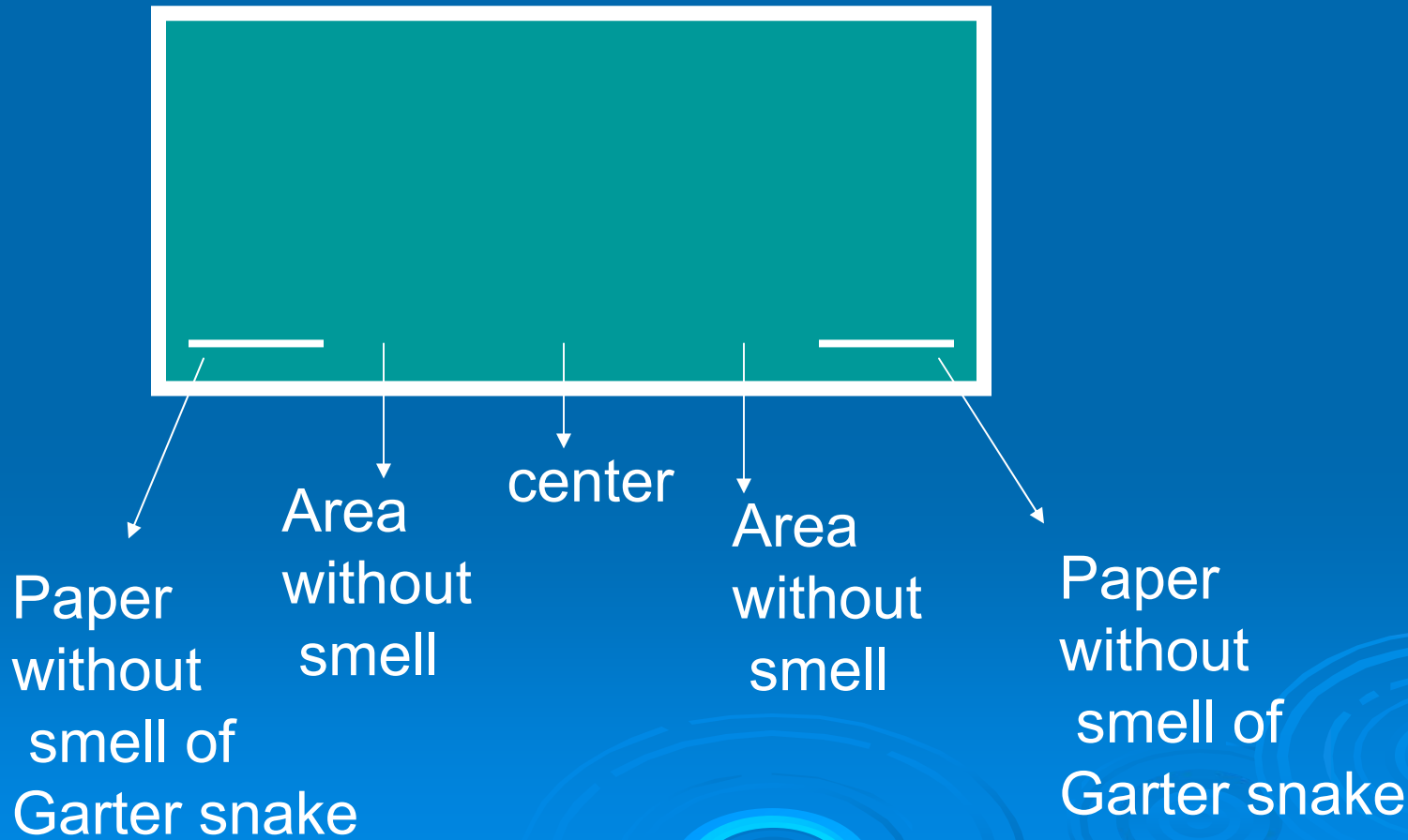
Do toads move away from the smell of the Garter snake?

Could toads choose left or right side of the maze in experiment notwithstanding the position of odorant?

# Methods



# Methods



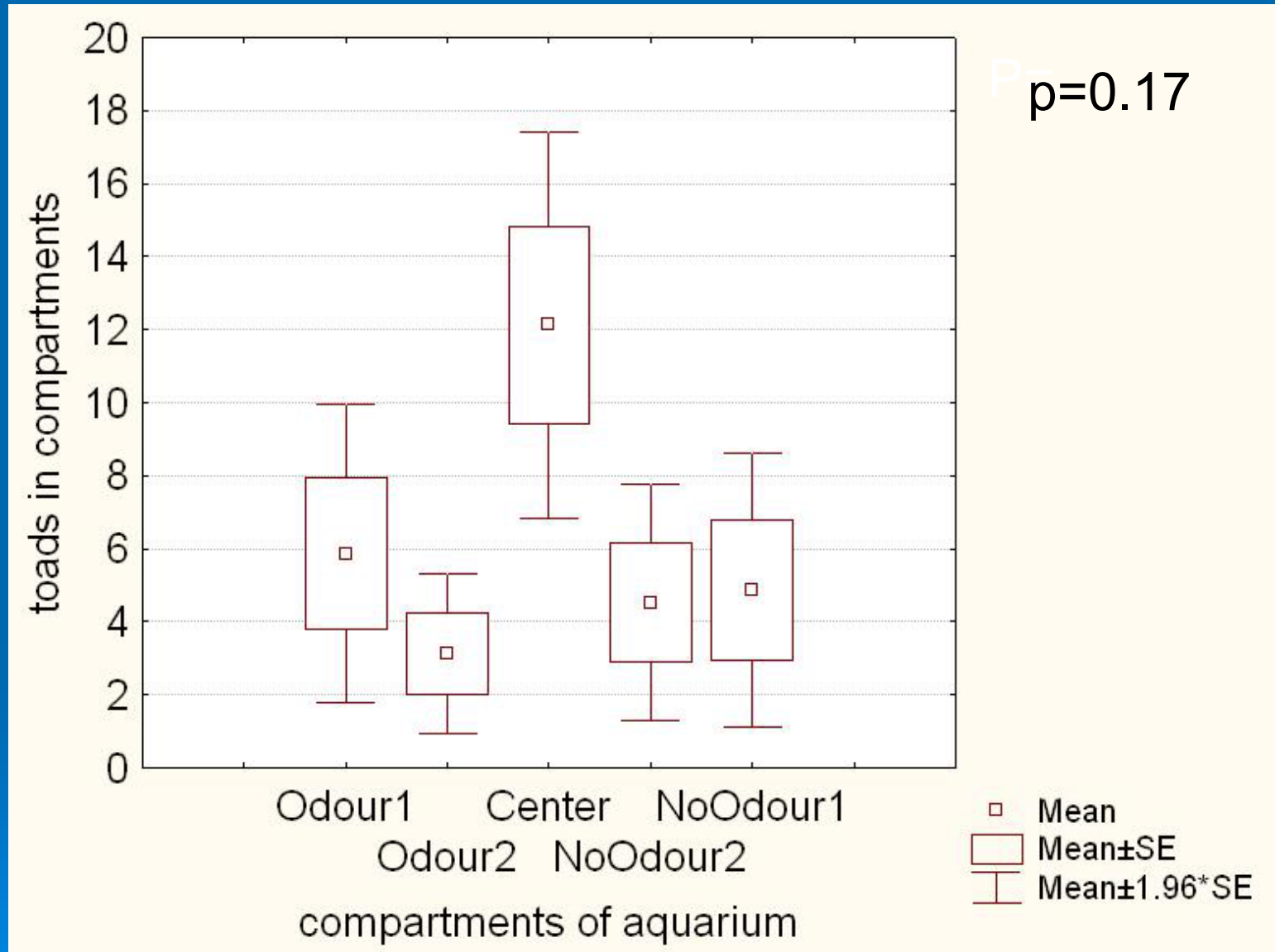


We used  
15 juvenile toads  
*Bufo americanus*  
(the age was  
nearly 1-2  
years old)

We used paper  
with the smell of Garter  
snakes, which were  
not fed

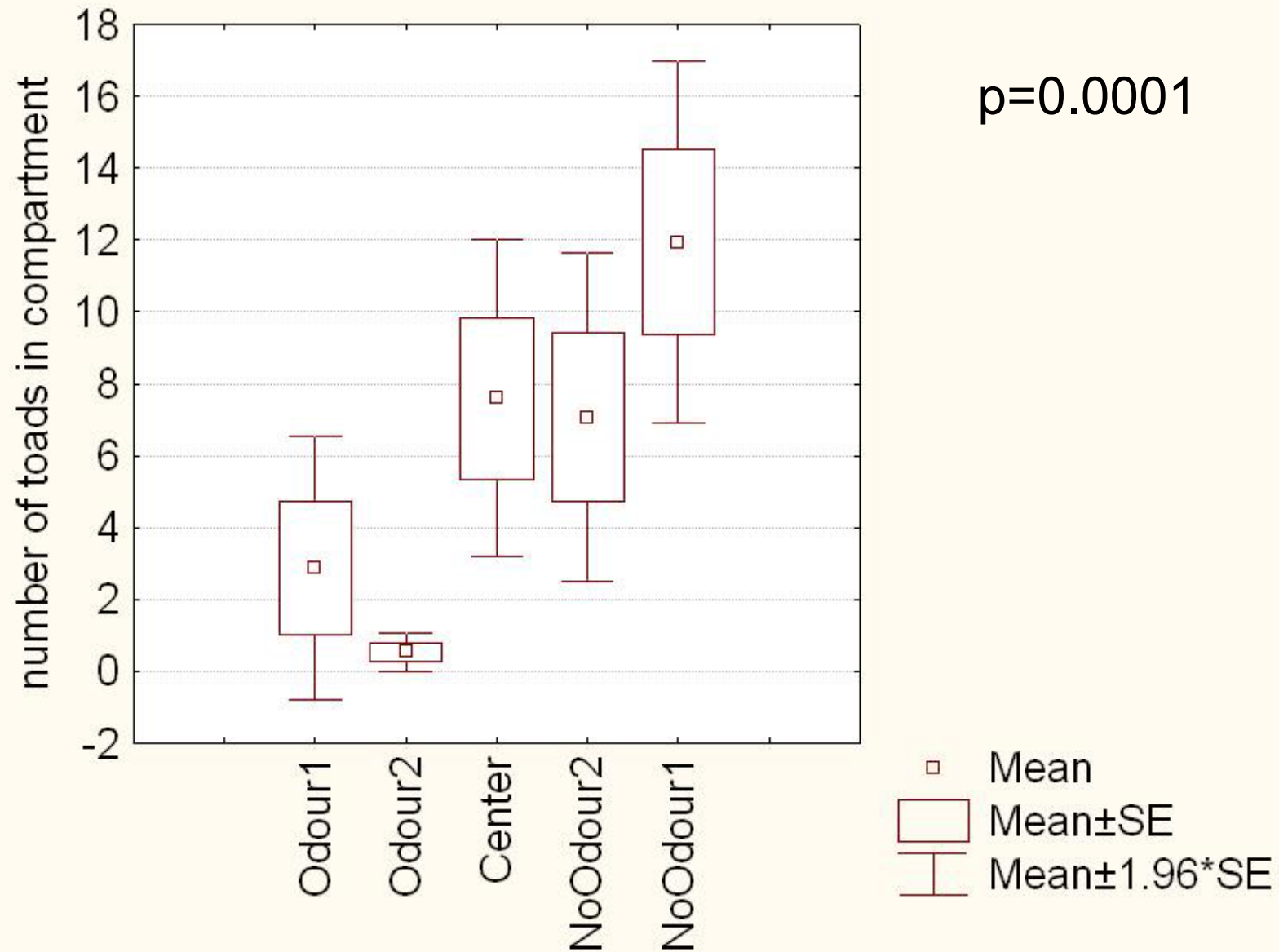


# Results



Toad choice of compartments in the control experiment

# Results

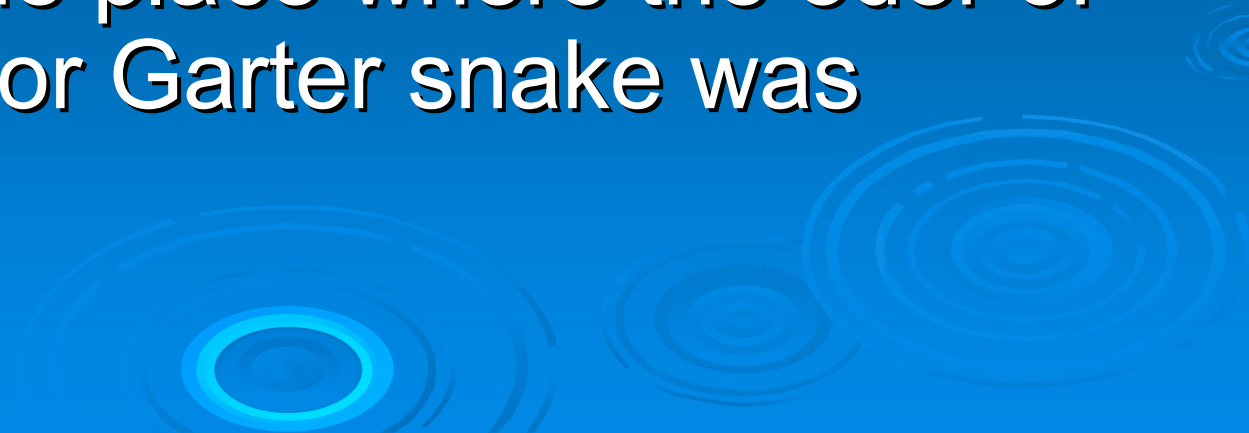


Toad choice in compartments in the experiment with the presence of the smell of Garter snake

# conclusion

In our experiments toads didn't show any preference for the left or right side of the maze

We observed that juvenile toads rejected the place where the odor of the predator Garter snake was present





# Discussion

Juvenile toads afraid of the chemical stimuli of snakes, which could be dangerous for toads in their habitats

We could assume that these chemical stimuli are perceived by means of olfaction

Thank you for attention

Sorry for my English

