

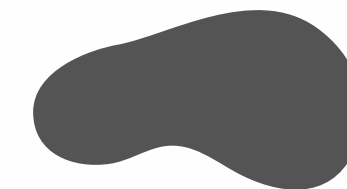
# Feasibility of DREADDs in NHP

Leafy Behera

SURGE Roll no: 2142500

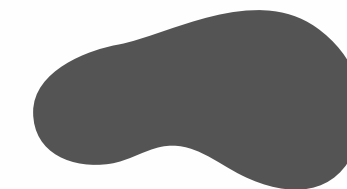


# Current scenario



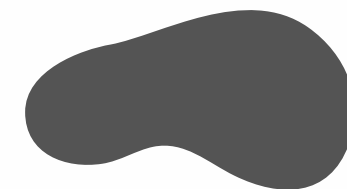


# Current scenario



20%





# Current scenario

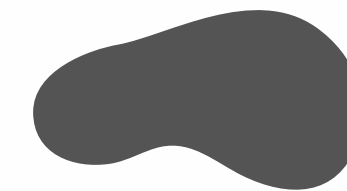
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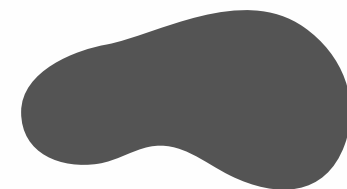


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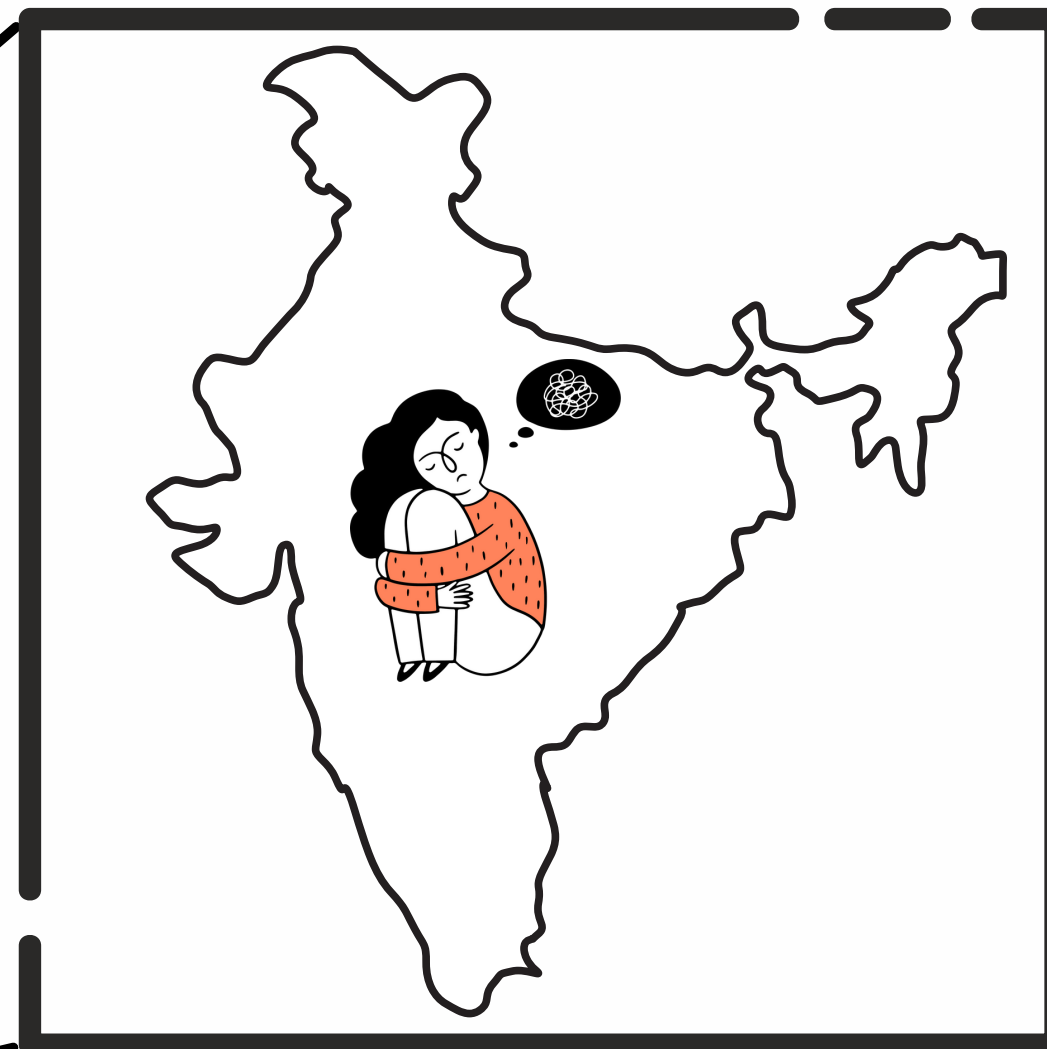
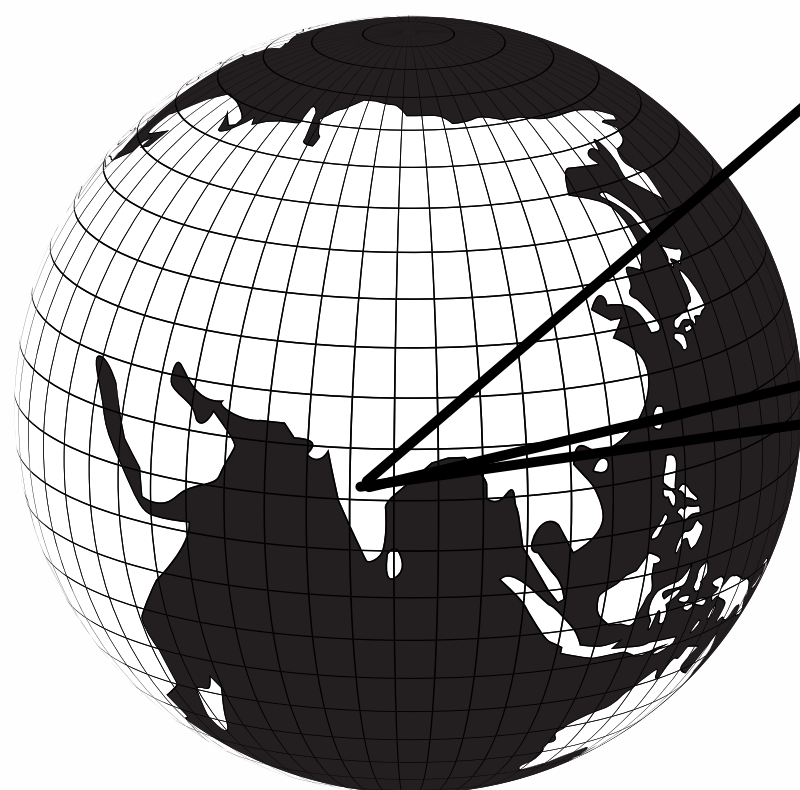


# Current scenario





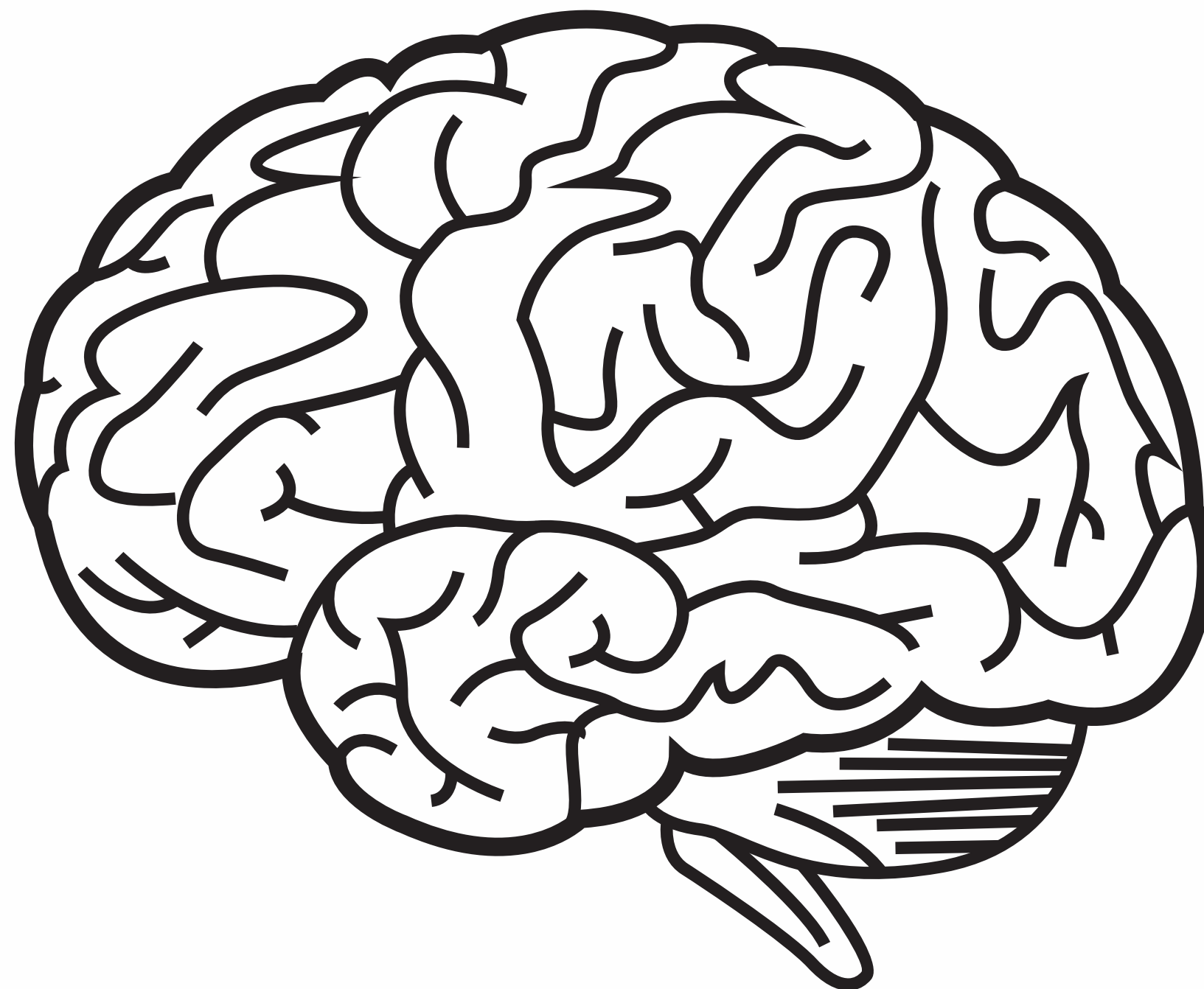
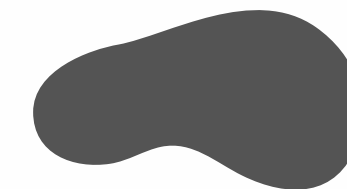
Current scenario



7.5%

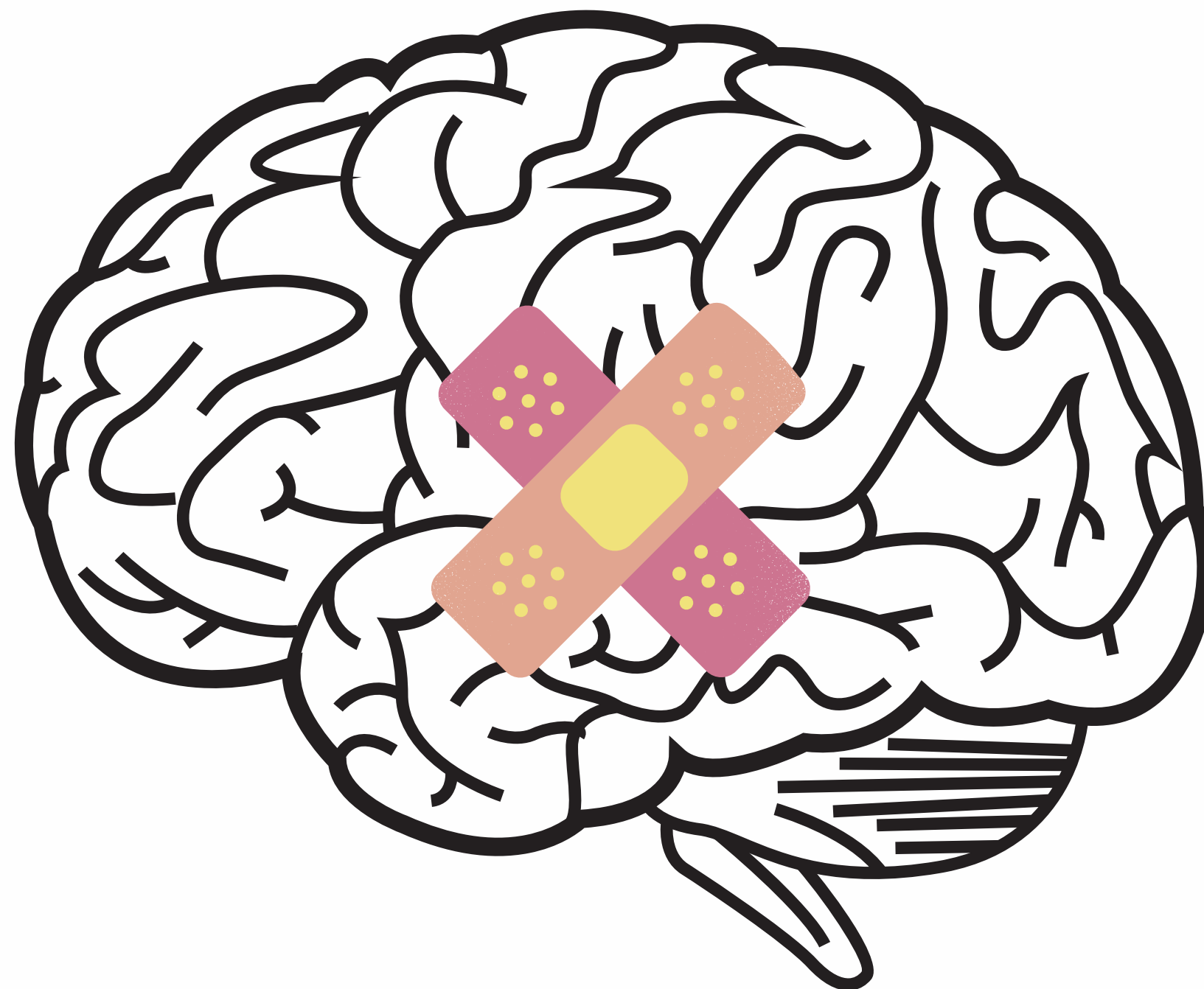
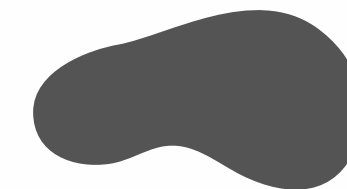


# Causational approach





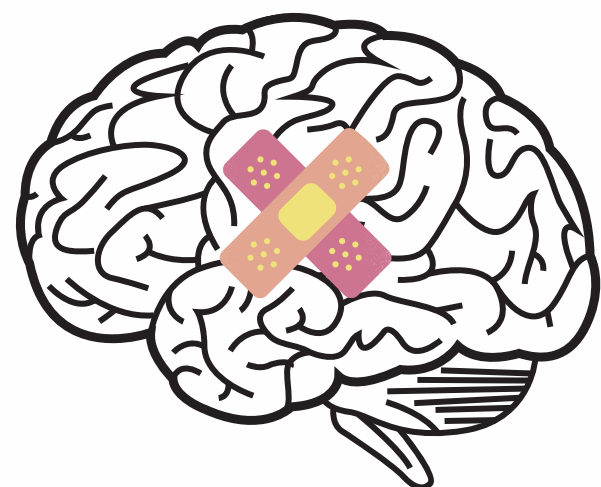
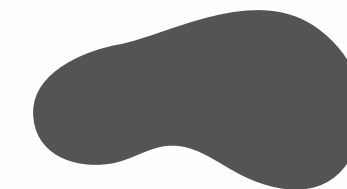
# Causational approach





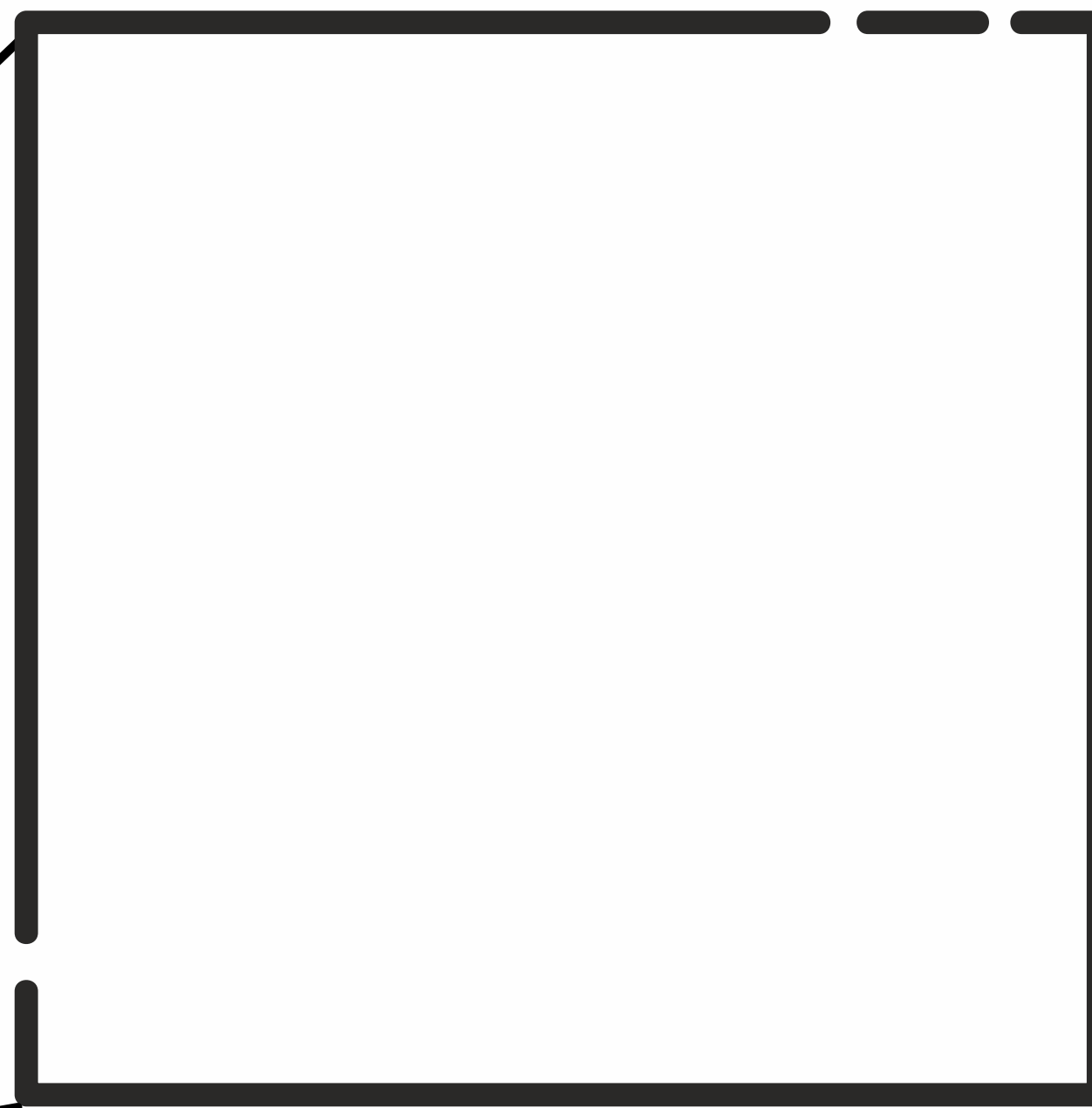
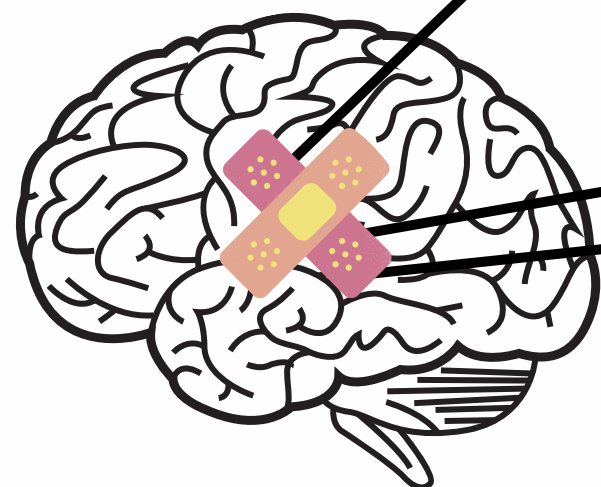
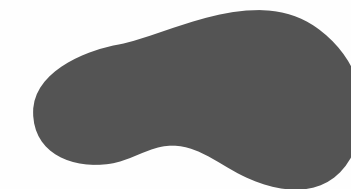


# Causational approach



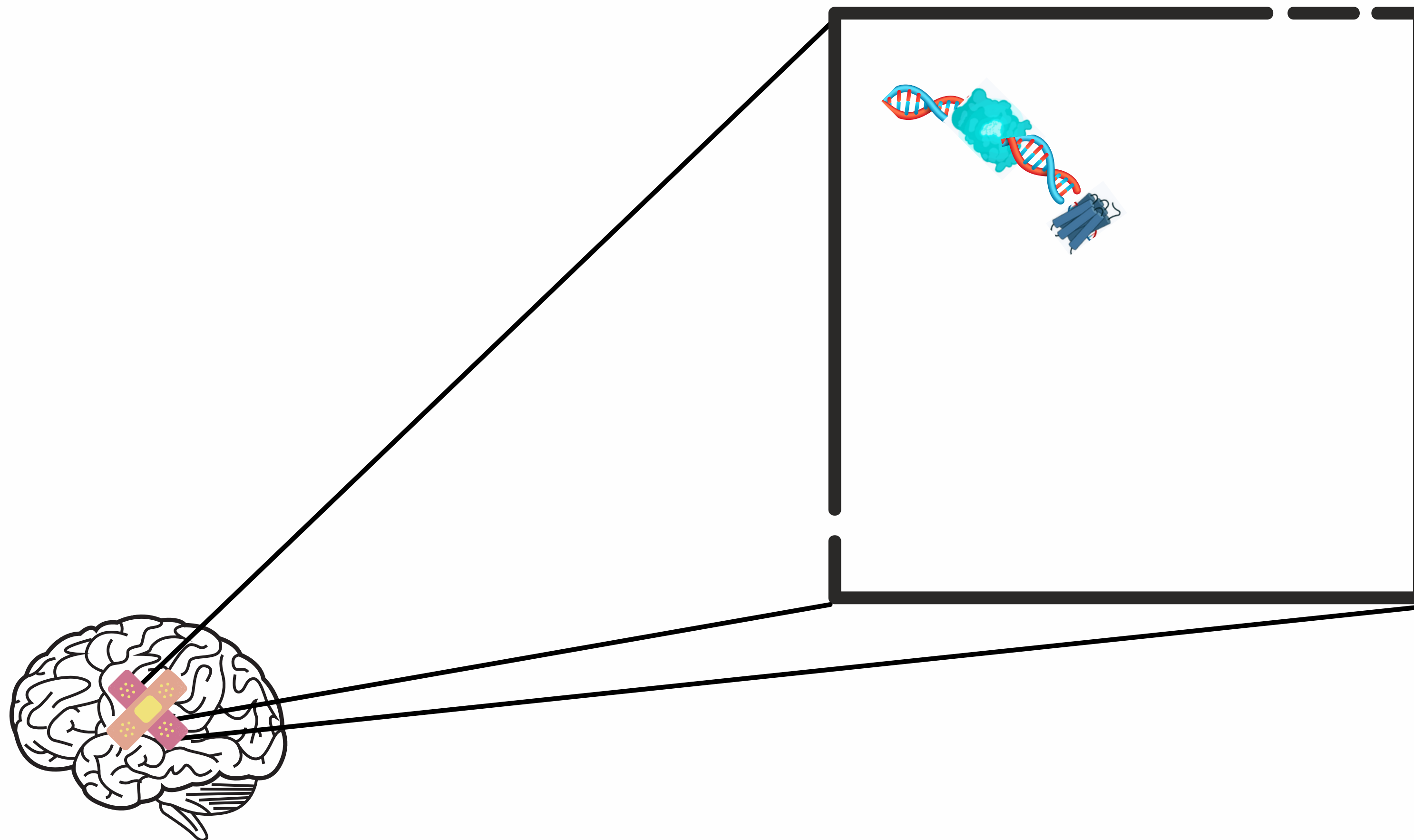
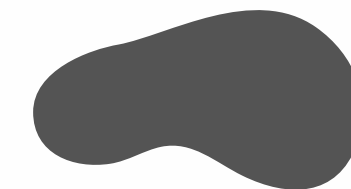


# Causational approach



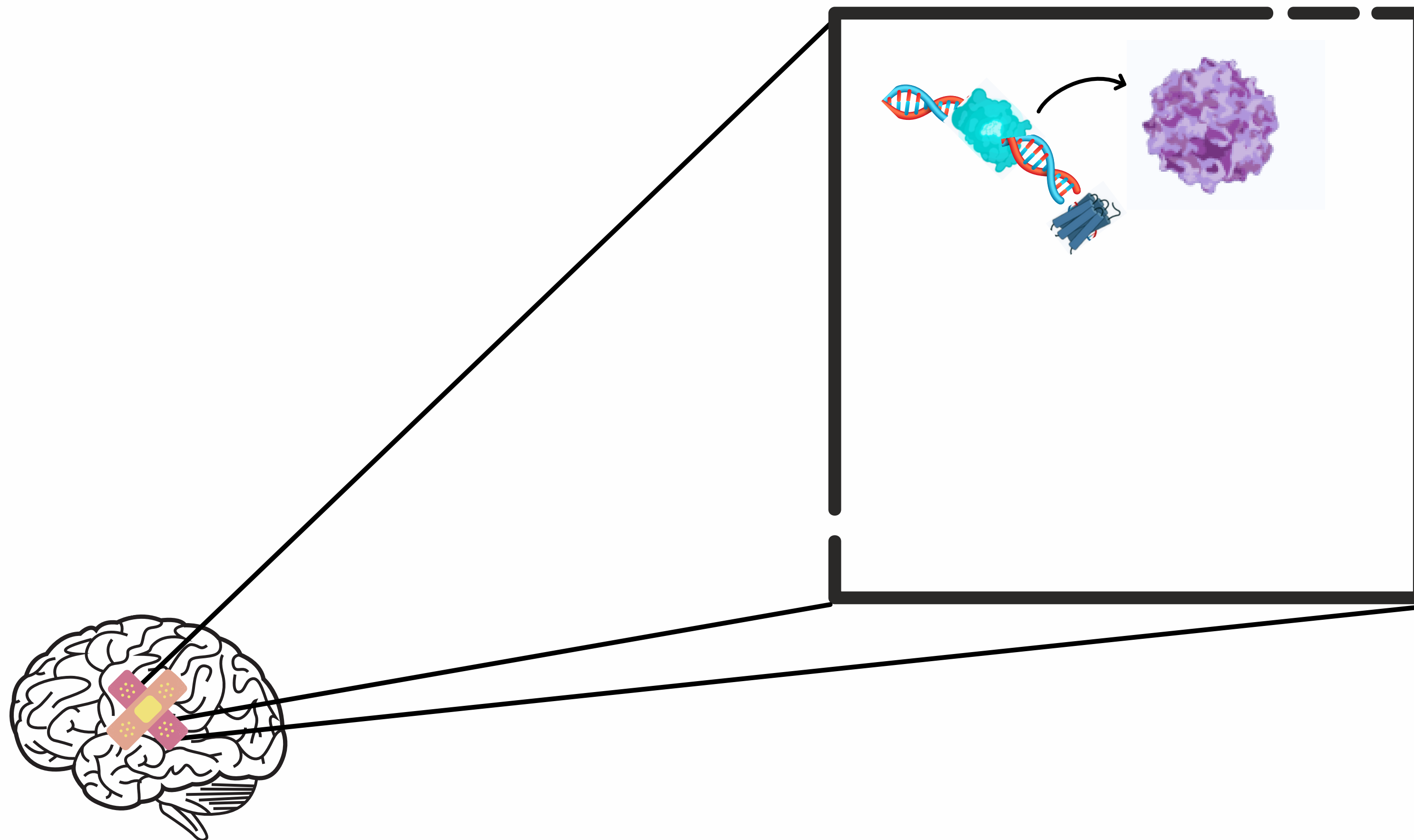
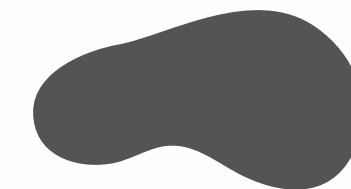


# Causational approach



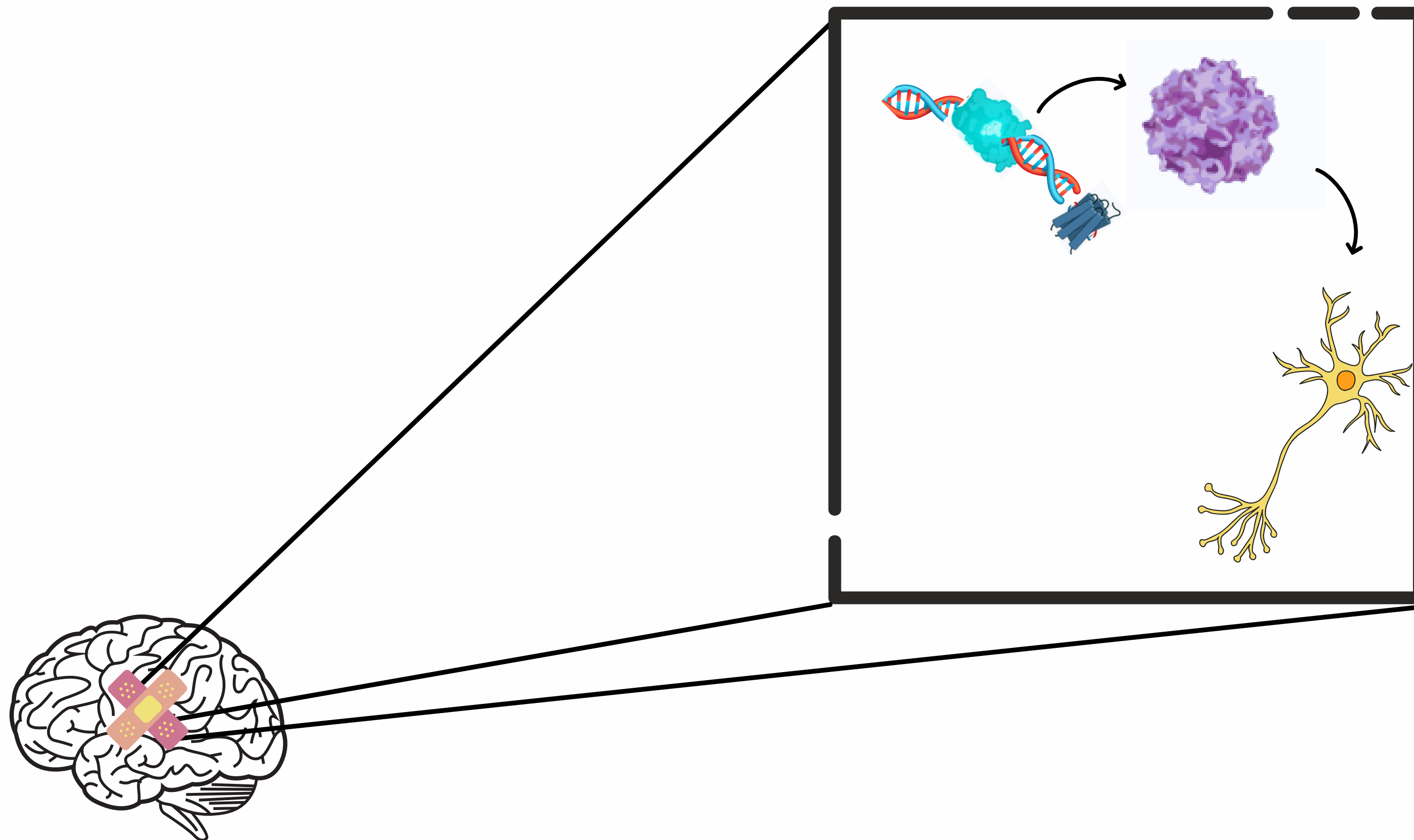
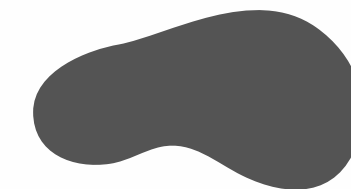


# Causational approach



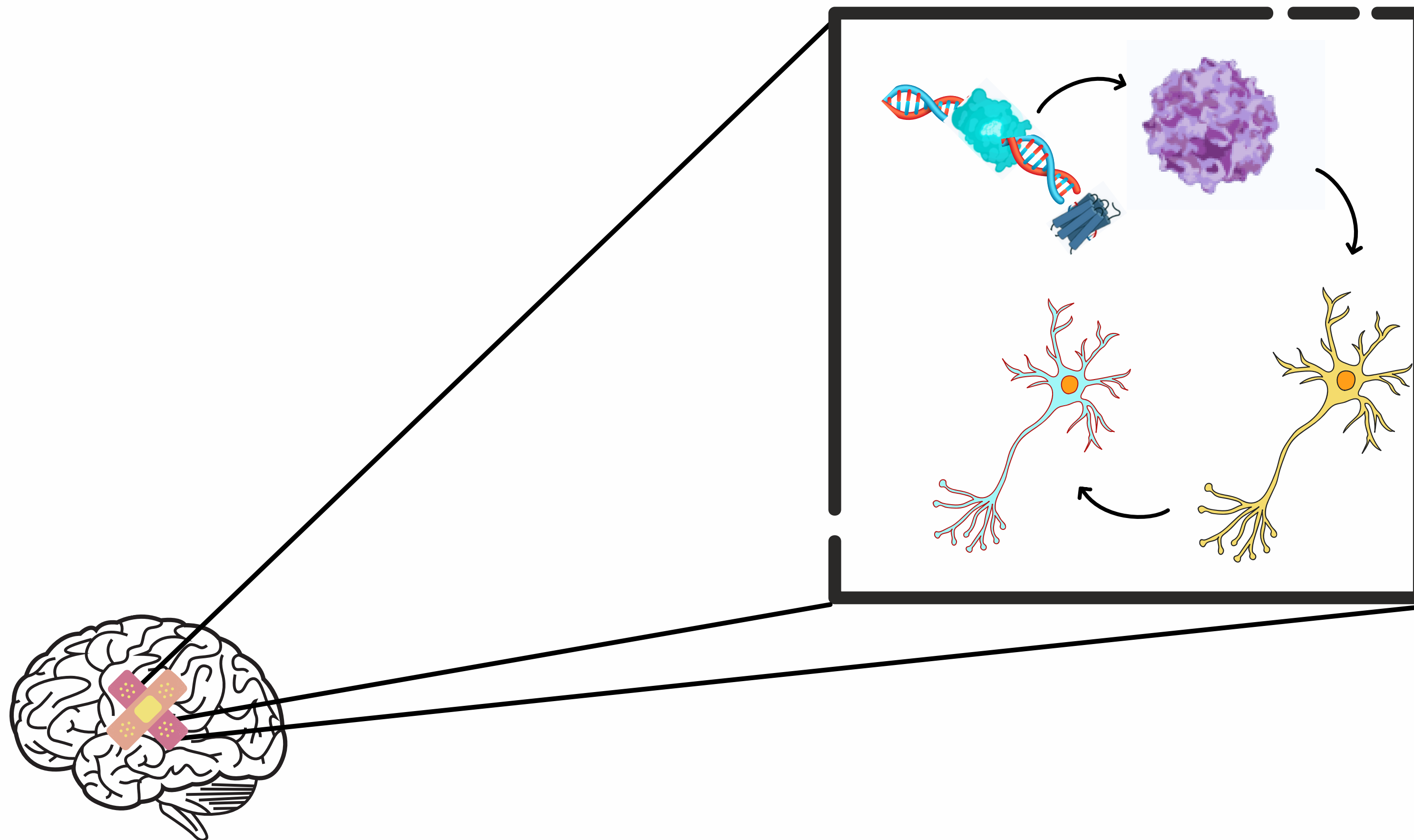
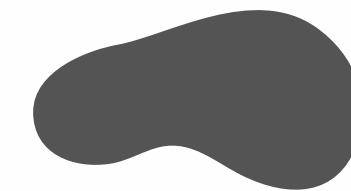


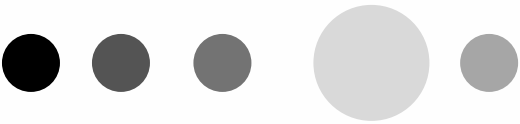
# Causational approach



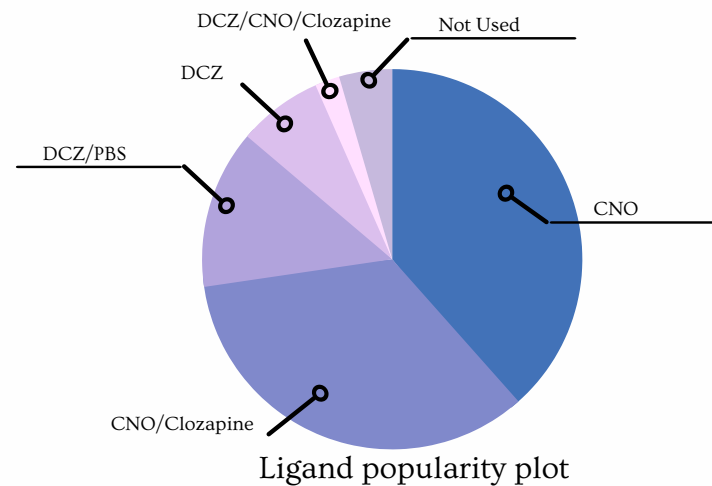
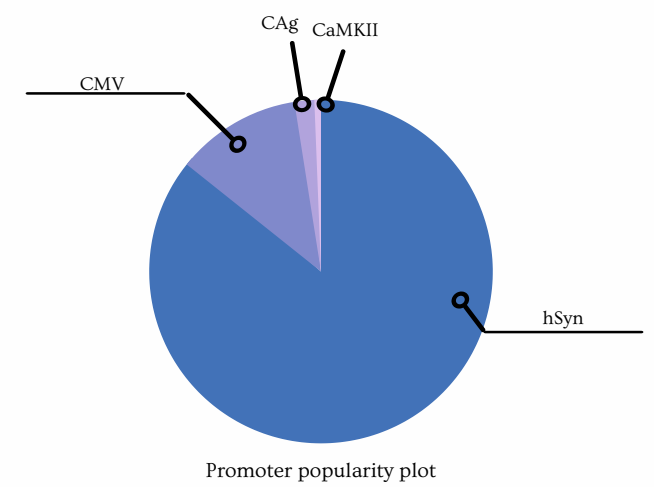
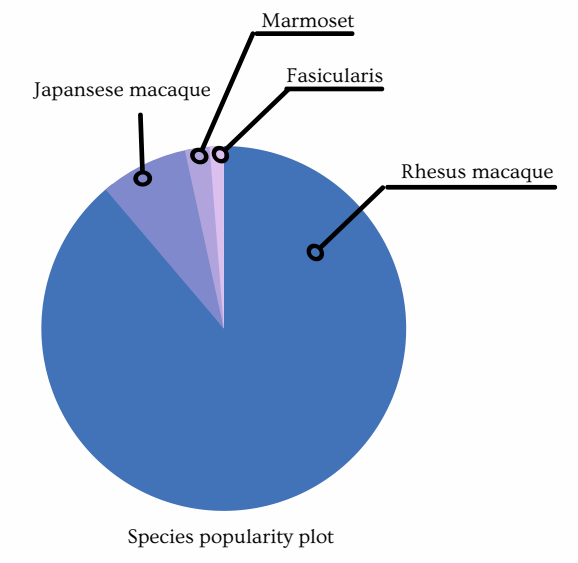
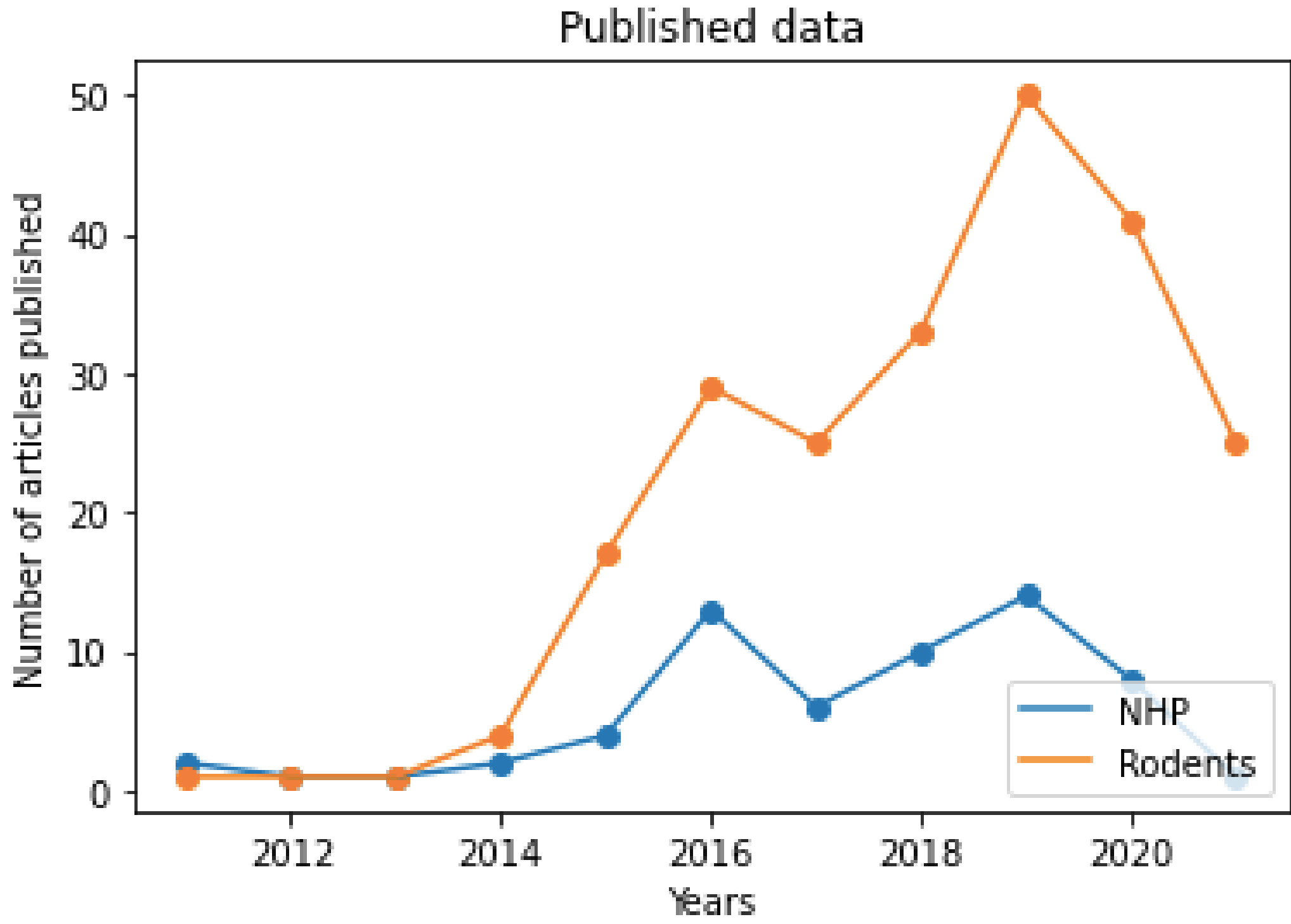
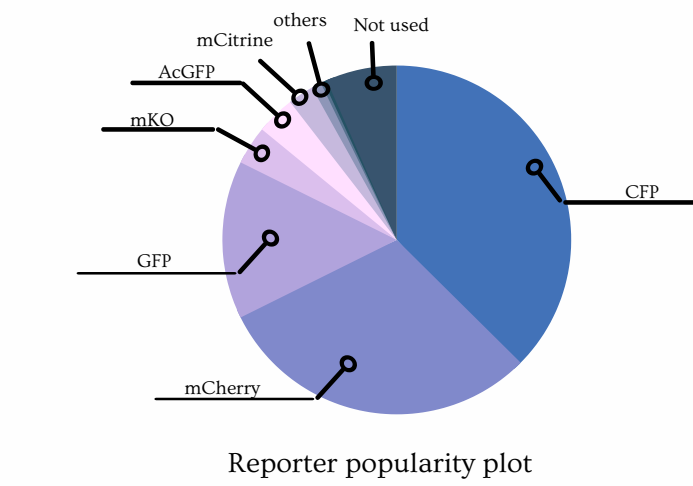
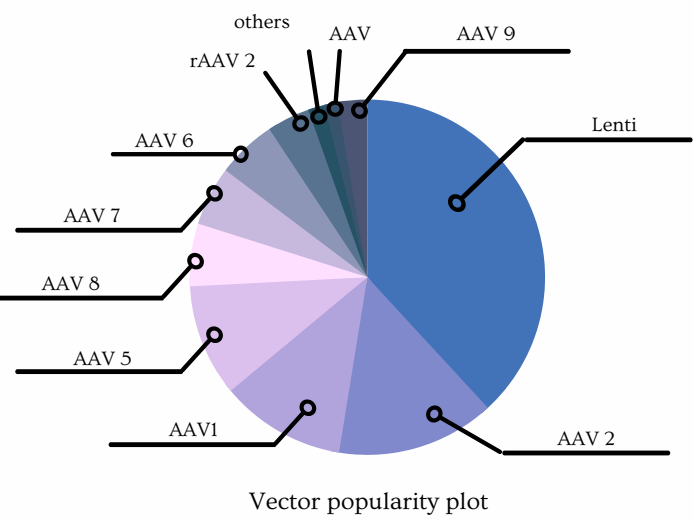
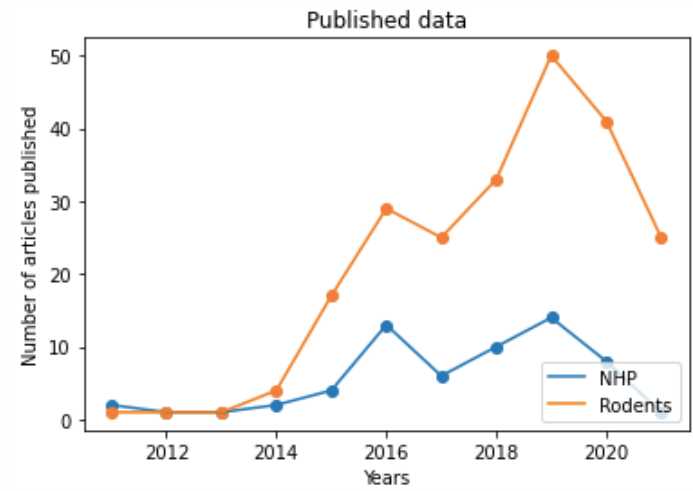
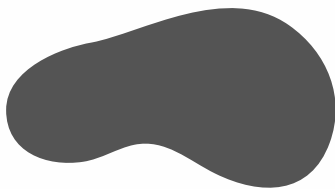


# Causational approach



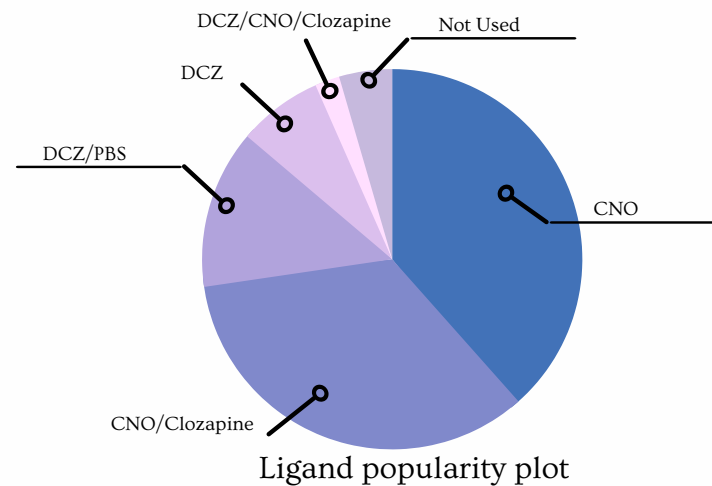
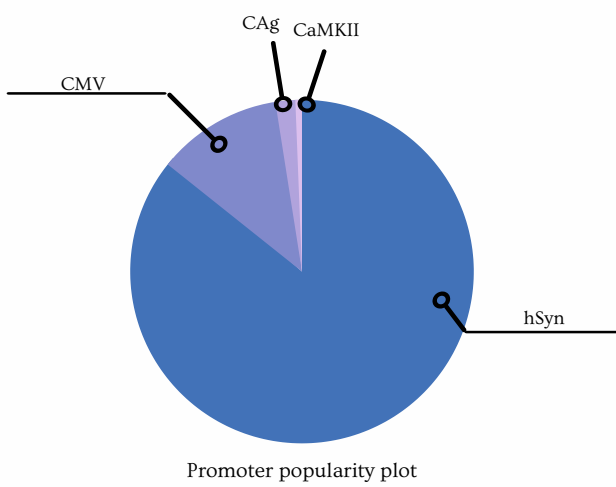
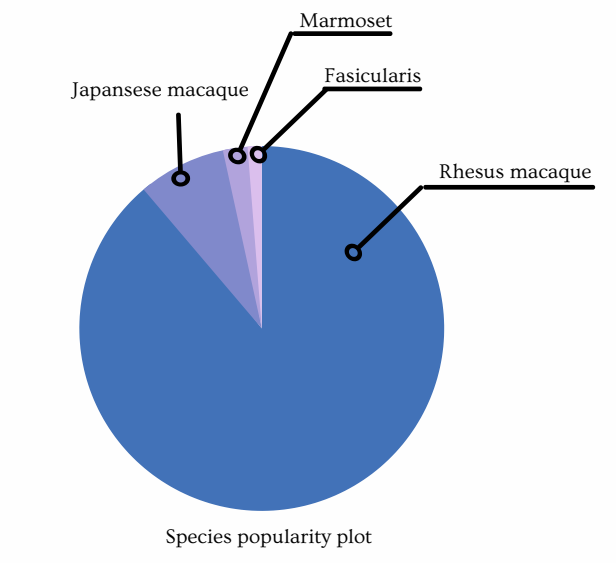
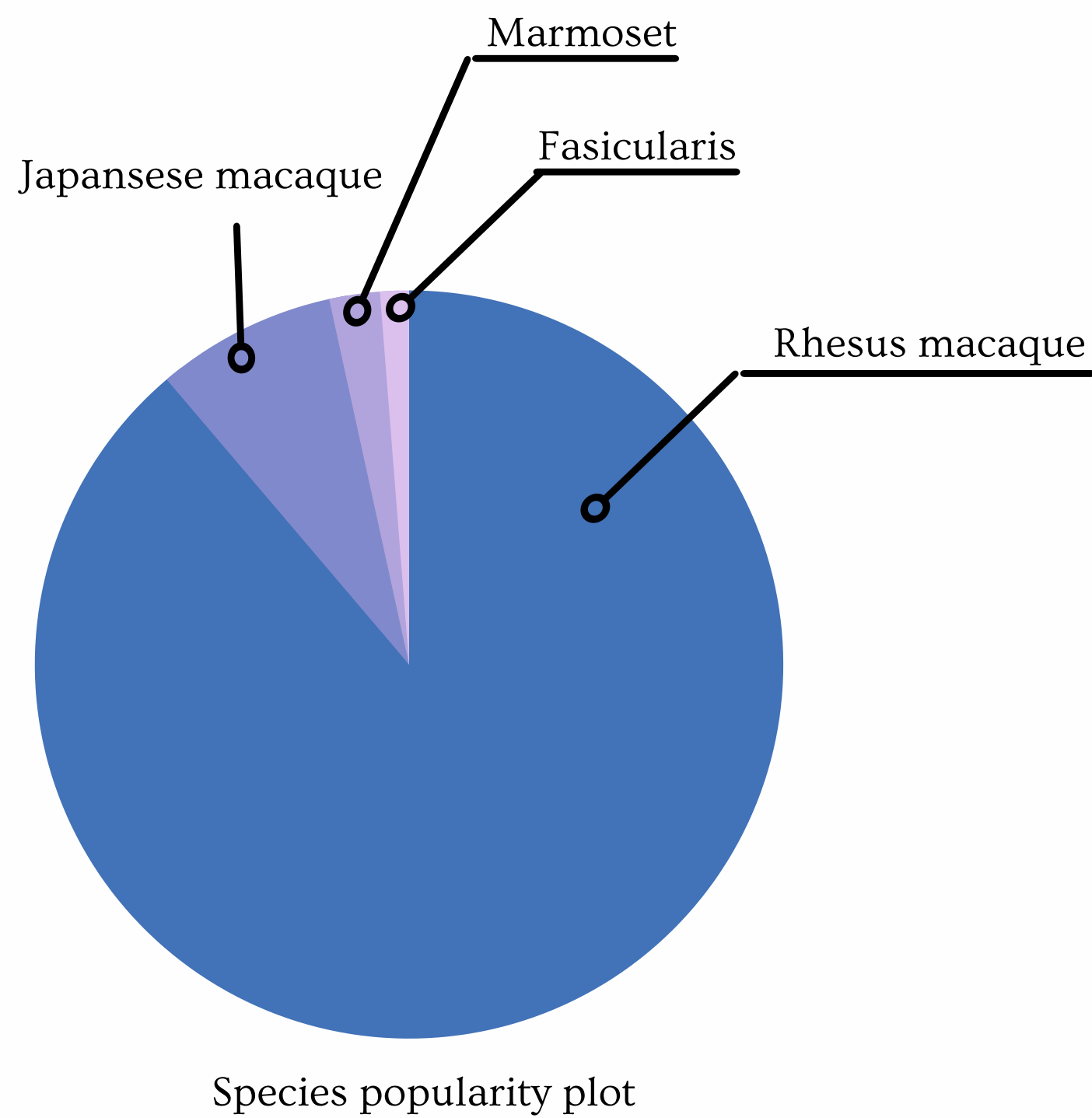
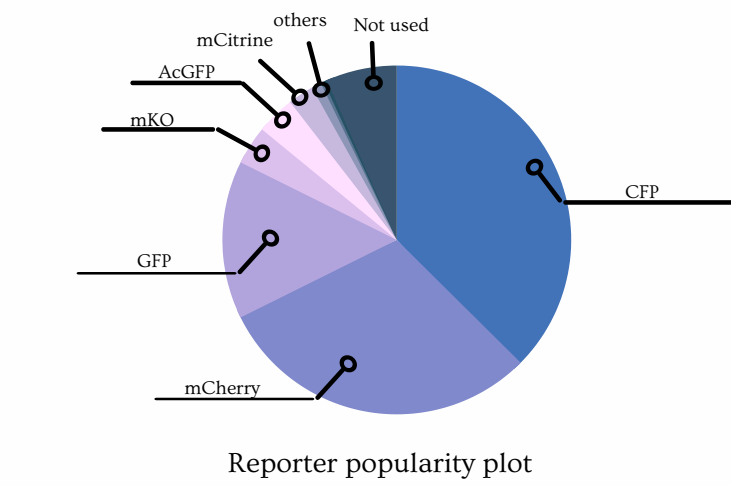
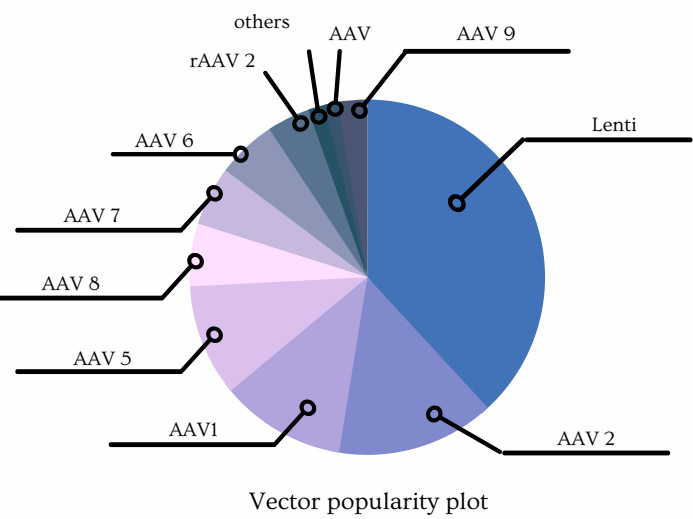
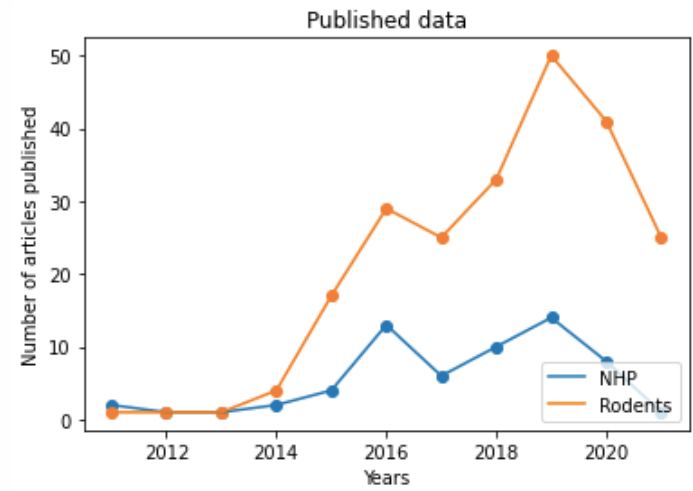
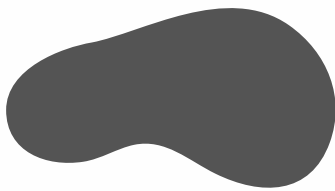


# Results

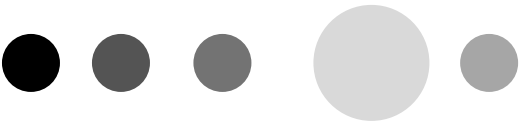




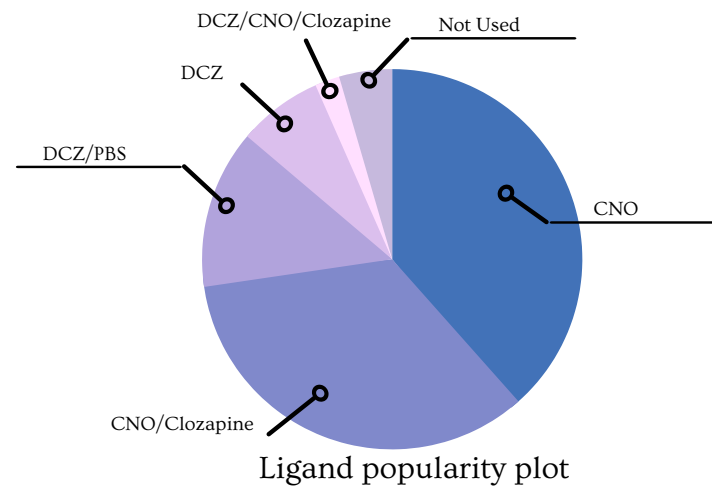
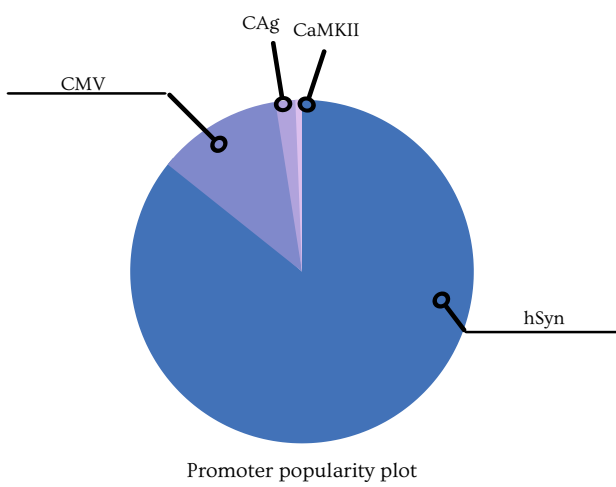
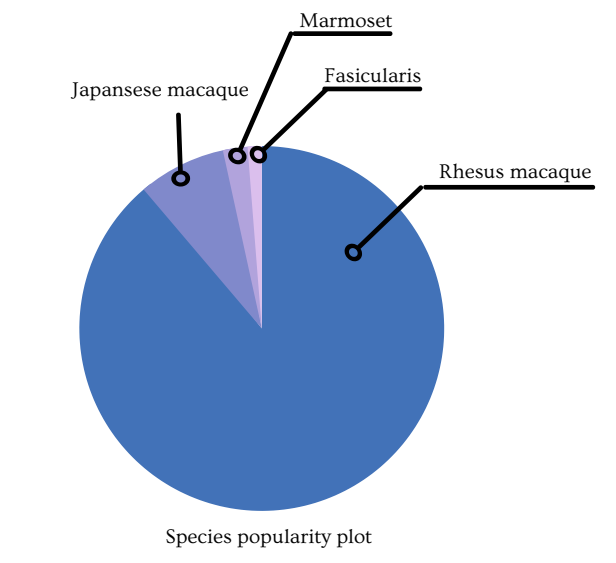
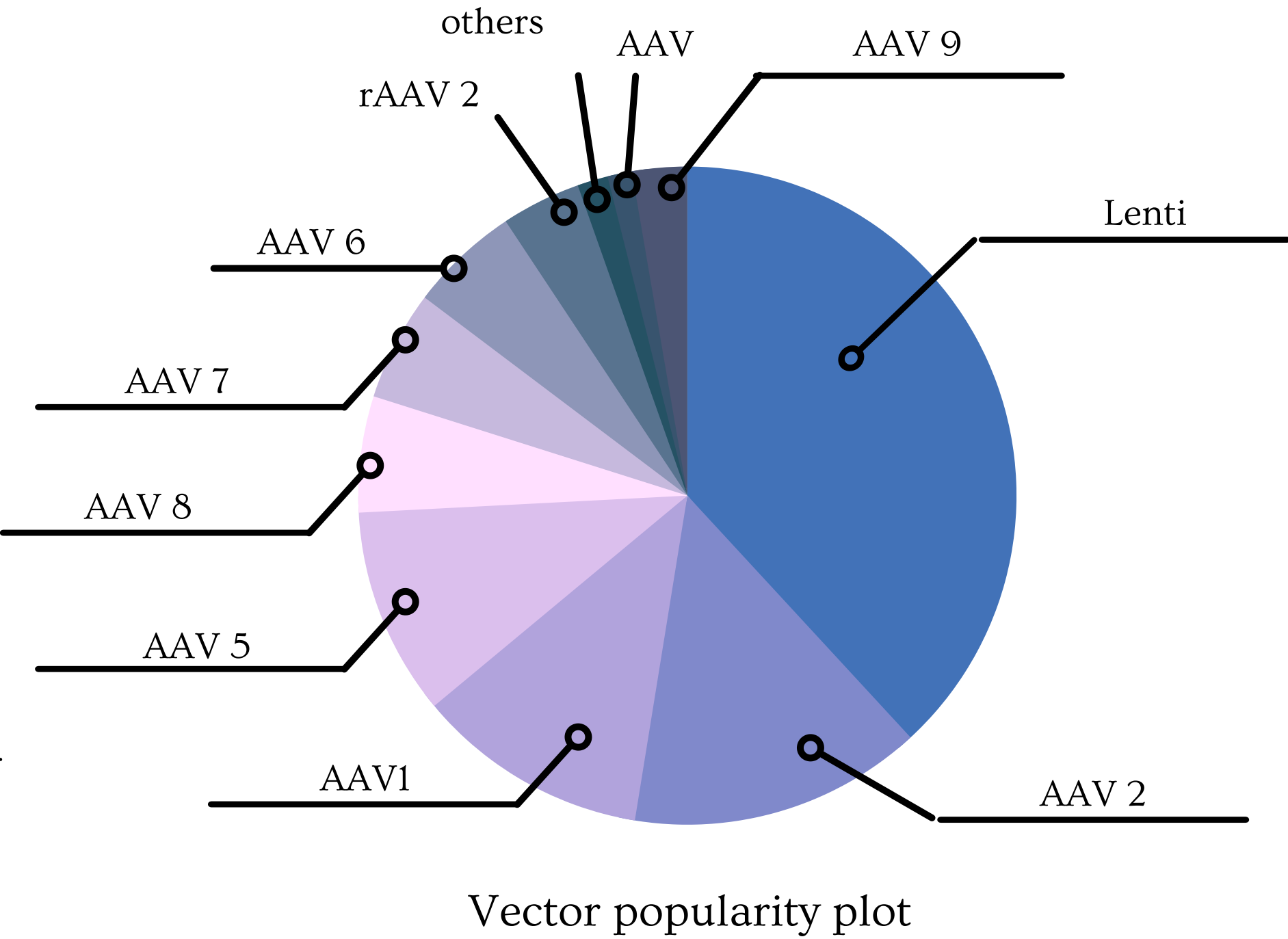
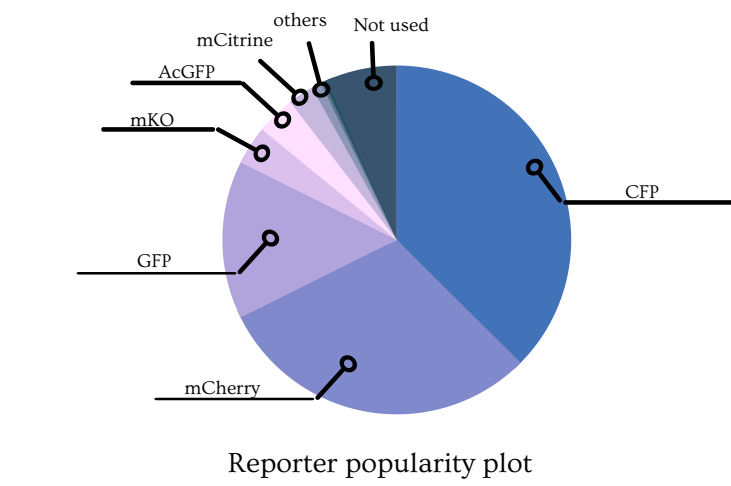
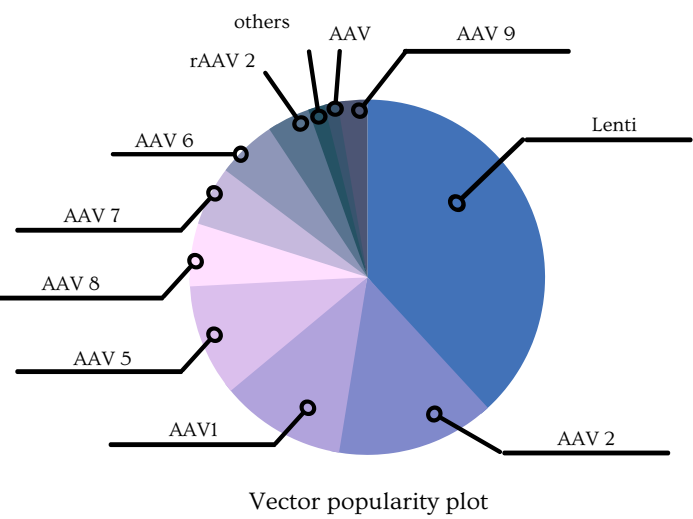
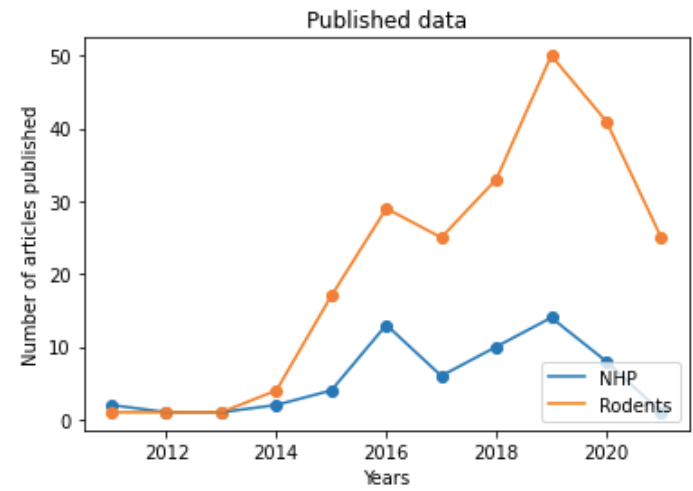
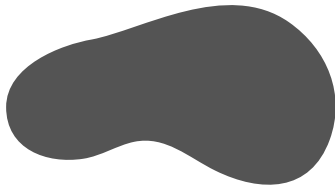
# Results

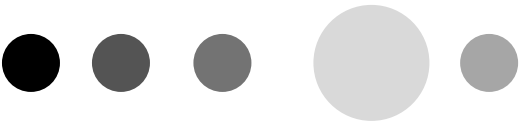




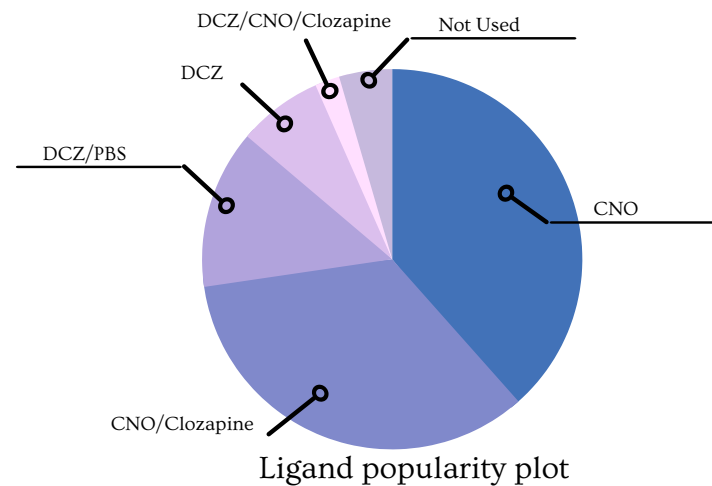
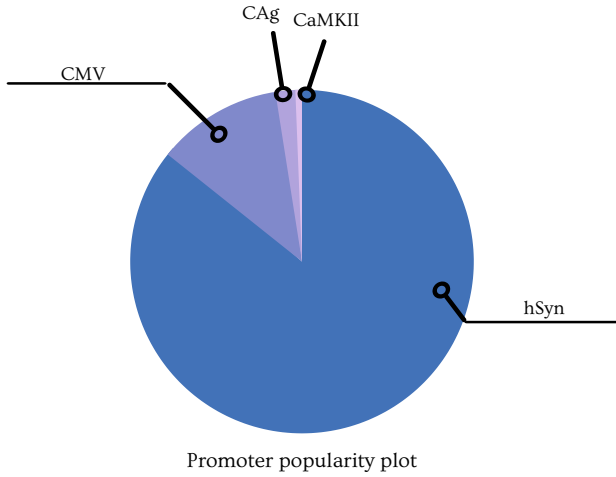
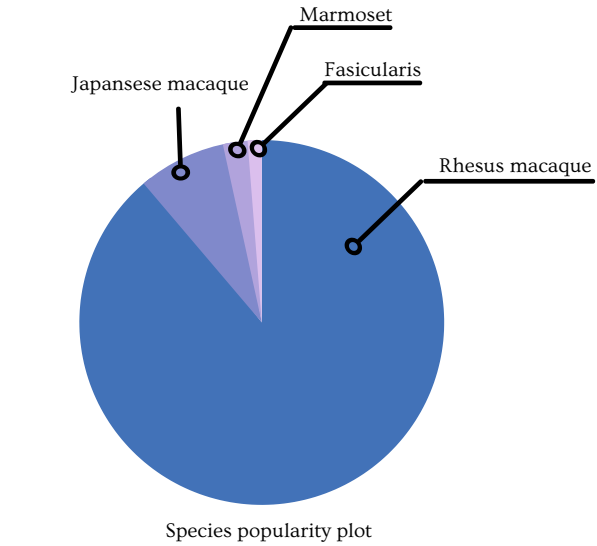
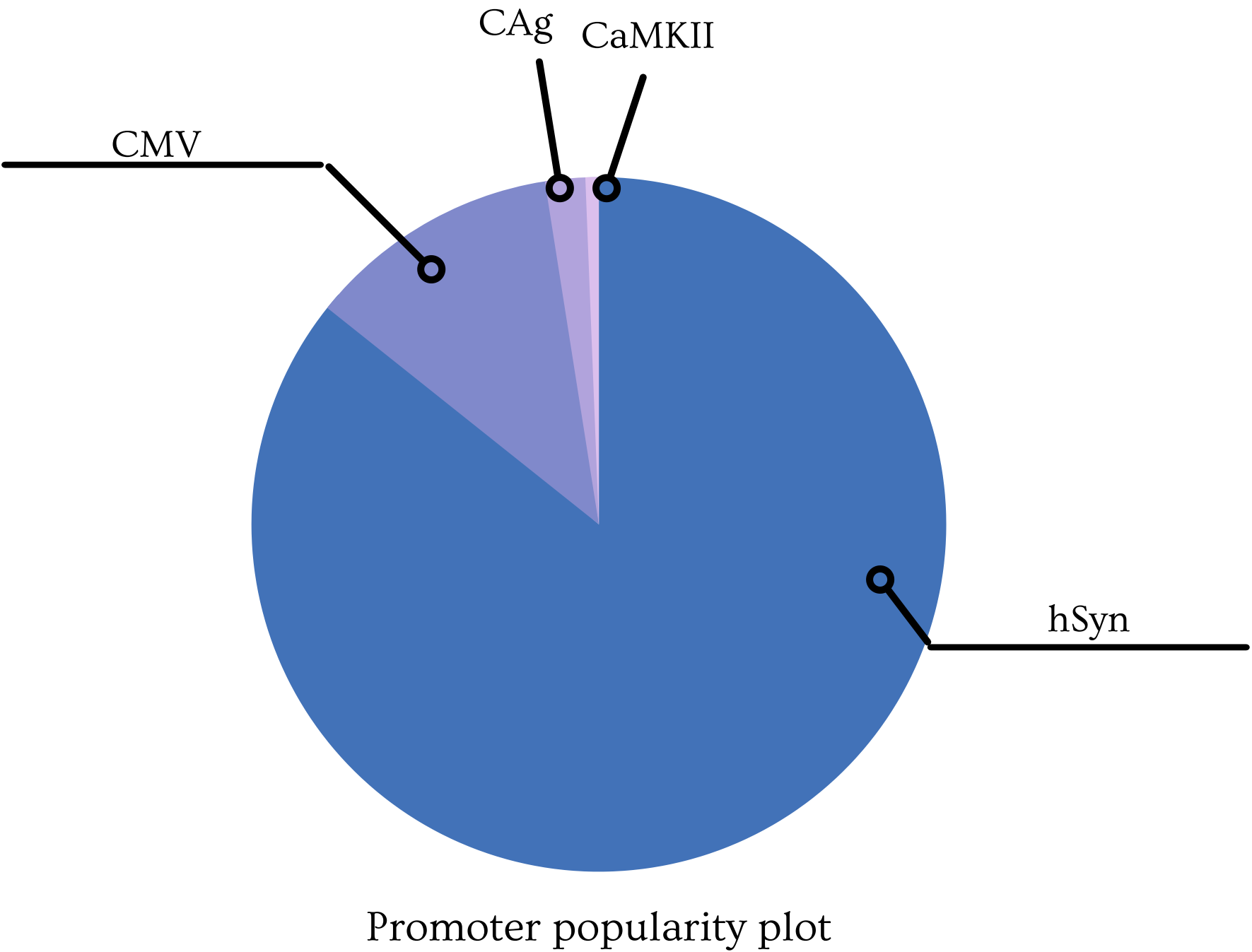
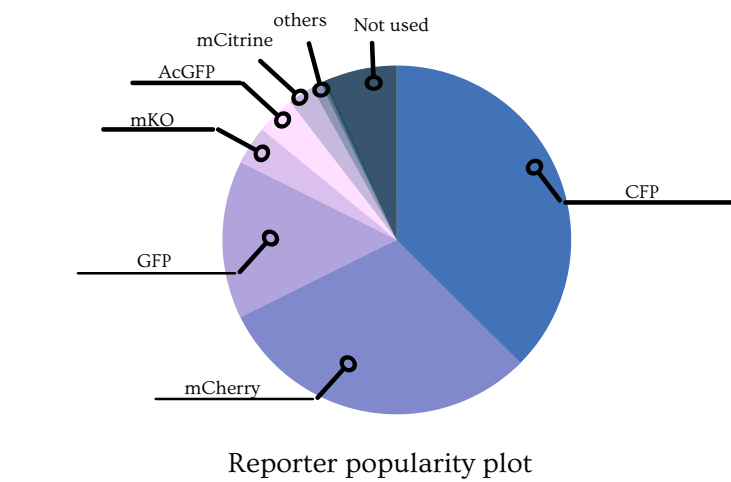
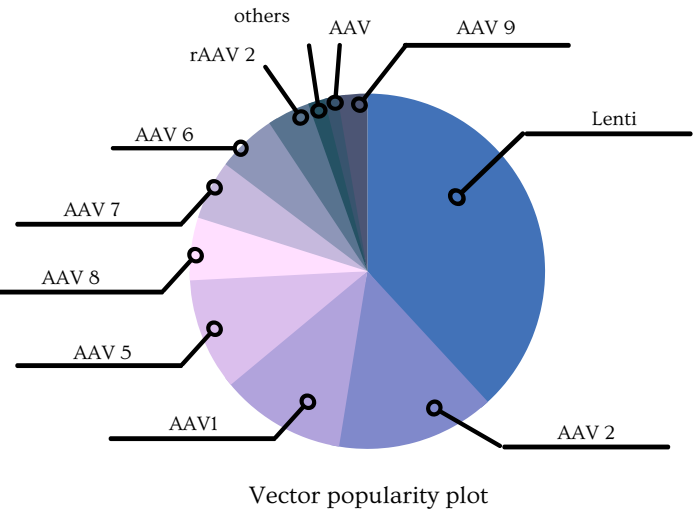
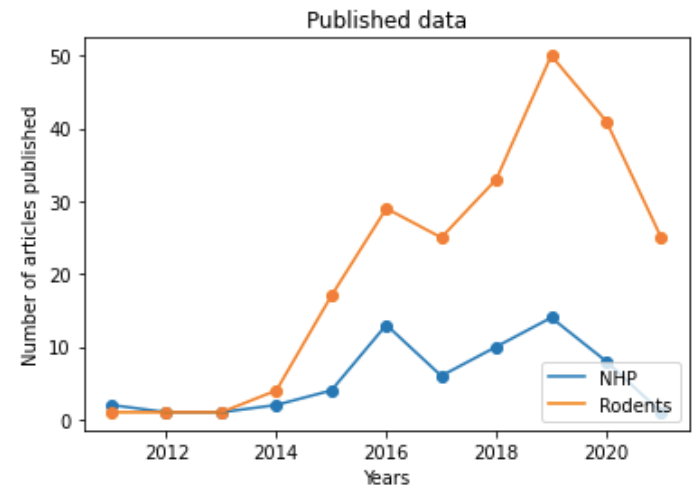
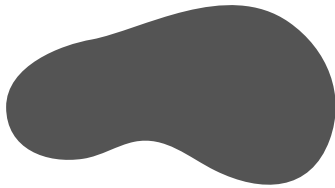


# Results



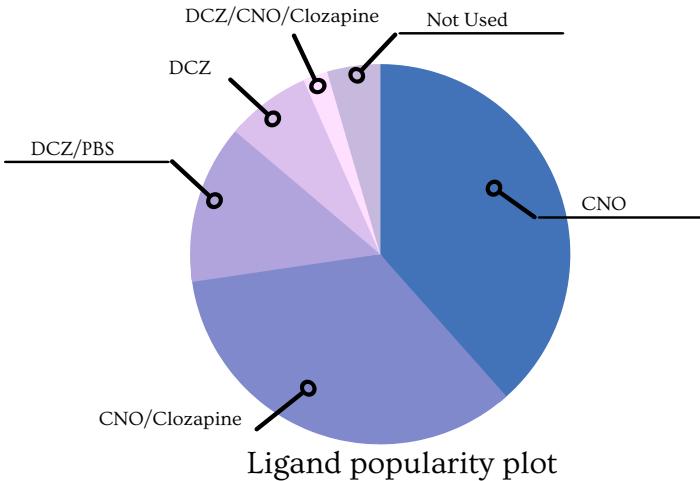
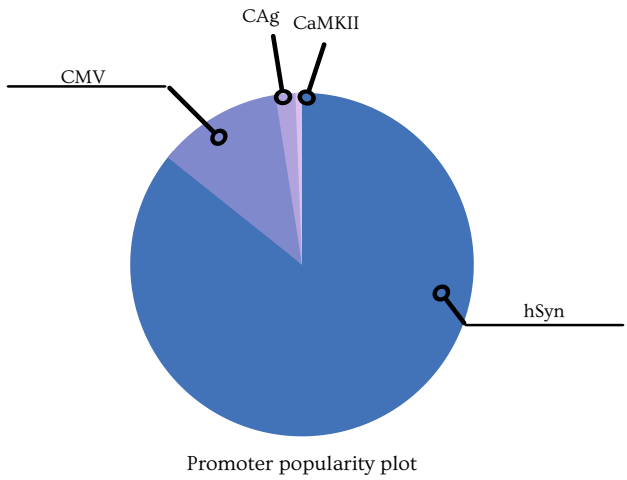
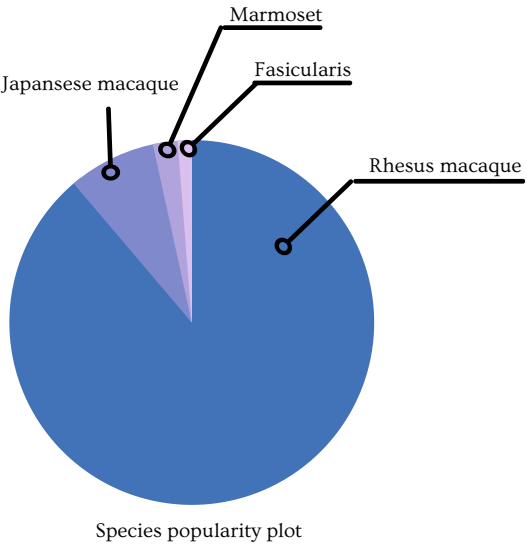
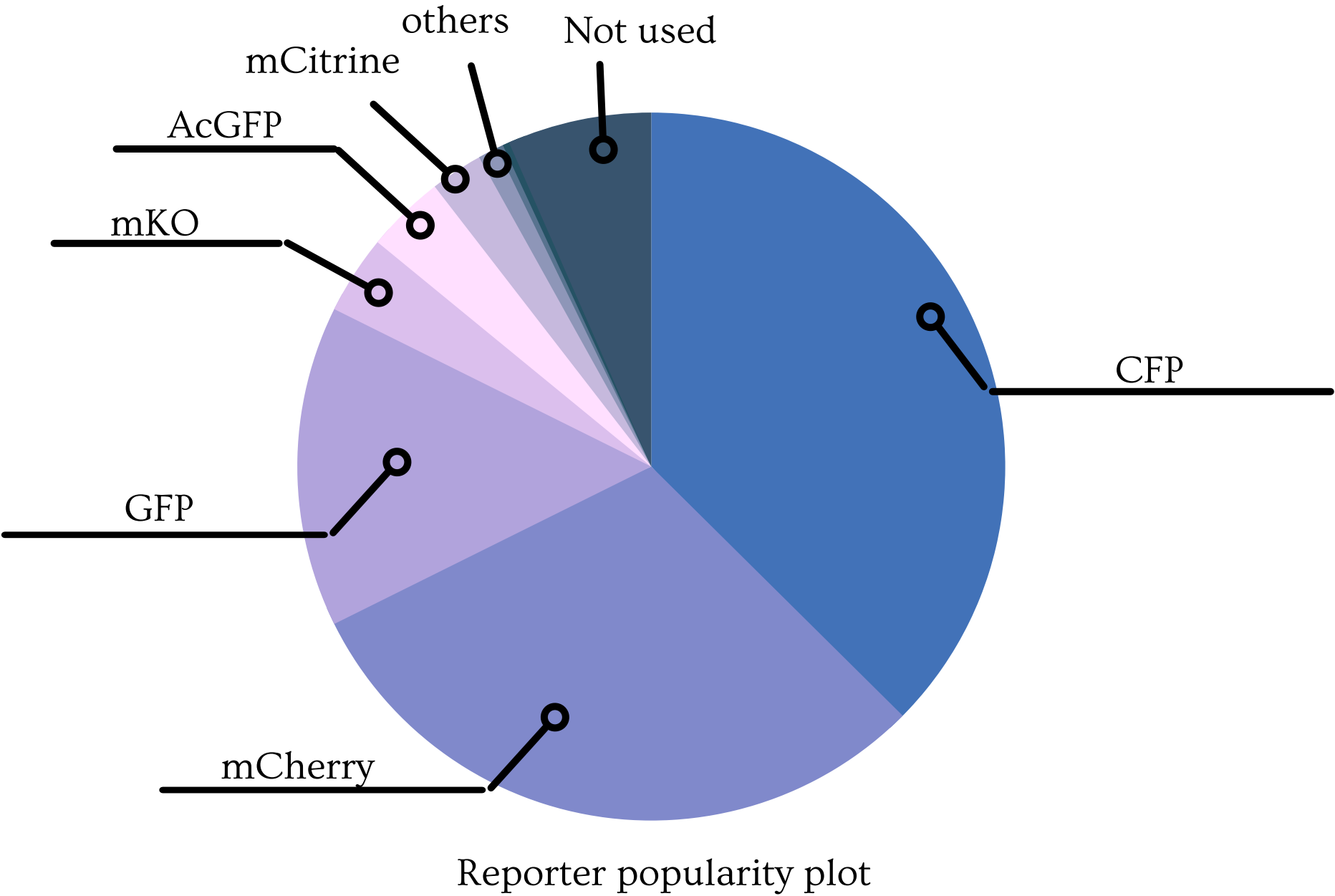
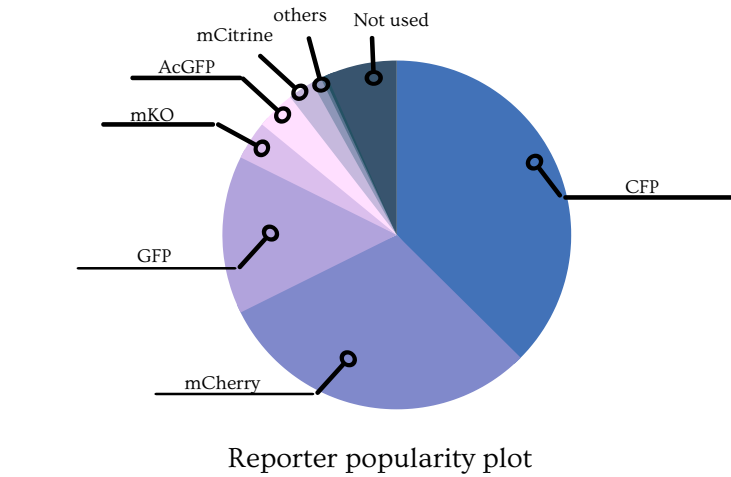
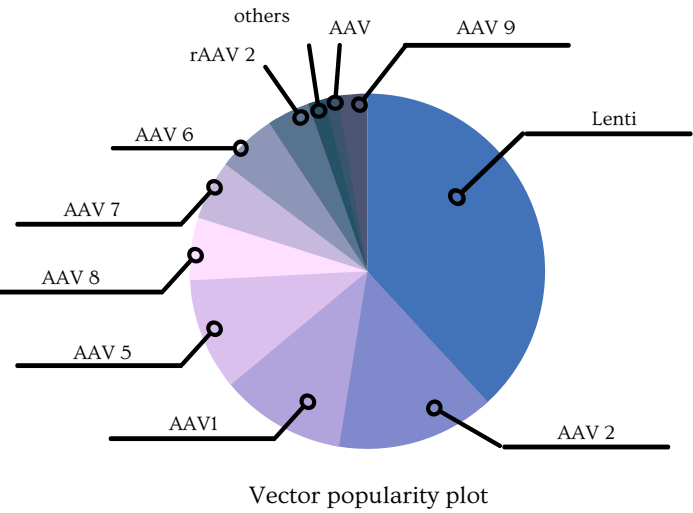
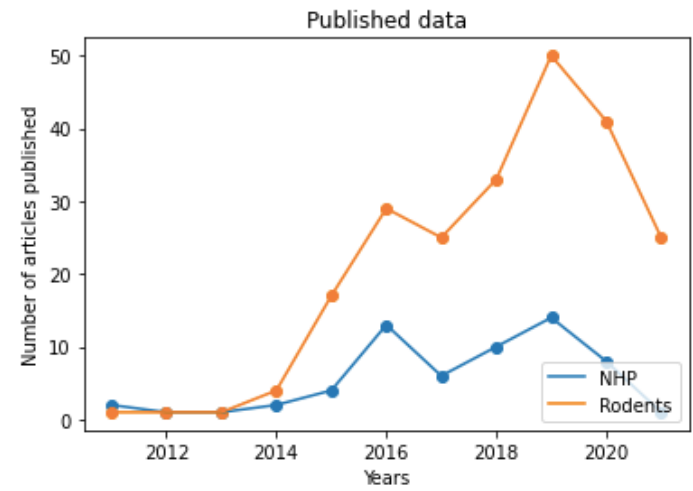
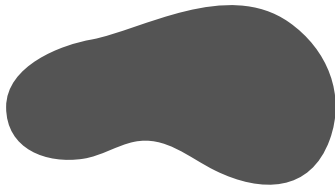


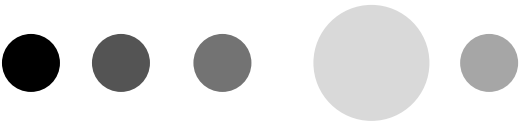
# Results



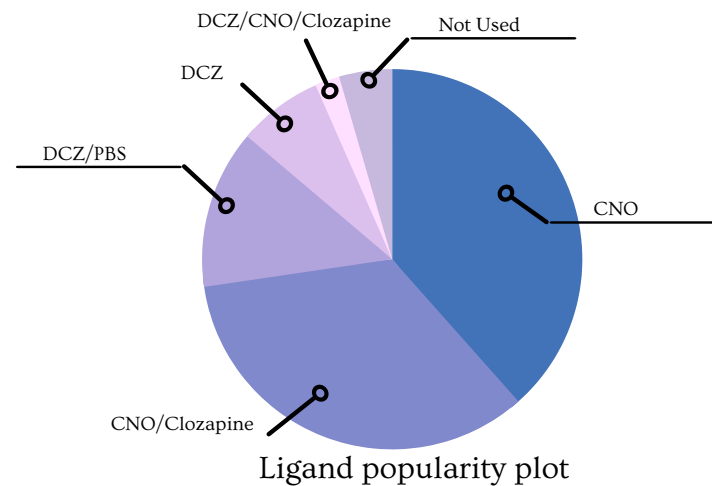
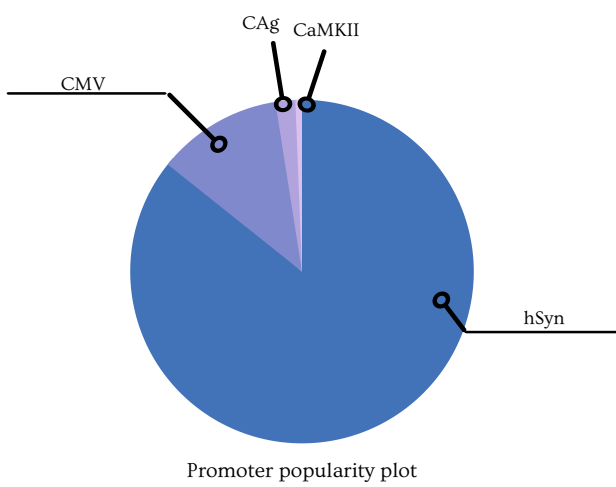
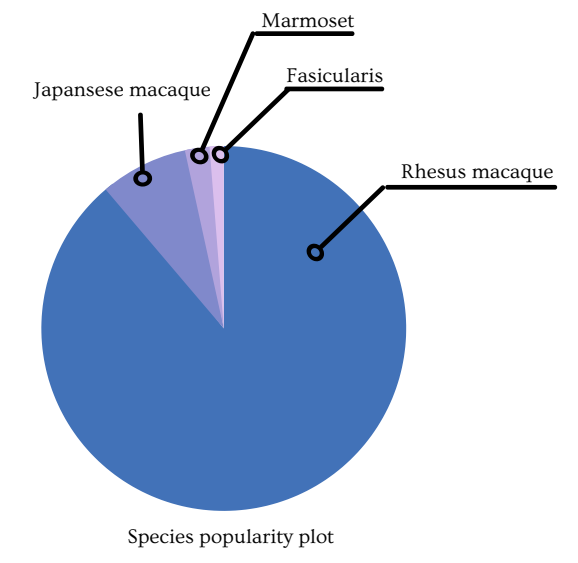
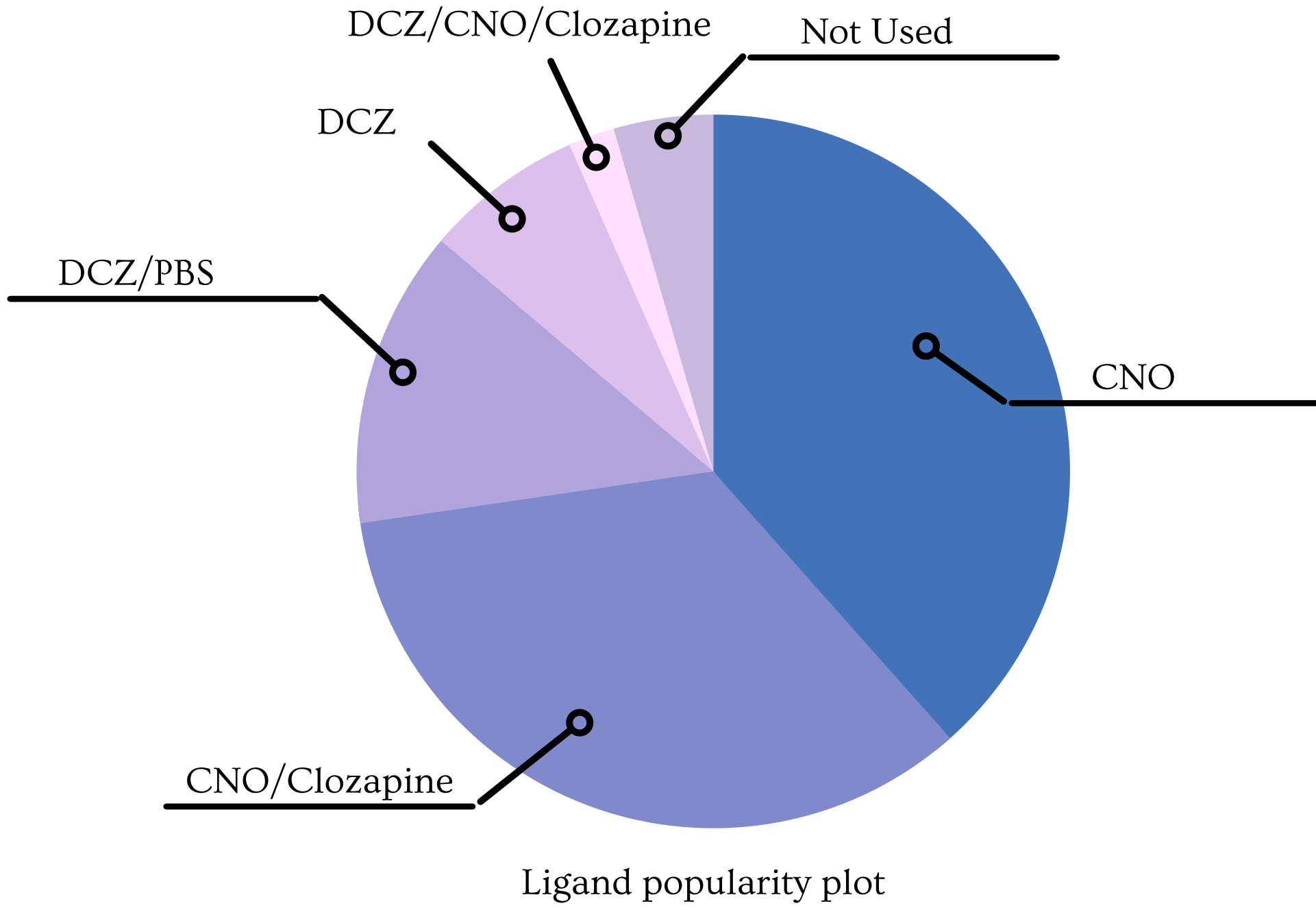
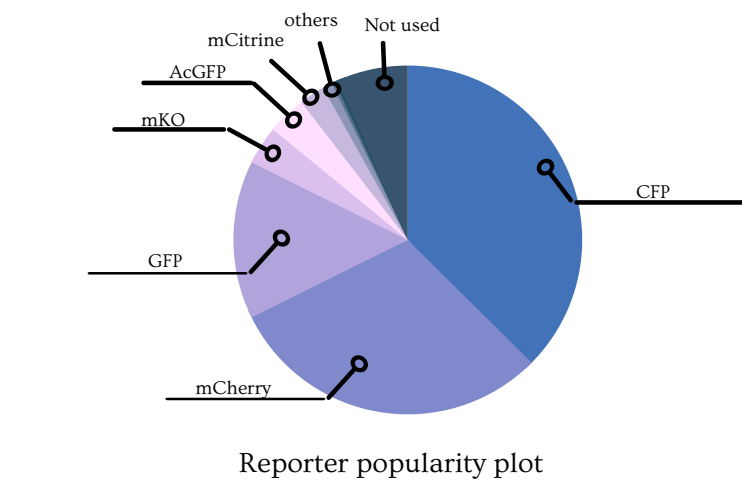
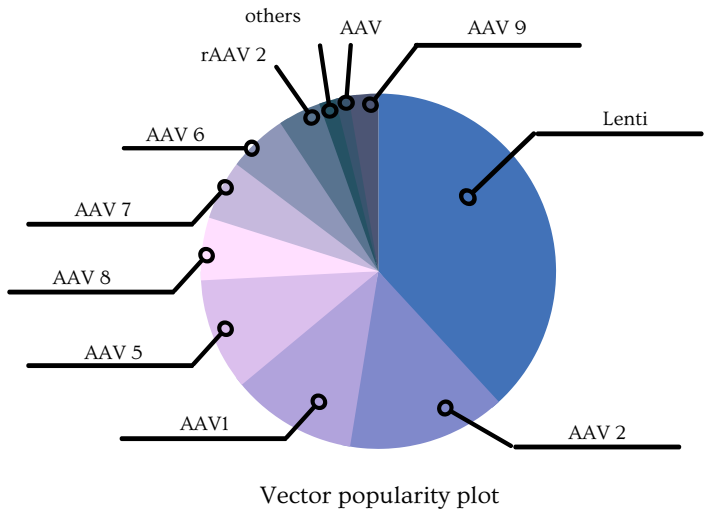
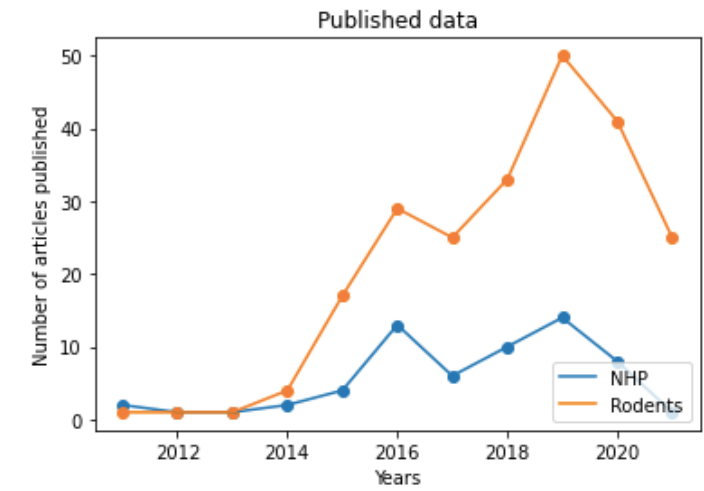
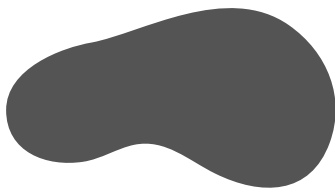


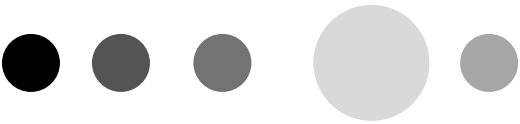
# Results



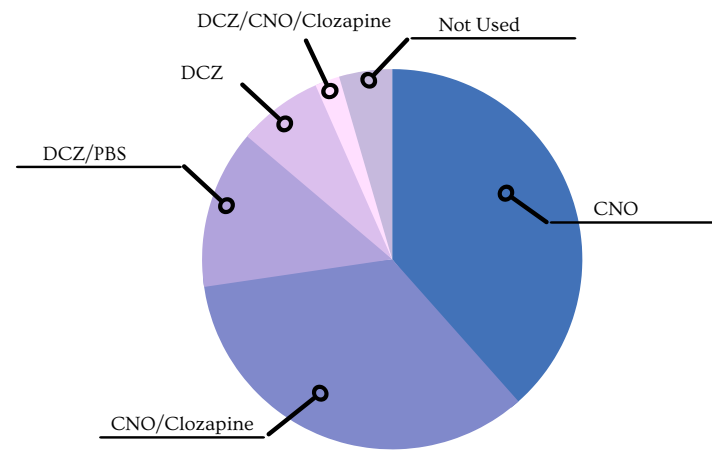
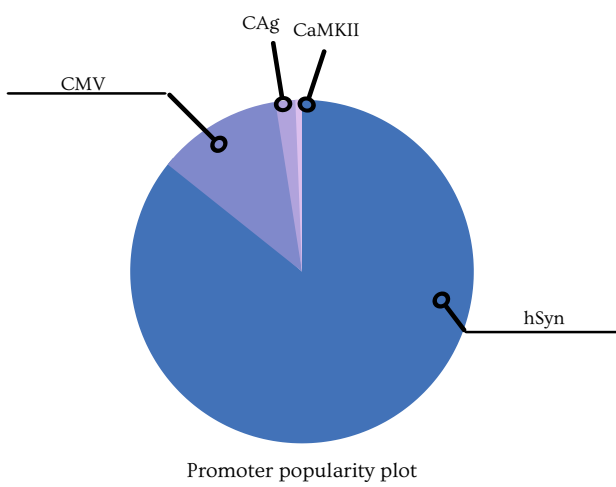
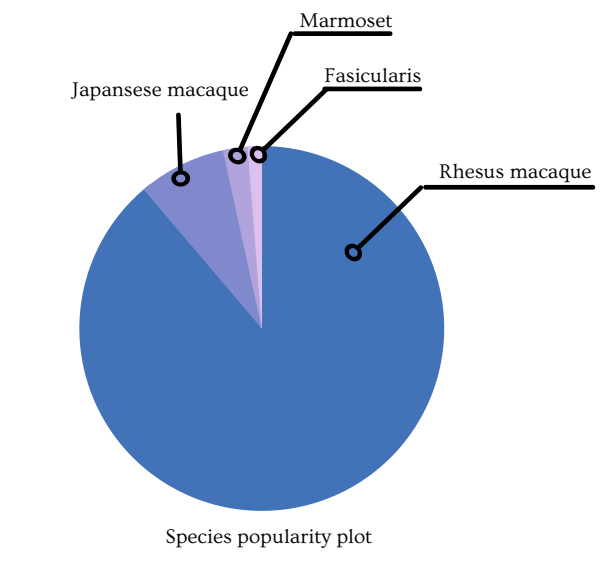
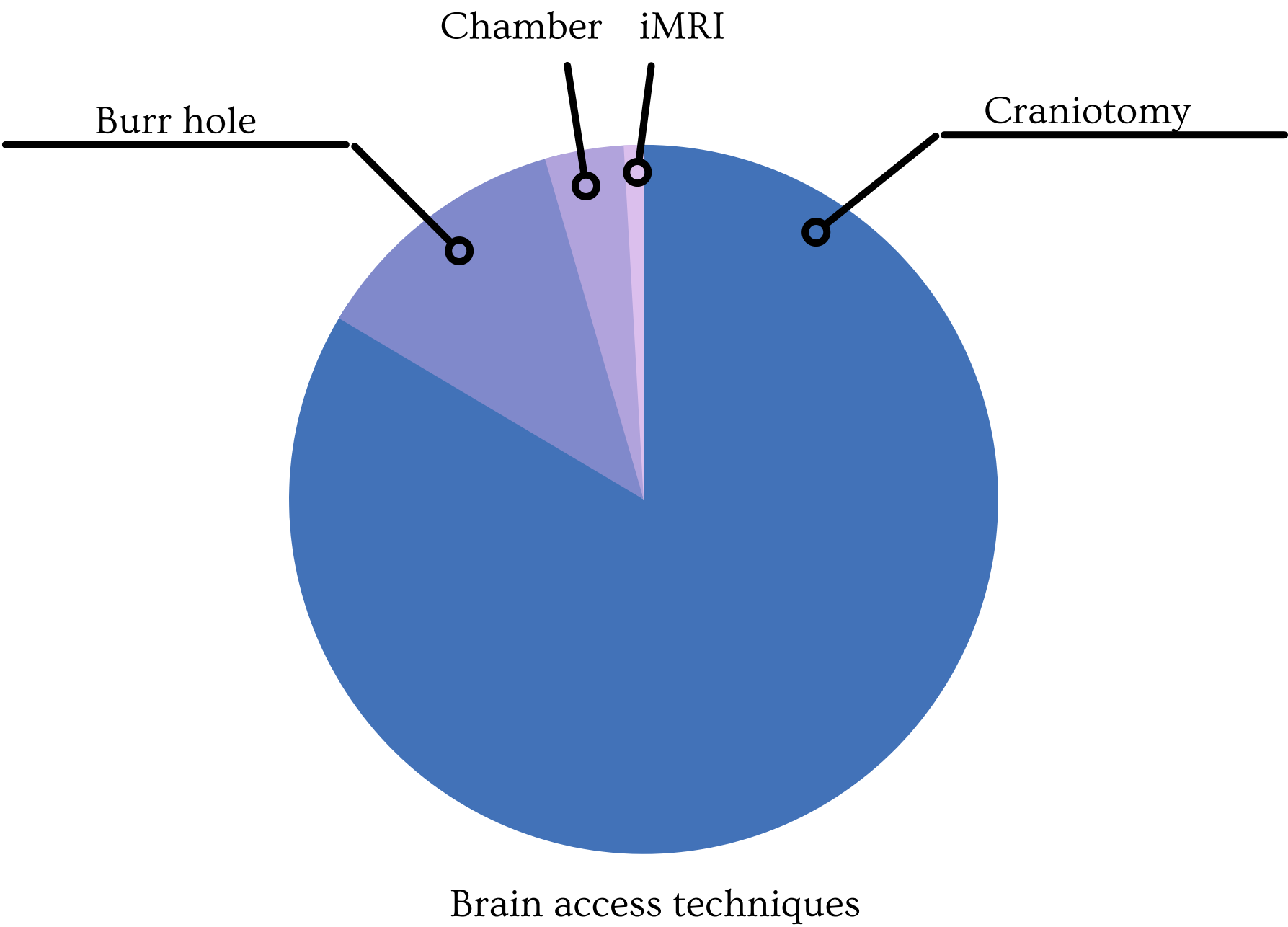
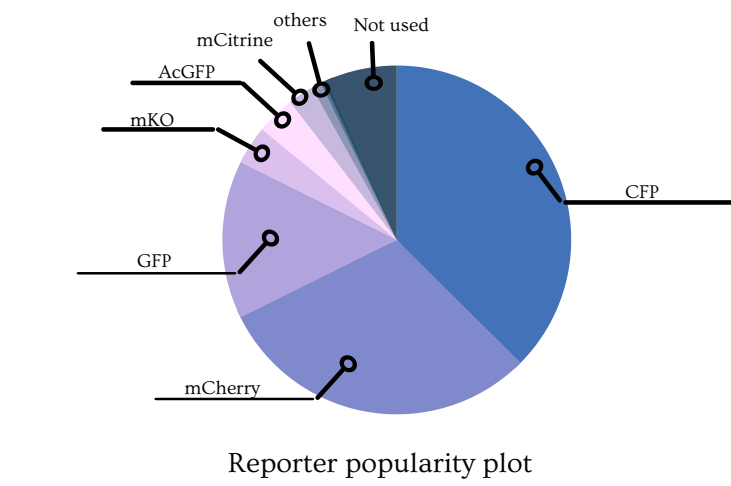
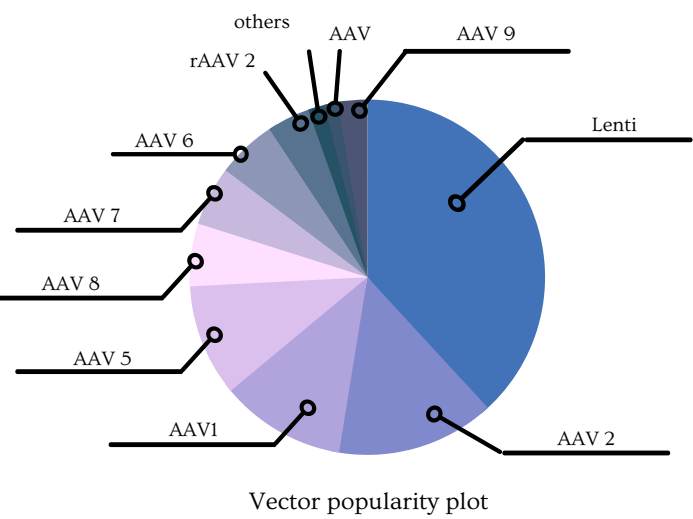
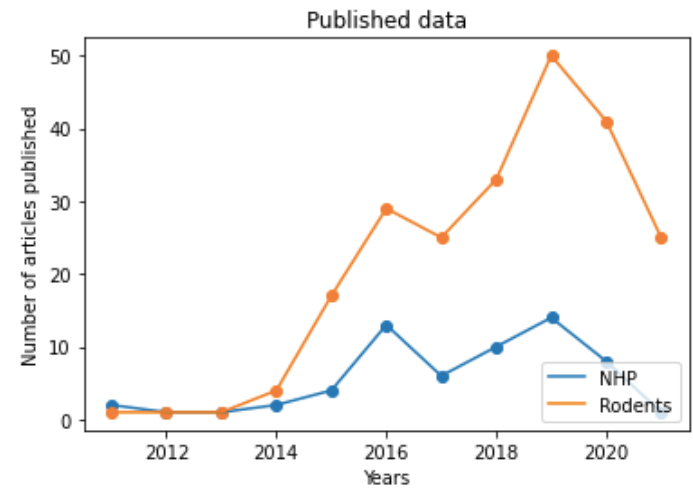
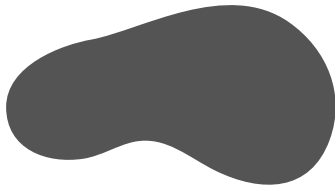


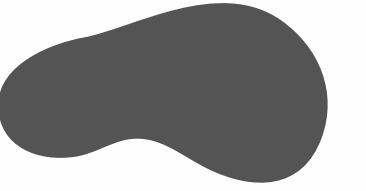
# Results





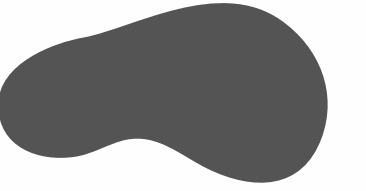
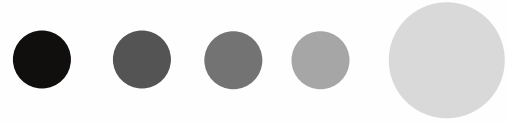
# Results





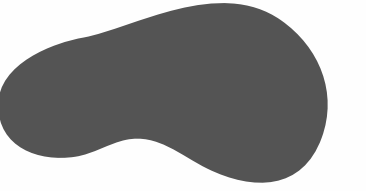
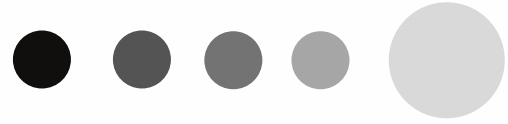
# Summary

- Depression is a real big problem, constituting 1/6 th of the health related problems



# Summary

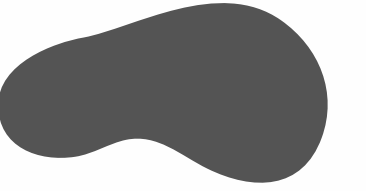
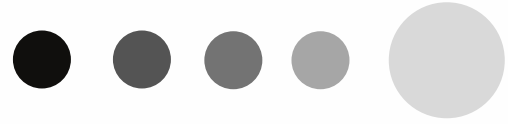
- Depression is a real big problem, constituting 1/6 th of the health related problems
- Current neuroscience needs a quick shift to causational studies for better scientific inferences



# Summary

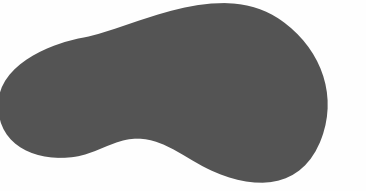
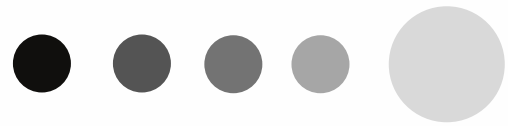
- Depression is a real big problem, constituting 1/6 th of the health related problems
- Current neuroscience needs a quick shift to causational studies for better scientific inferences
- Chemogenetic manipulations is a booming technique to undersatnd the functioning of the brain in awake animals





# Summary

- Depression is a real big problem, constituting 1/6 th of the health related problems
- Current neuroscience needs a quick shift to causational studies for better scientific inferences
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- To assist future experiments we have come up with an open resource consisting of all DREADD related experiments.
- As the next step, we intend to invite labs working on DREADDs to contribute in our database and help the scientific community to improve.