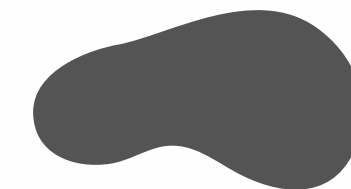


Feasibility of DREADDs in NHP

Leafy Behera
SURGE Roll no: 2142500

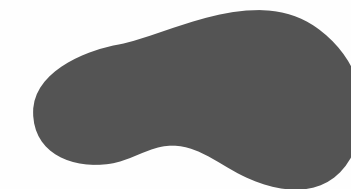


Current senario





Current senario

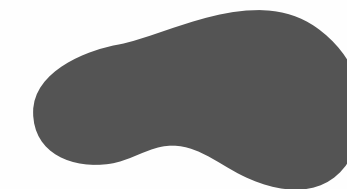


20%





Current senario



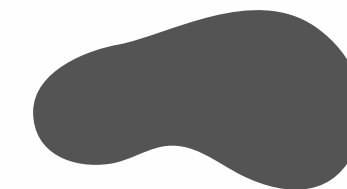
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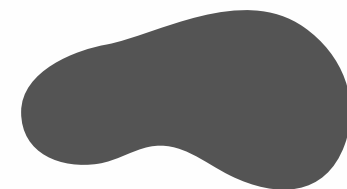


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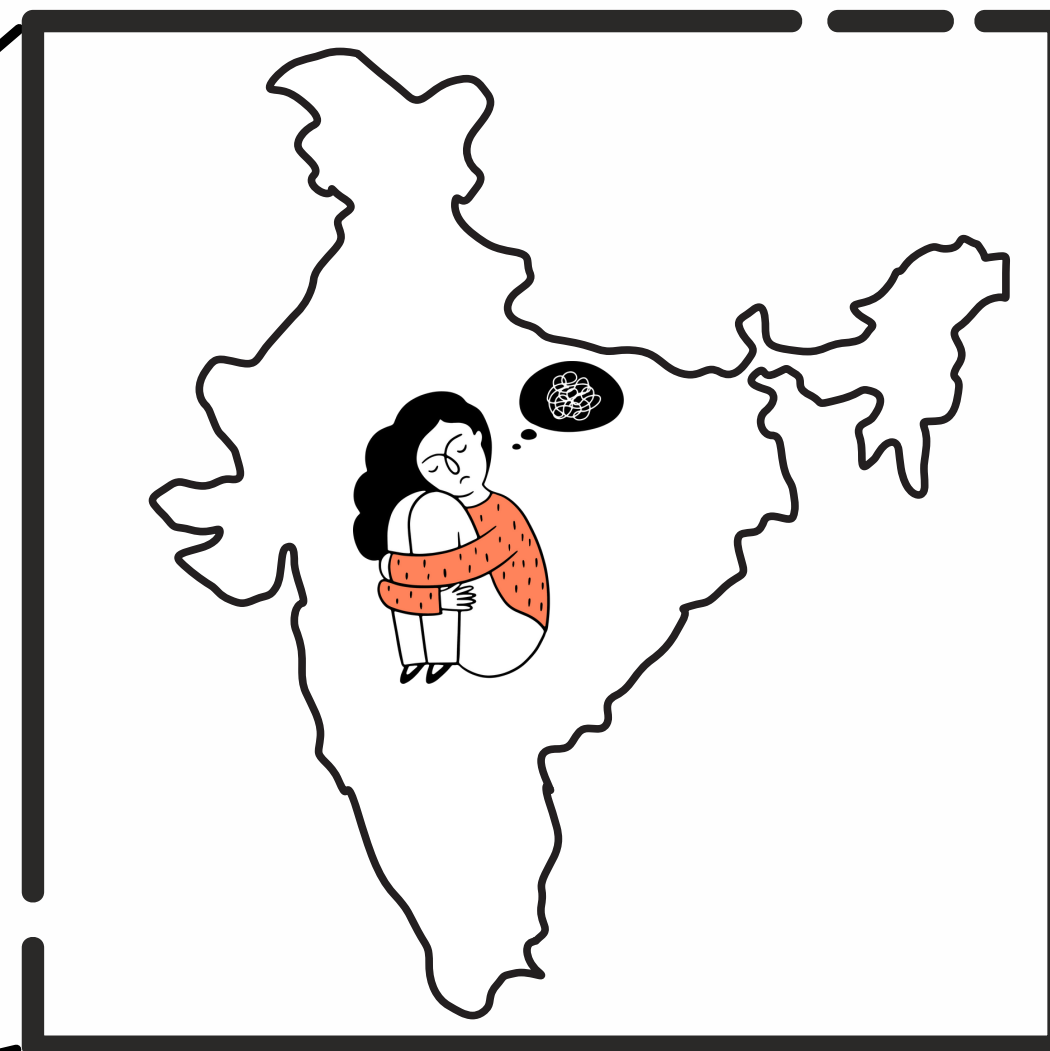
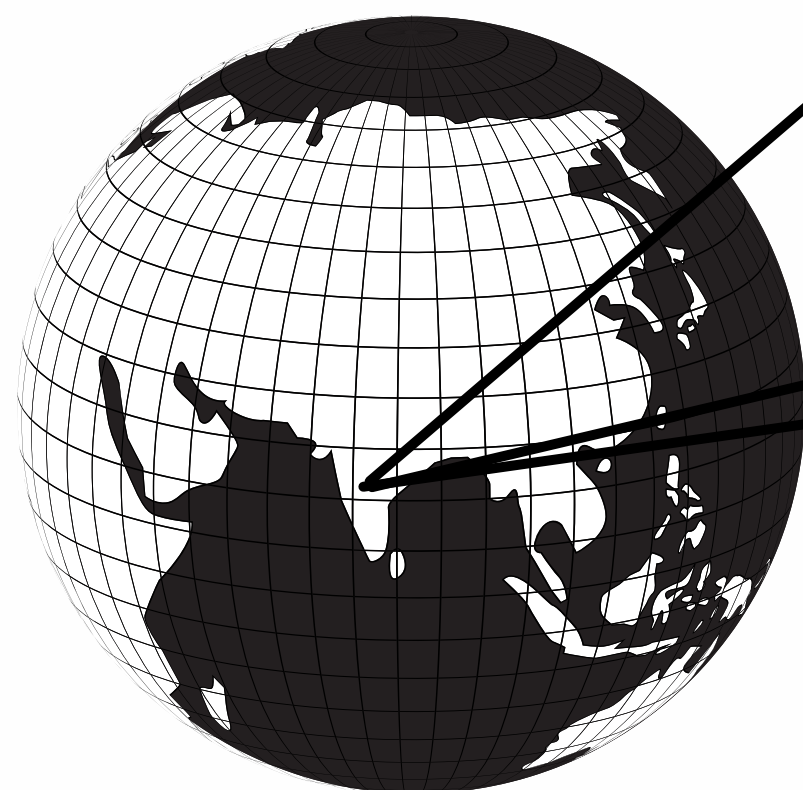


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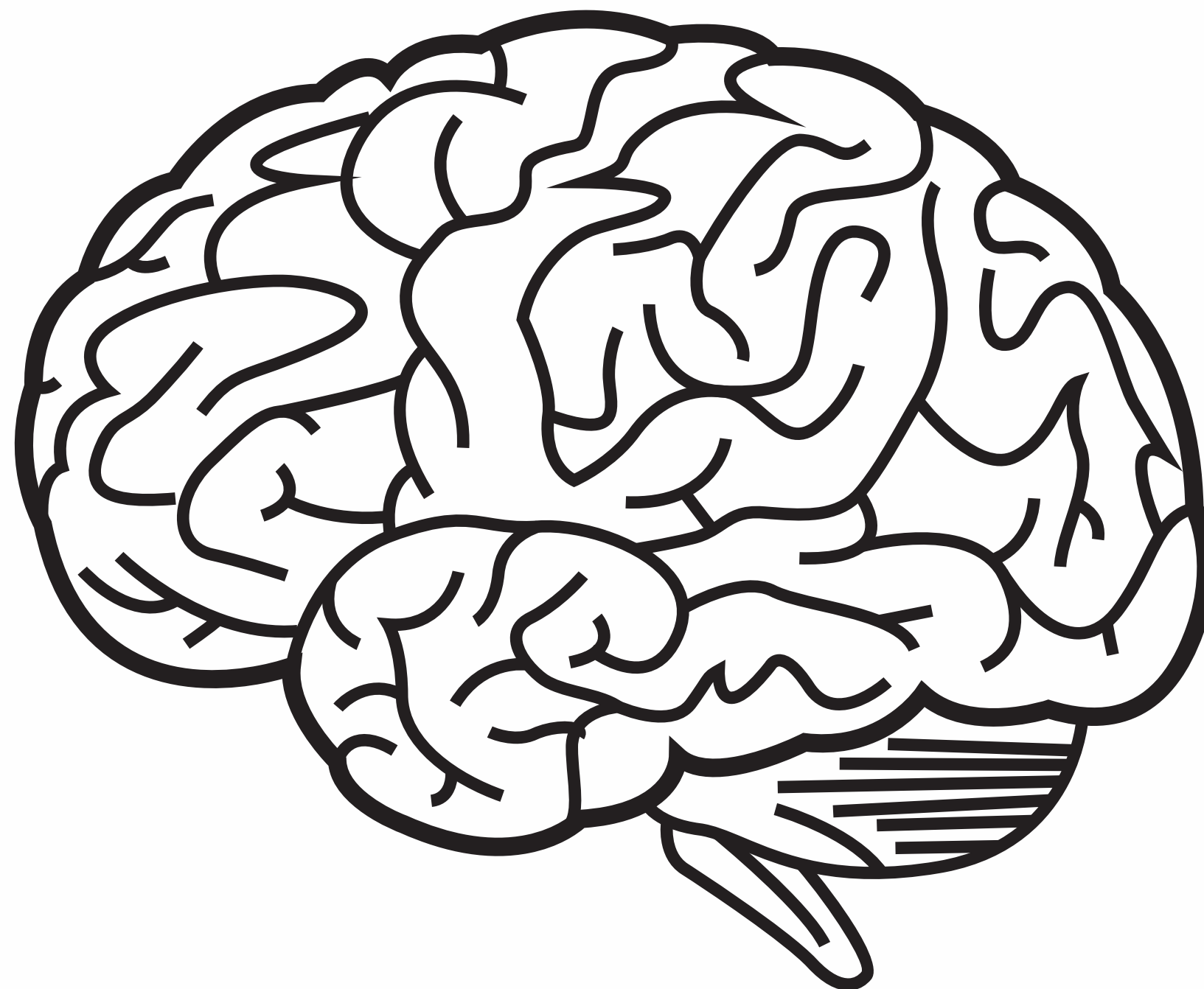
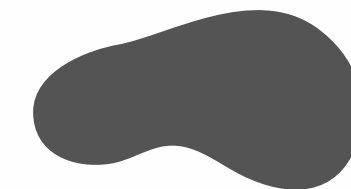
Current senario



7.5%

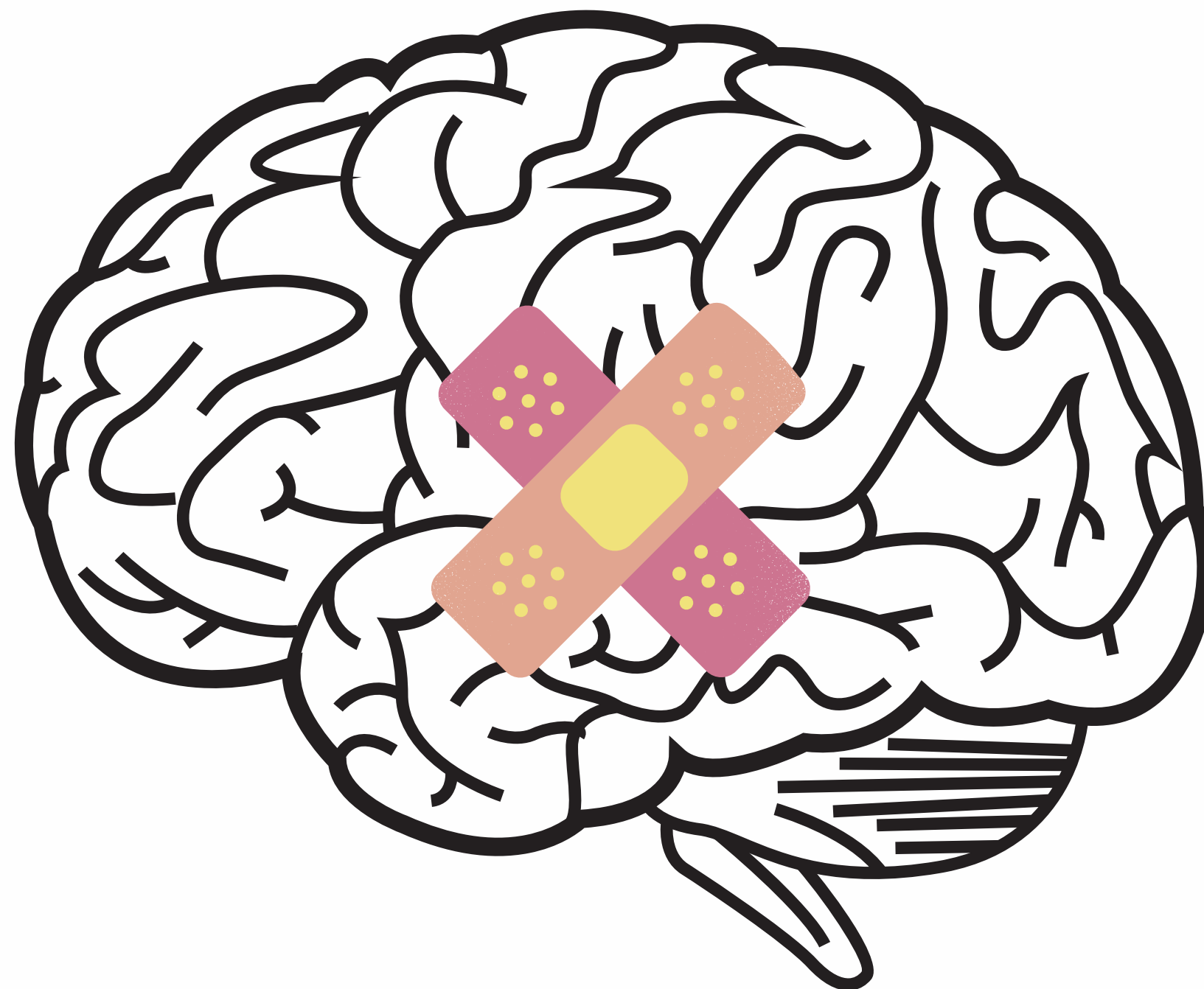
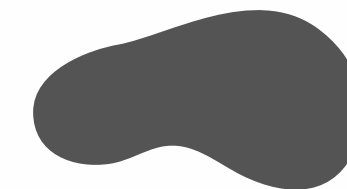


Causational approach



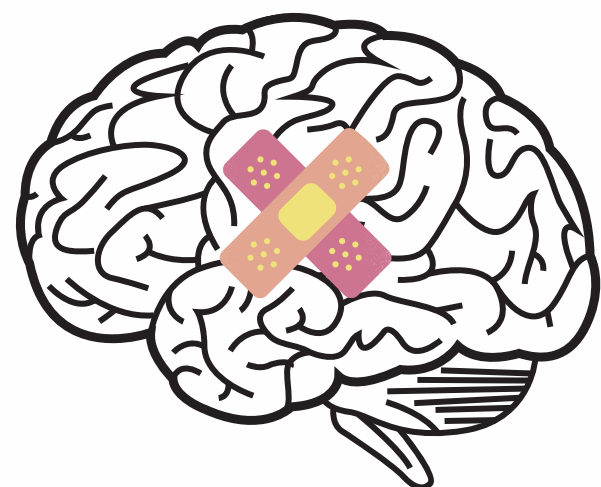
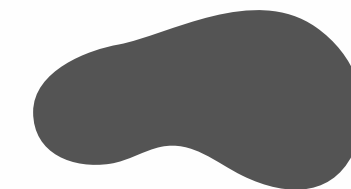


Causational approach



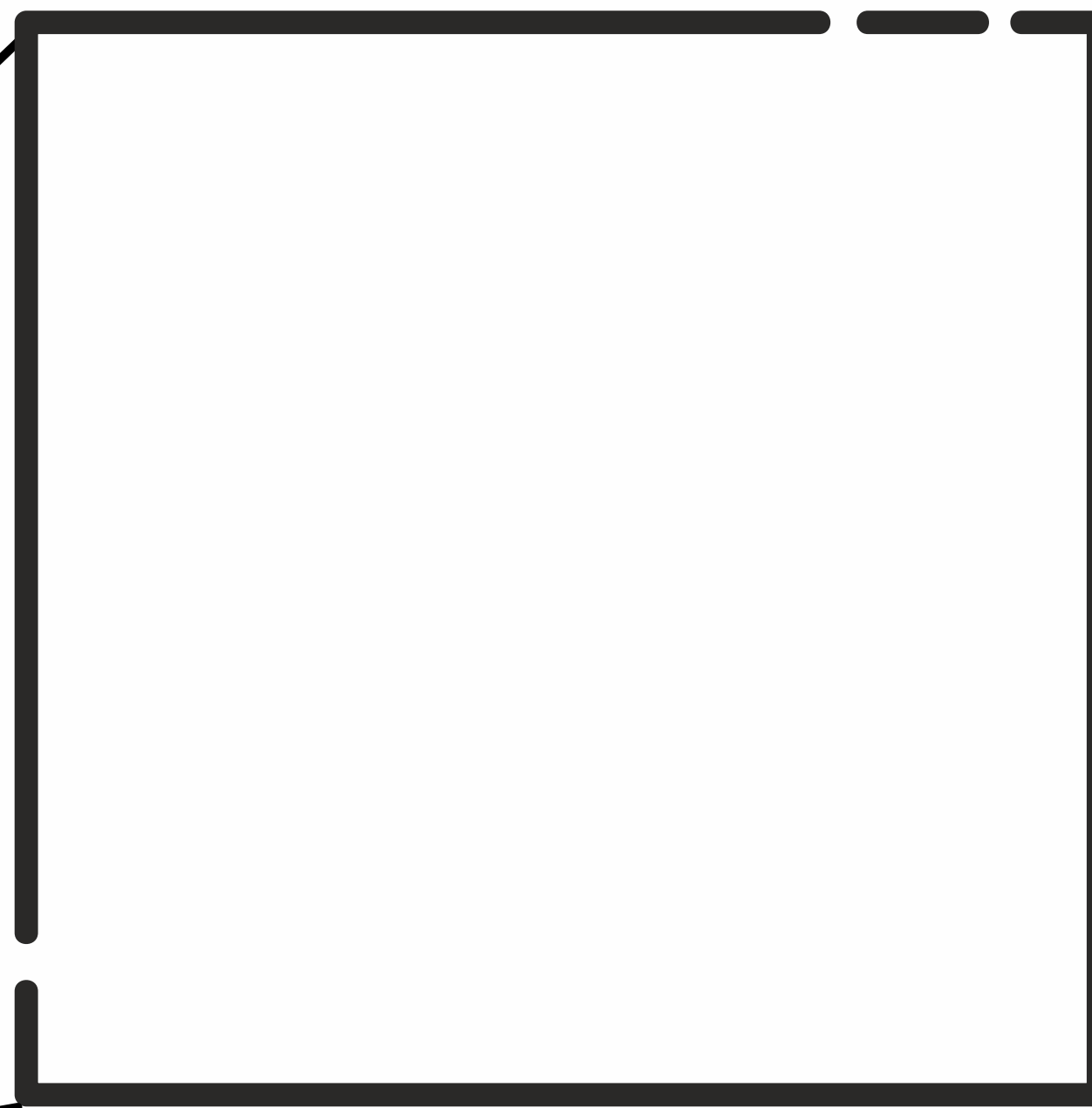
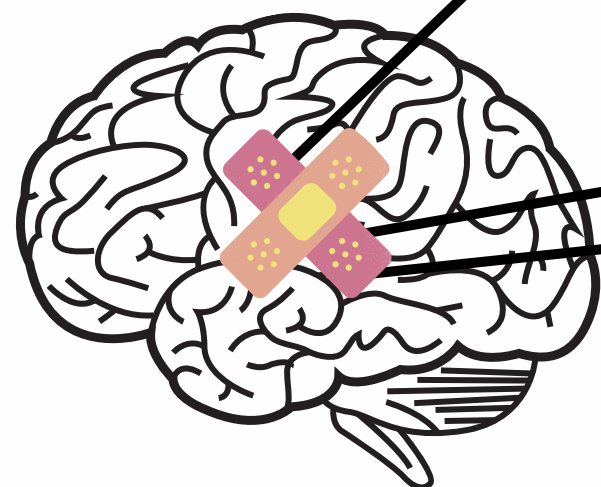
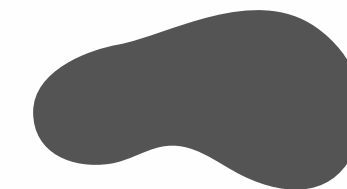


Causational approach



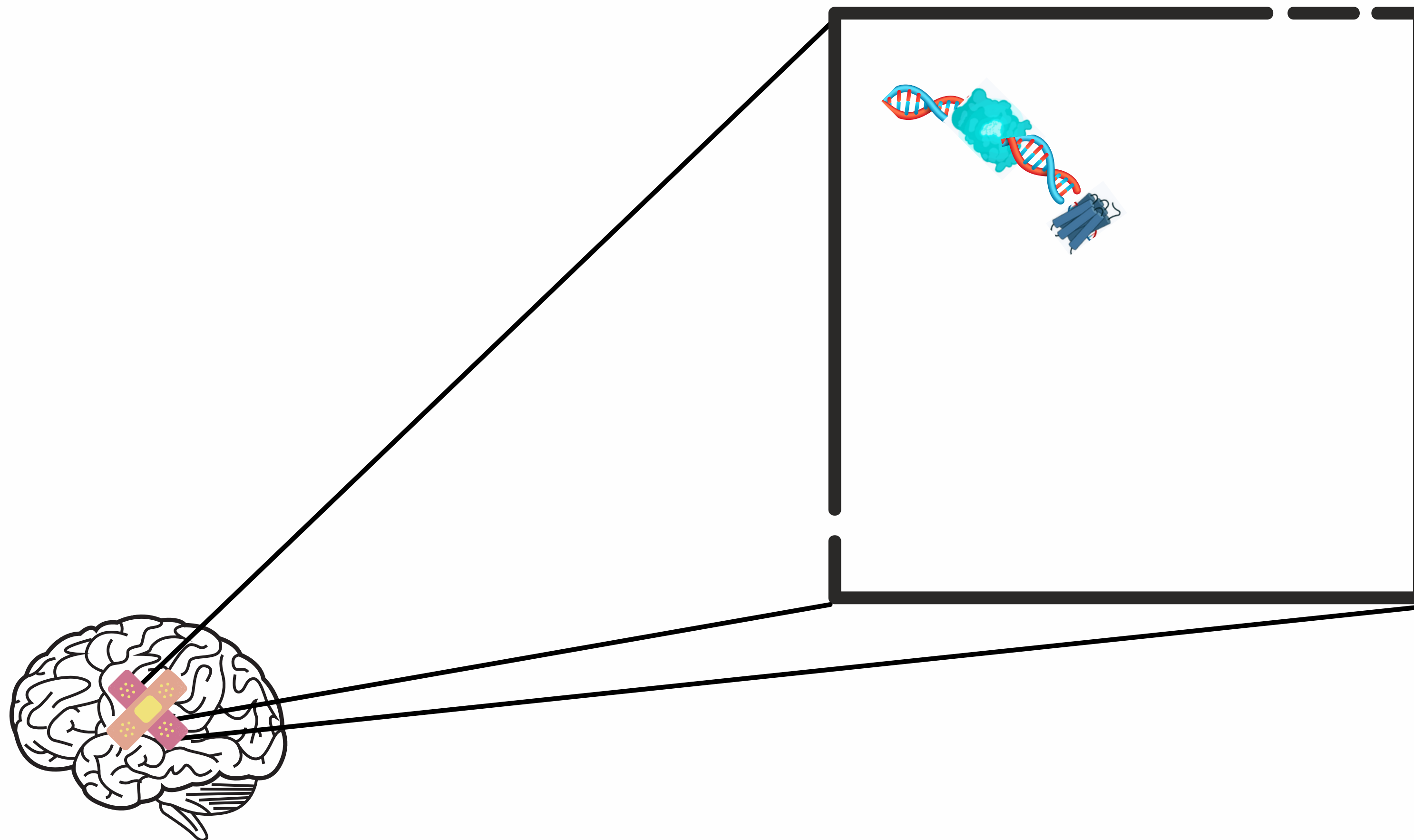
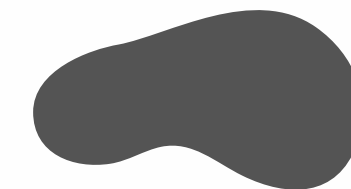


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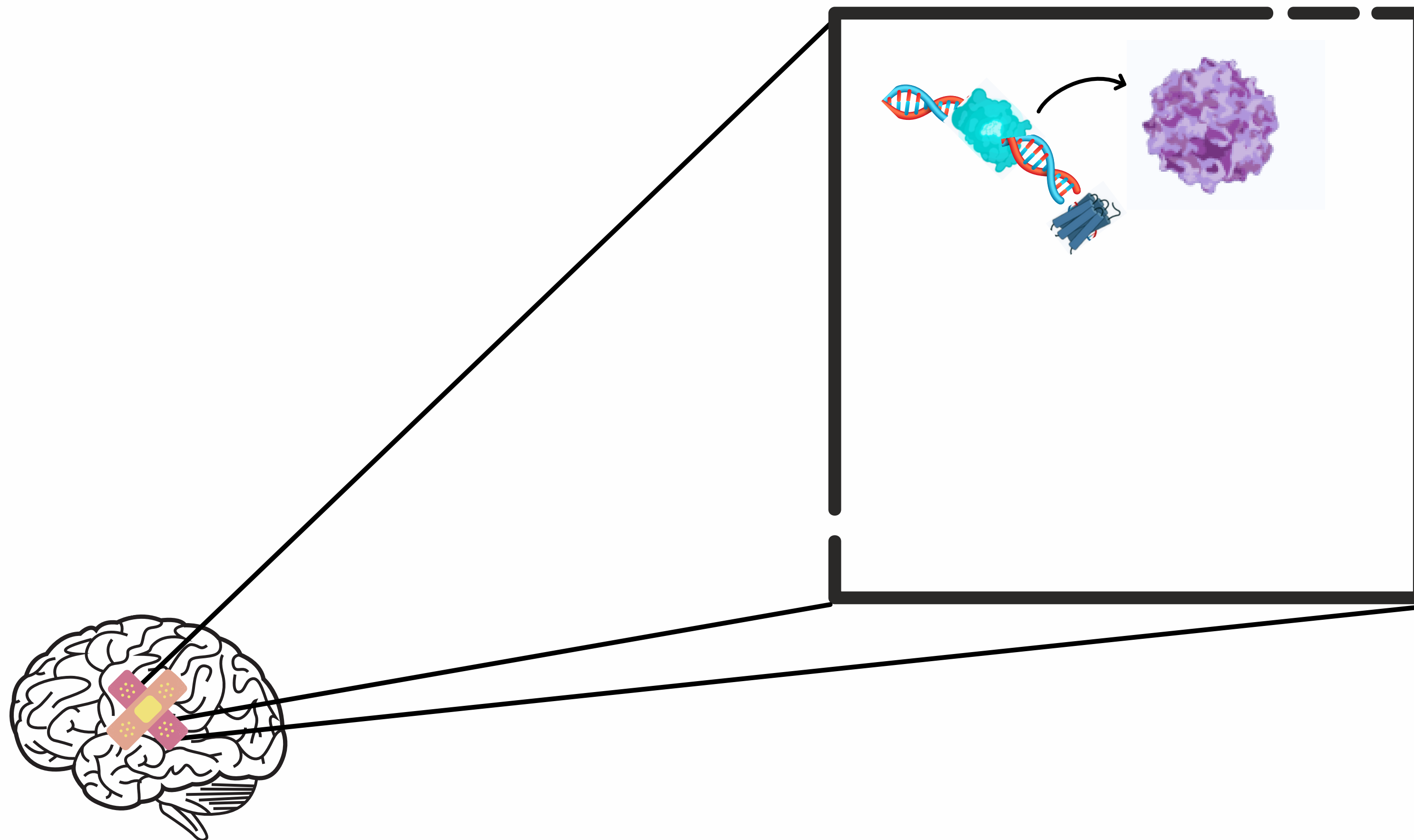
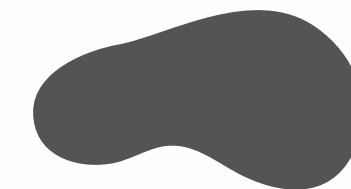


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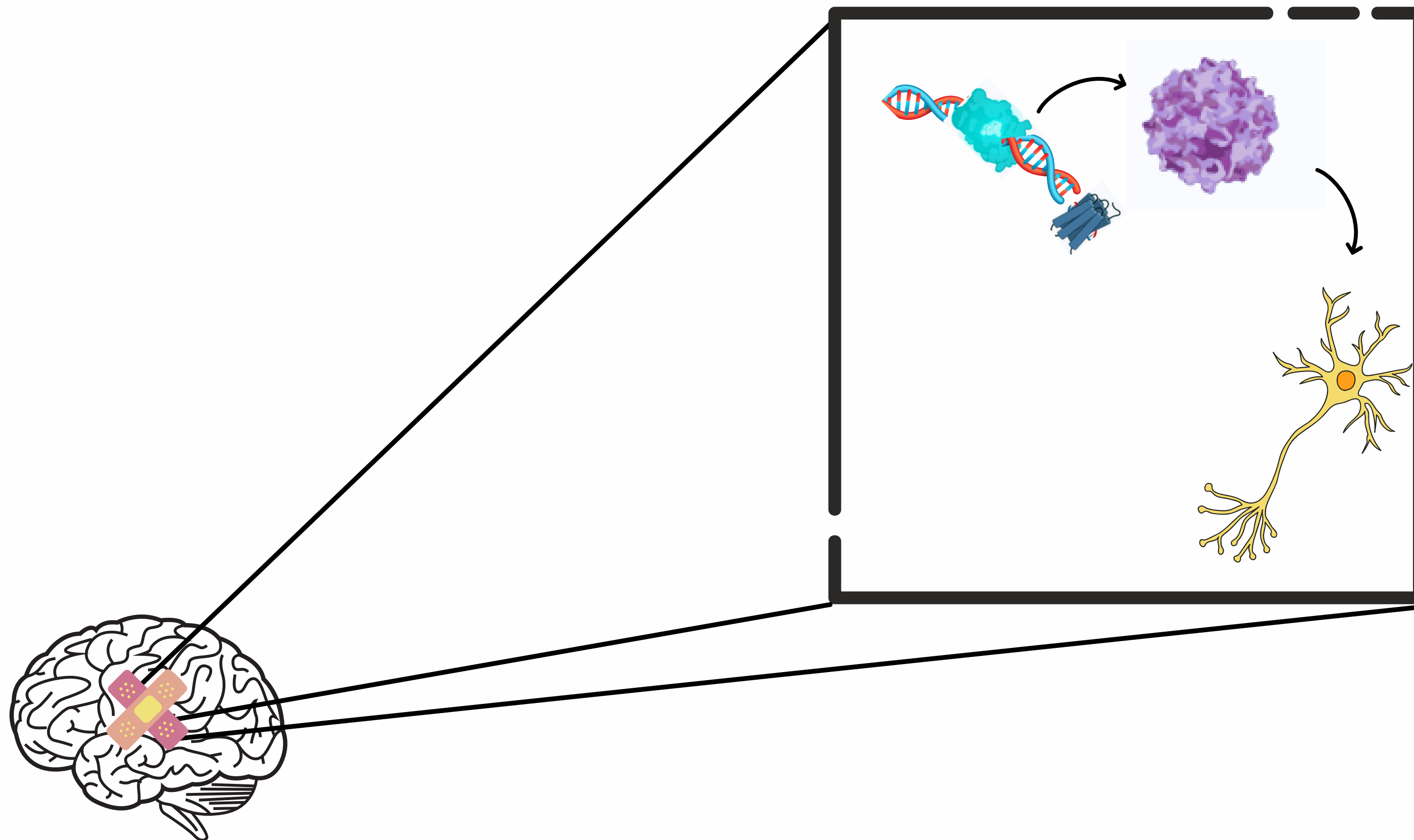
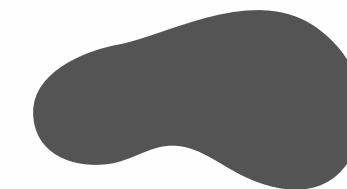


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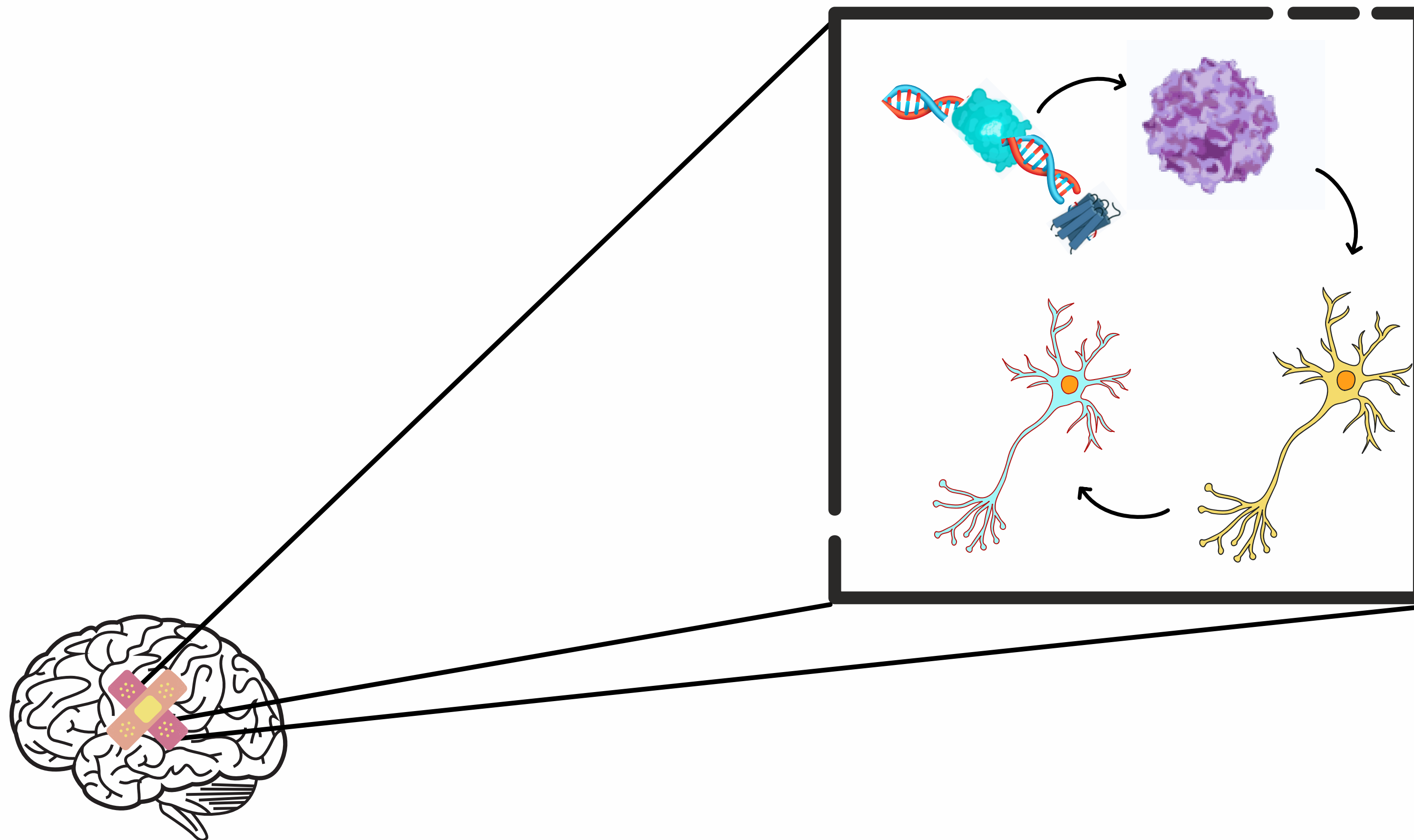
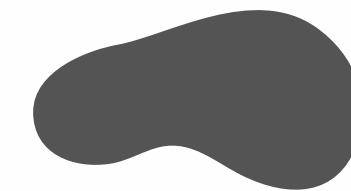


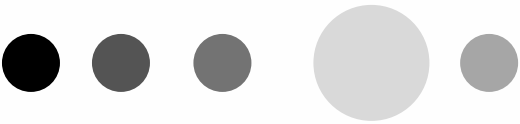
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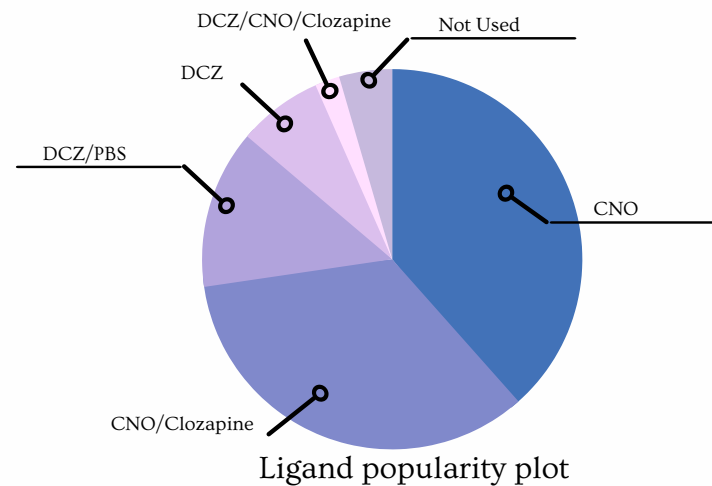
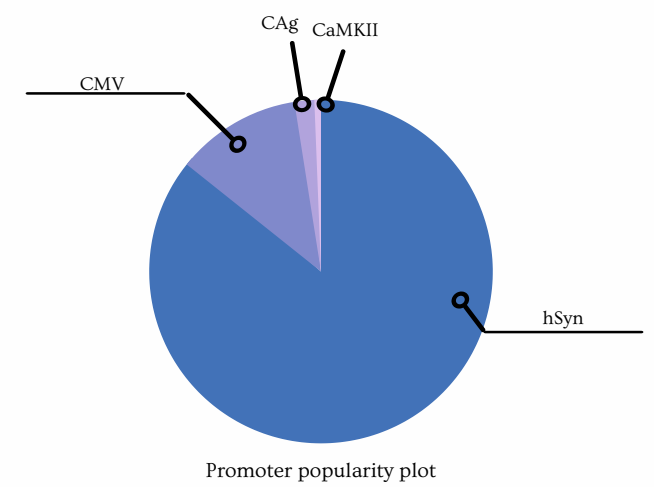
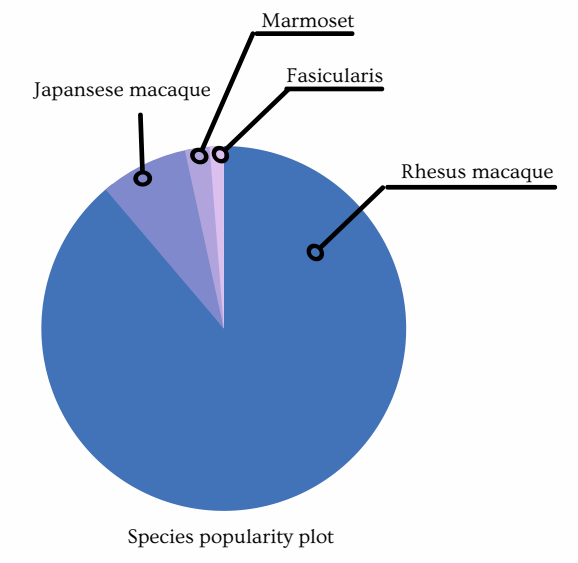
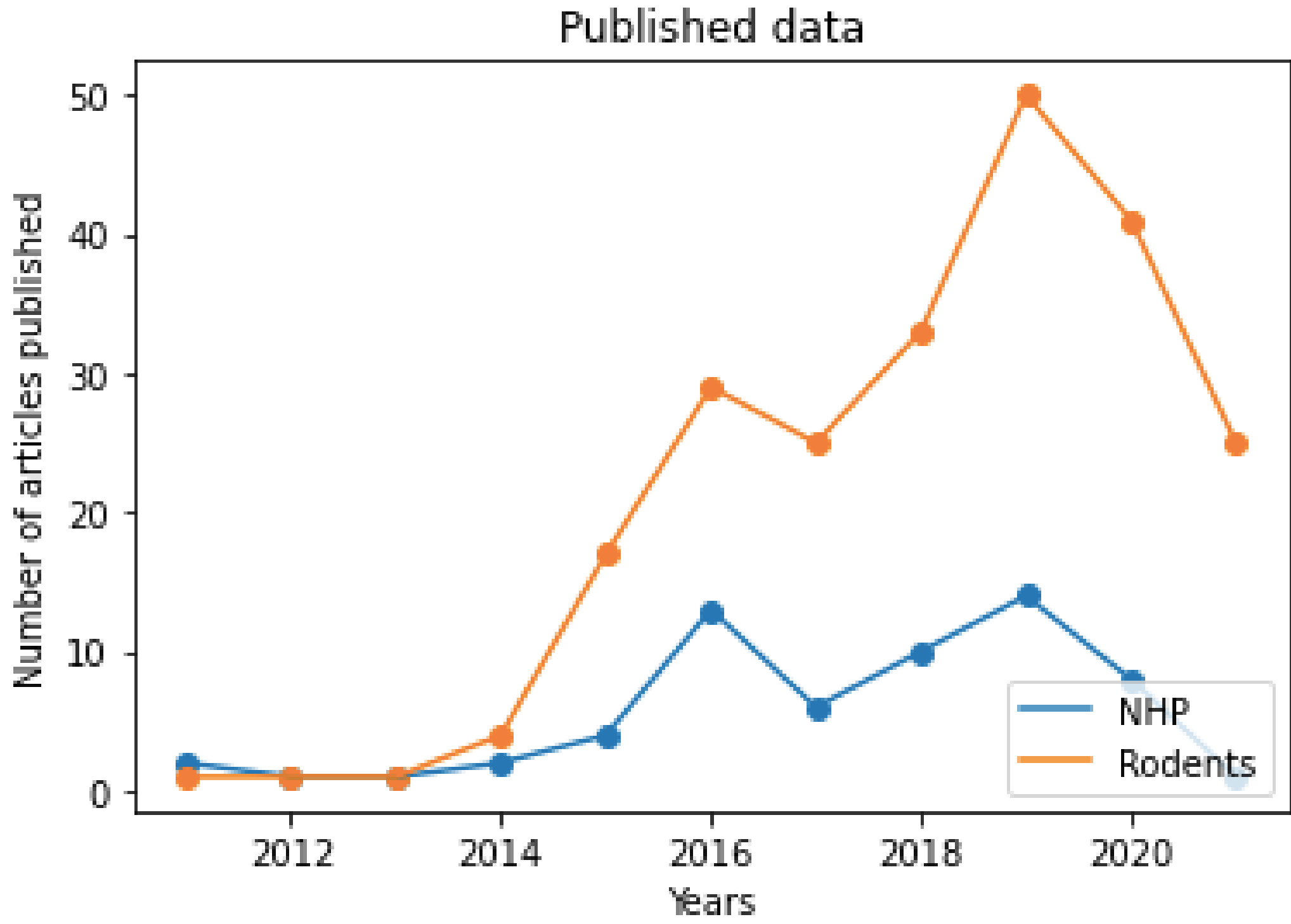
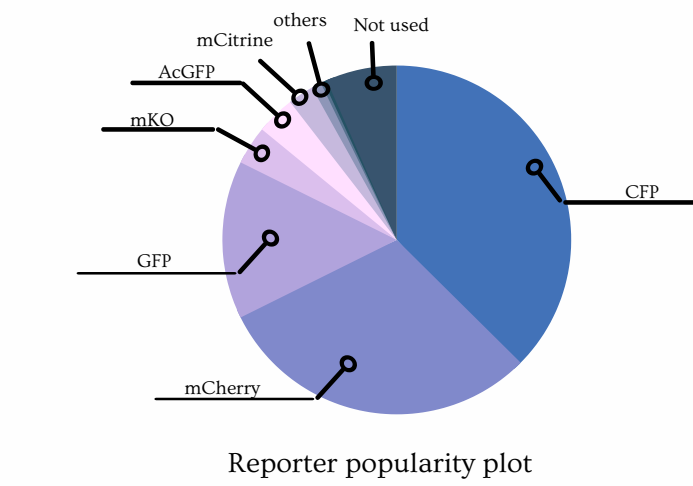
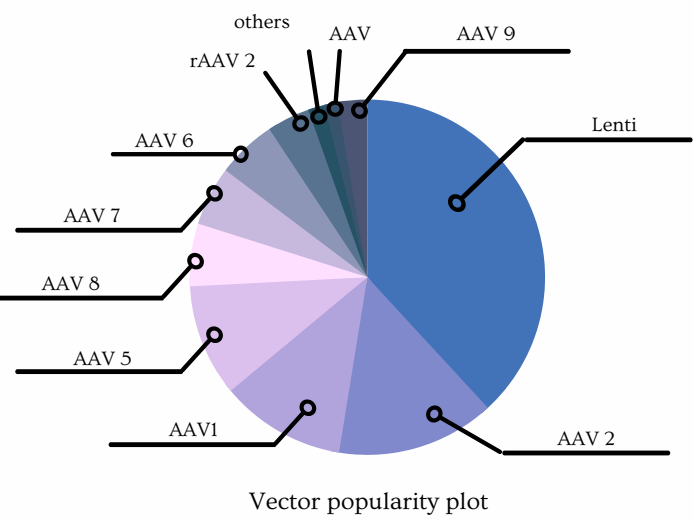
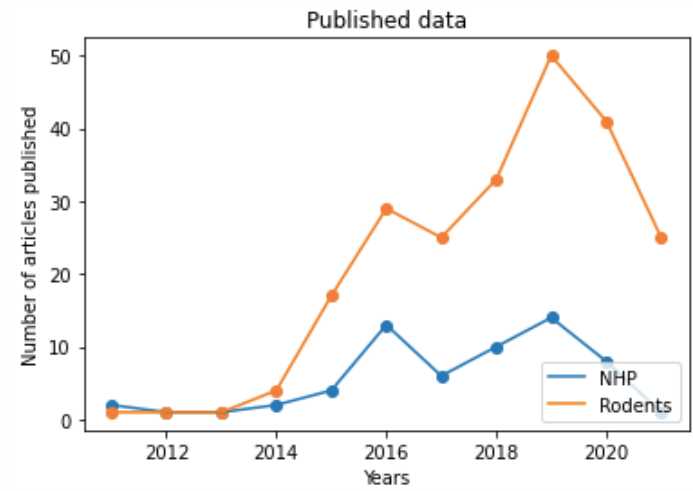
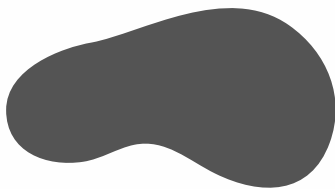


Causational approach



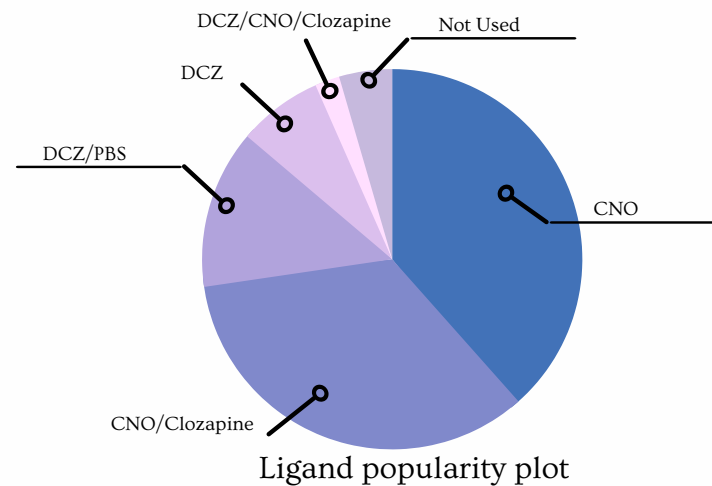
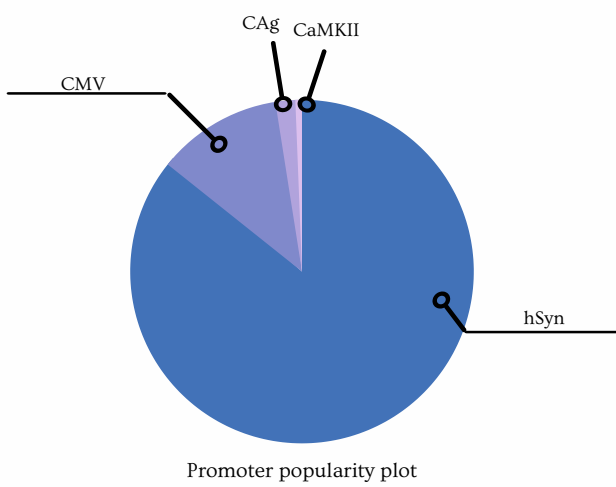
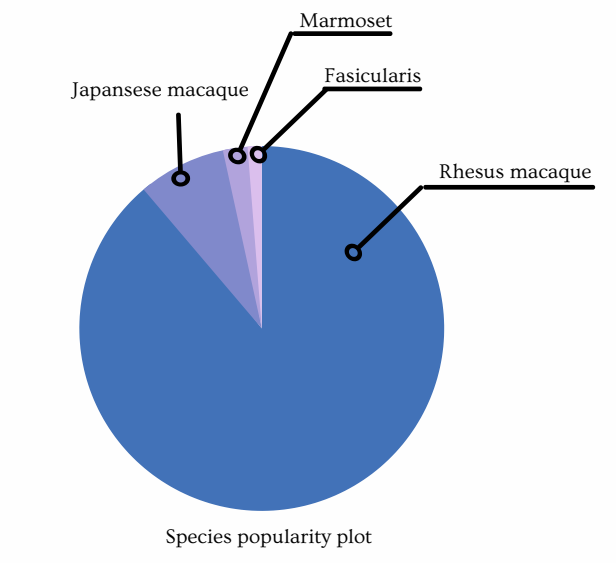
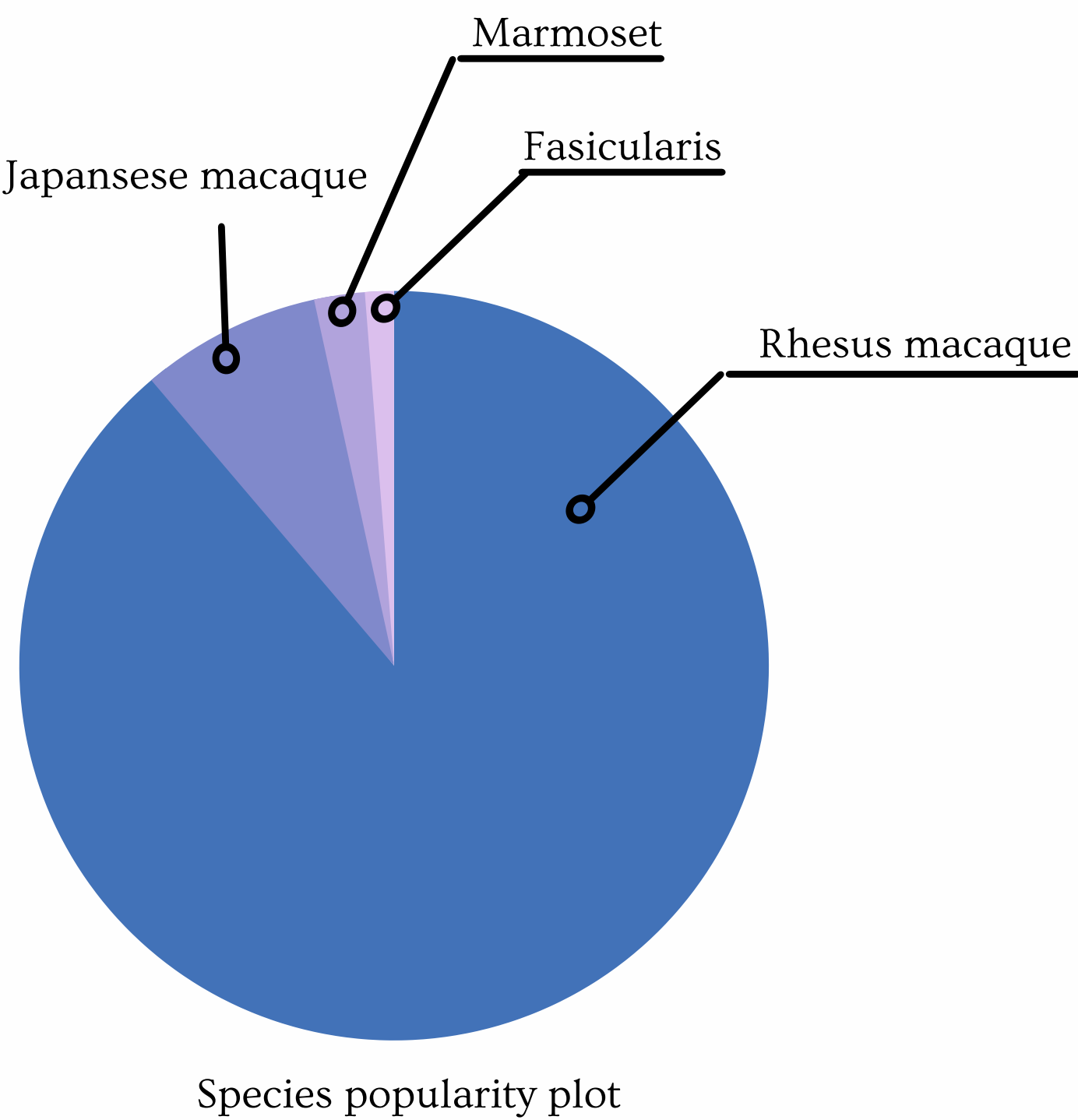
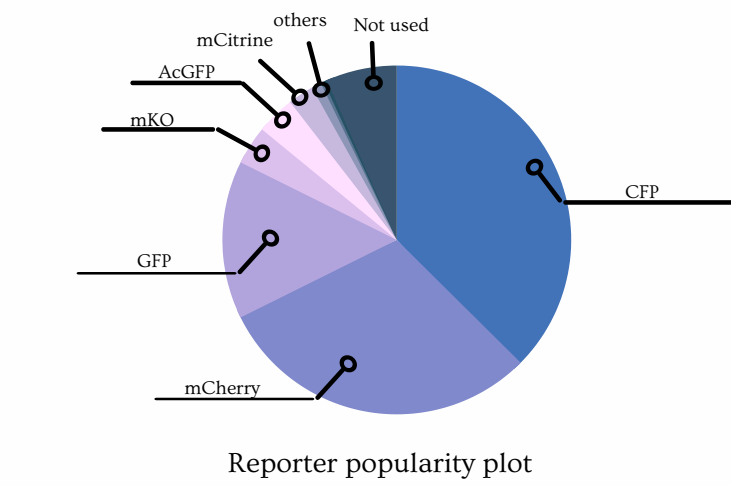
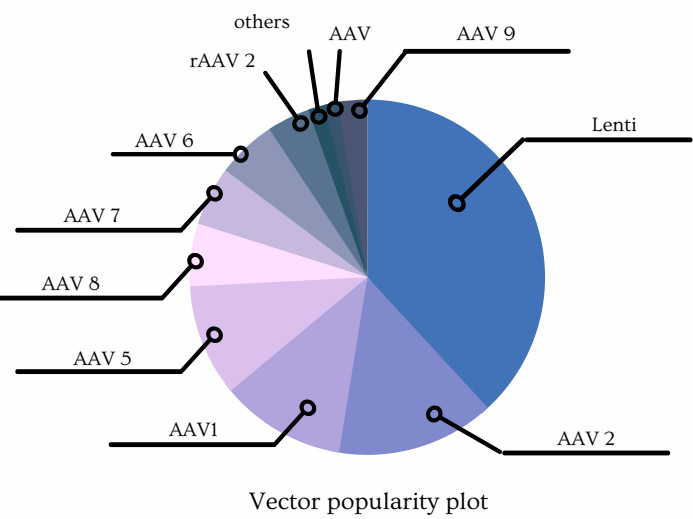
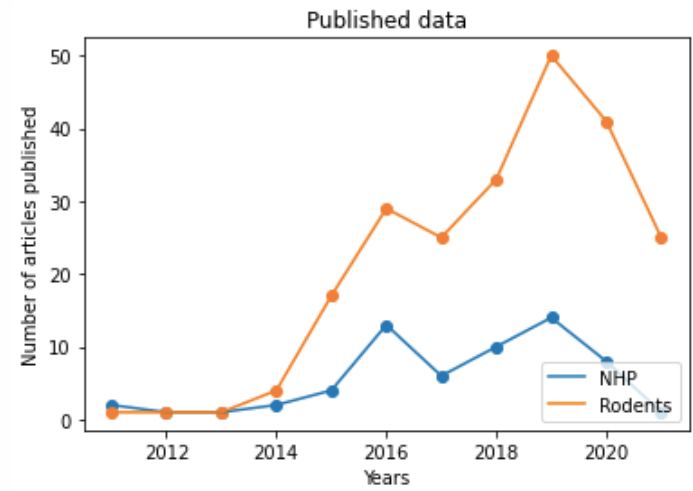
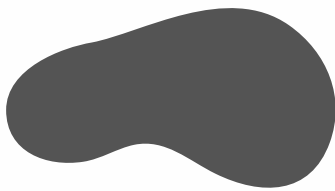


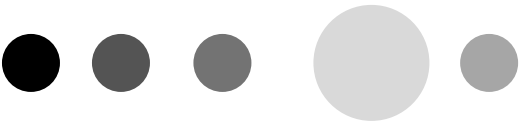
Results



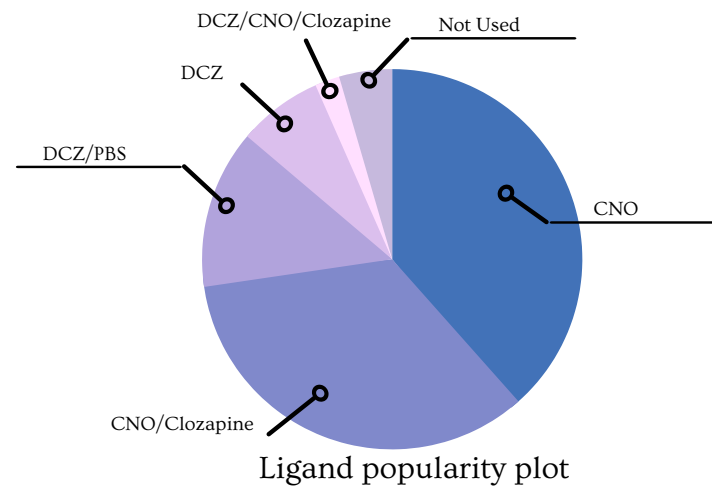
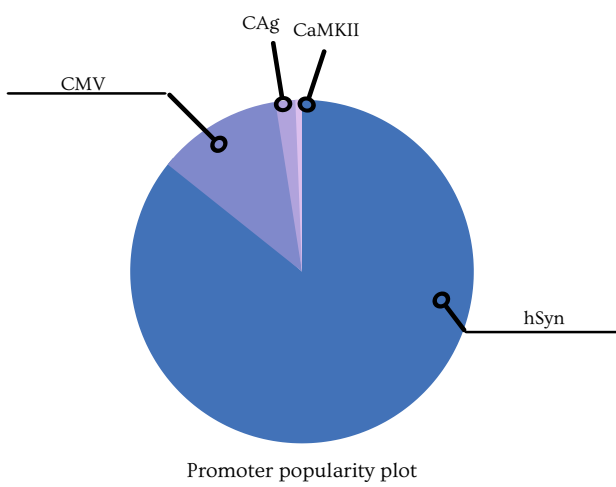
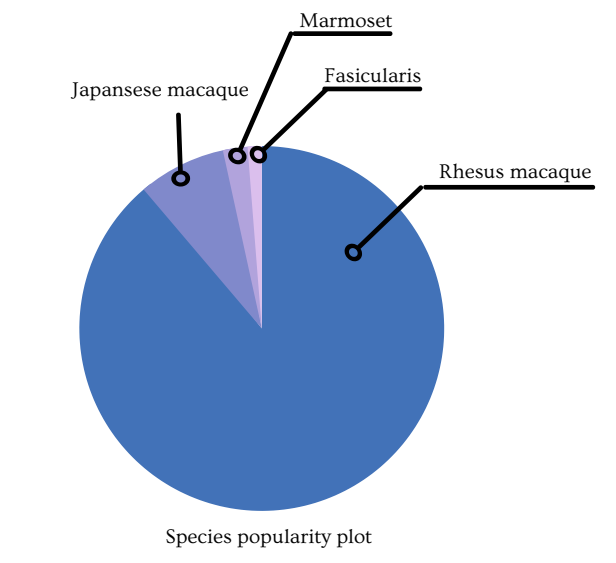
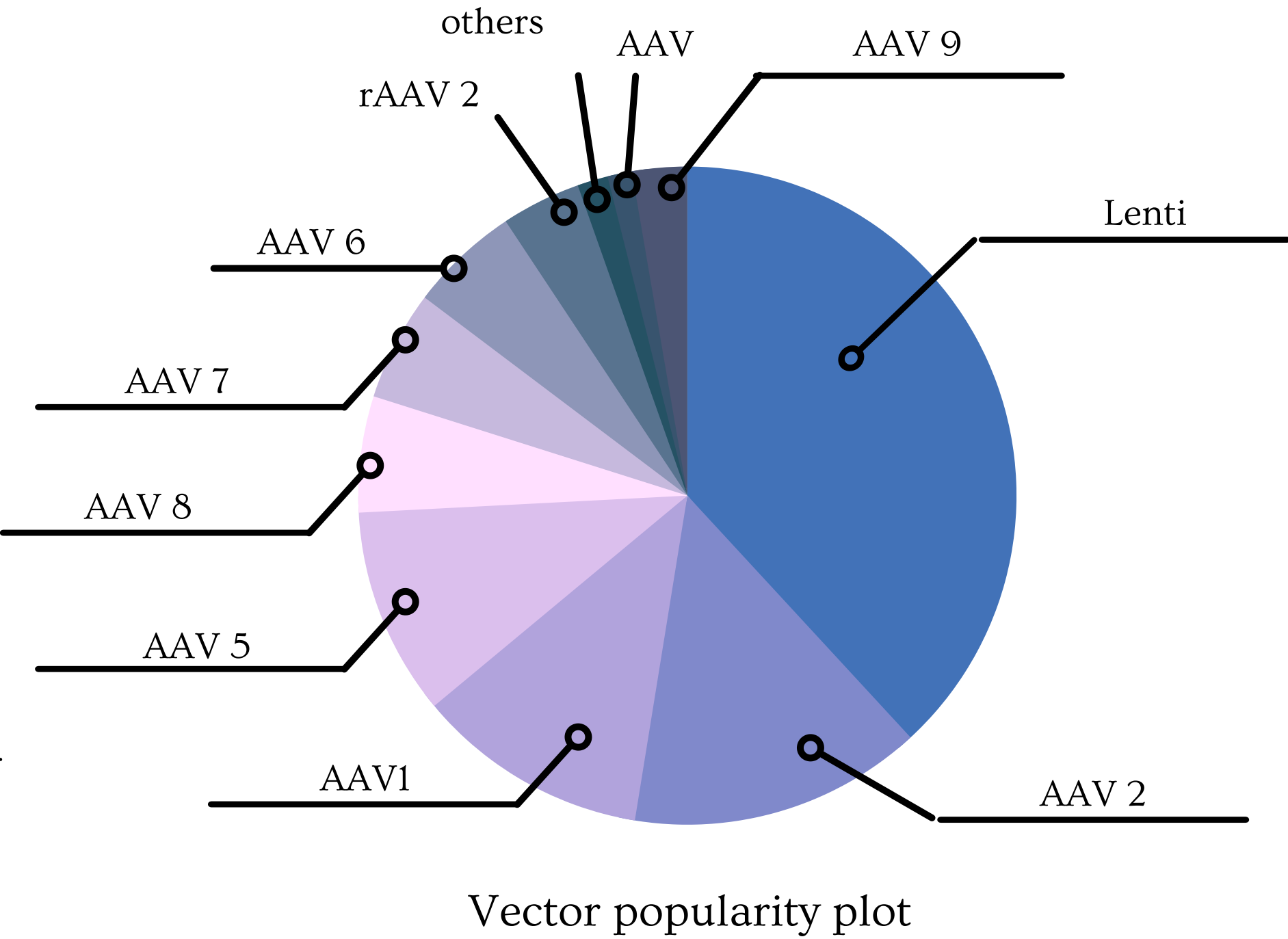
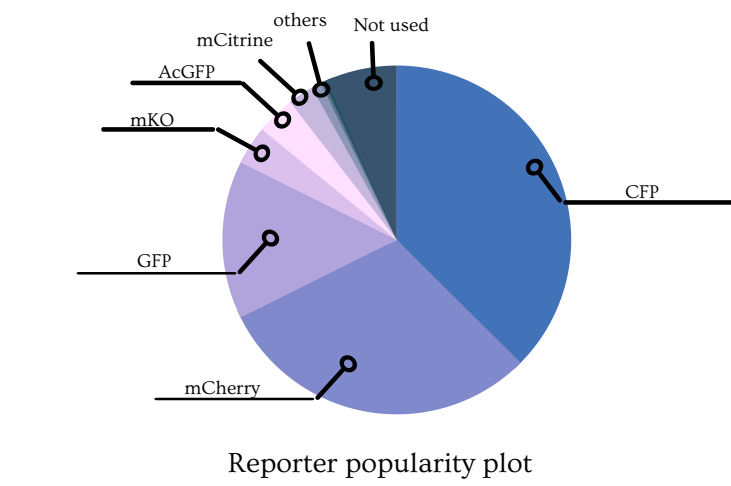
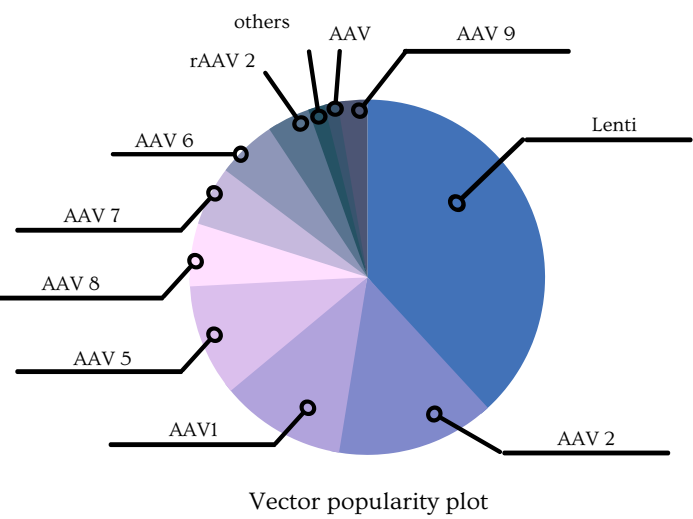
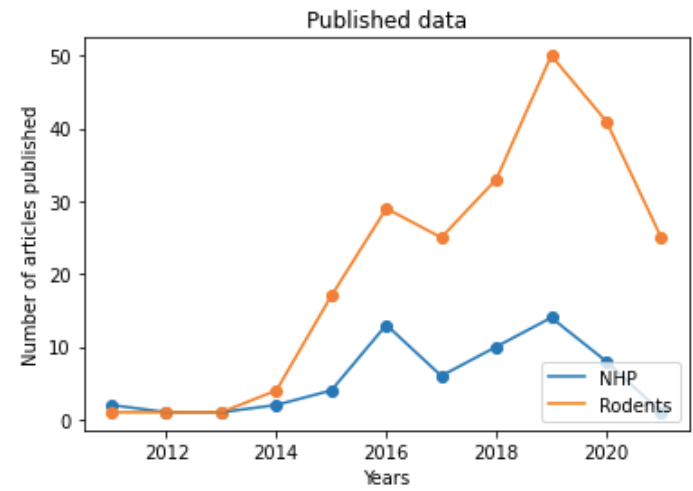
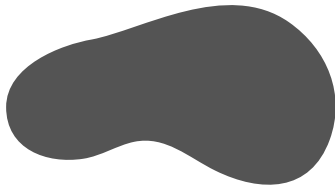


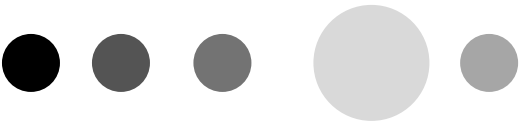
Results



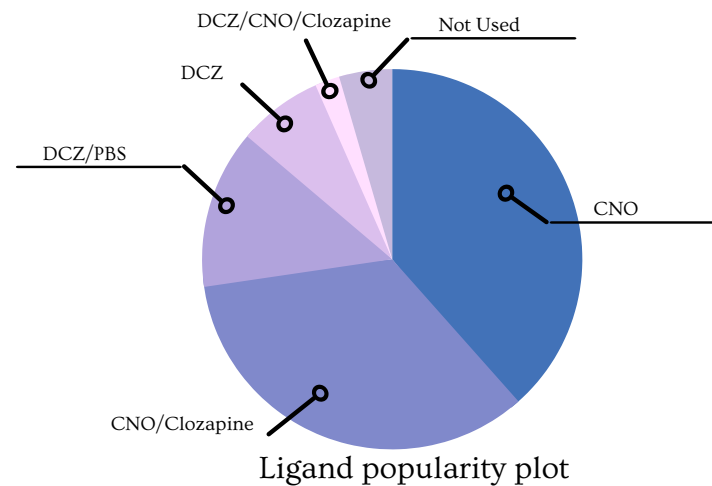
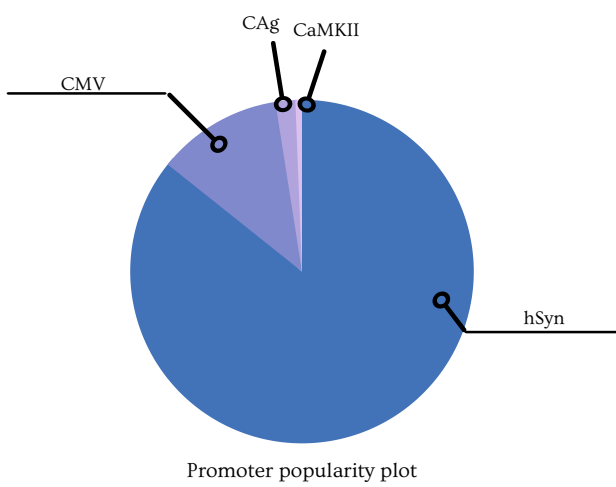
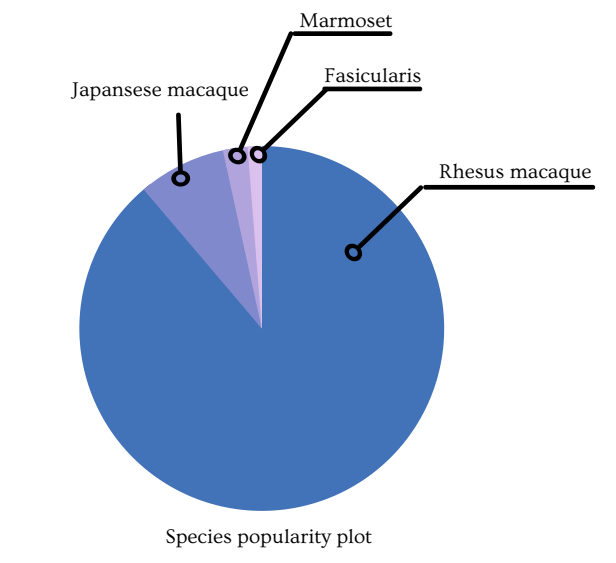
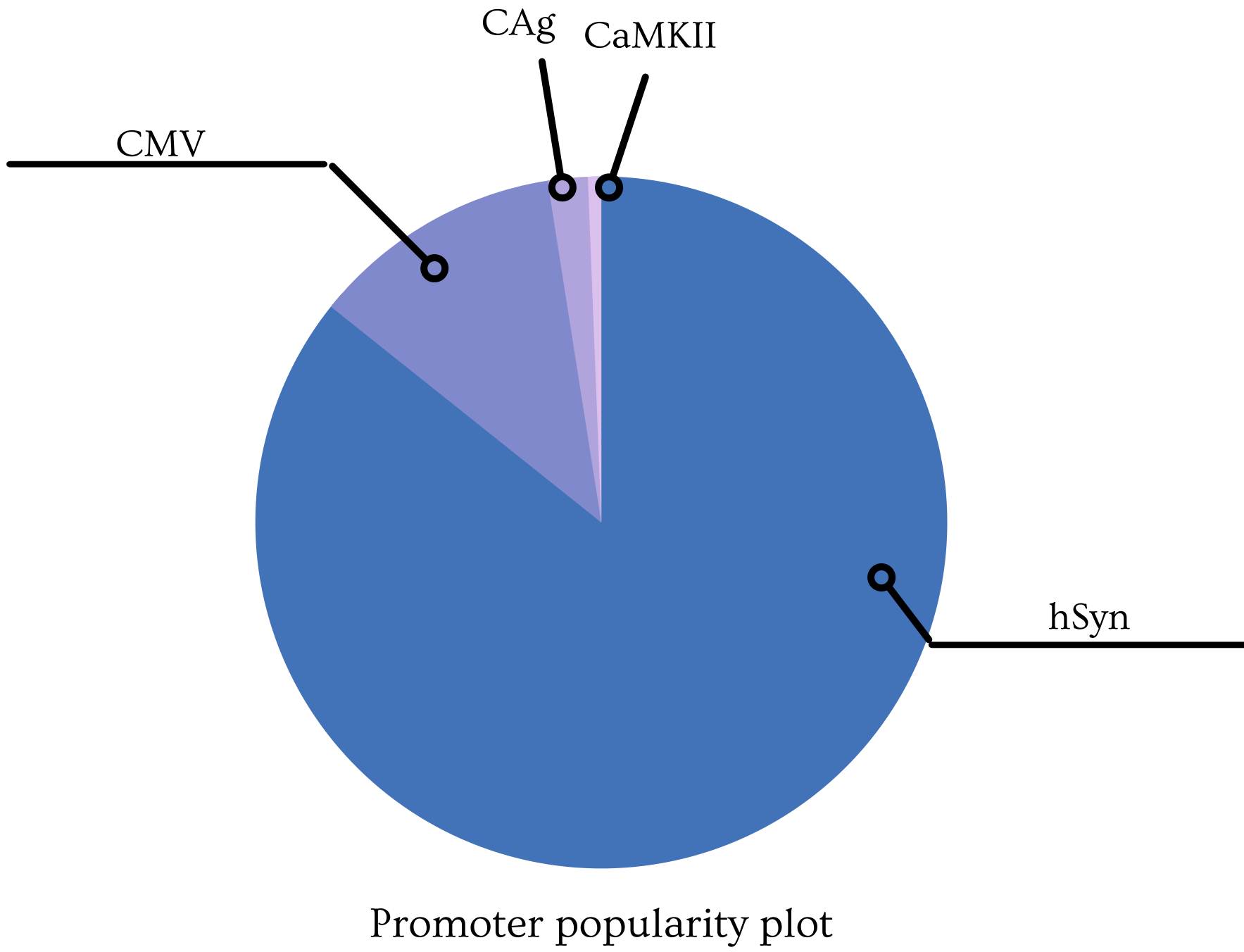
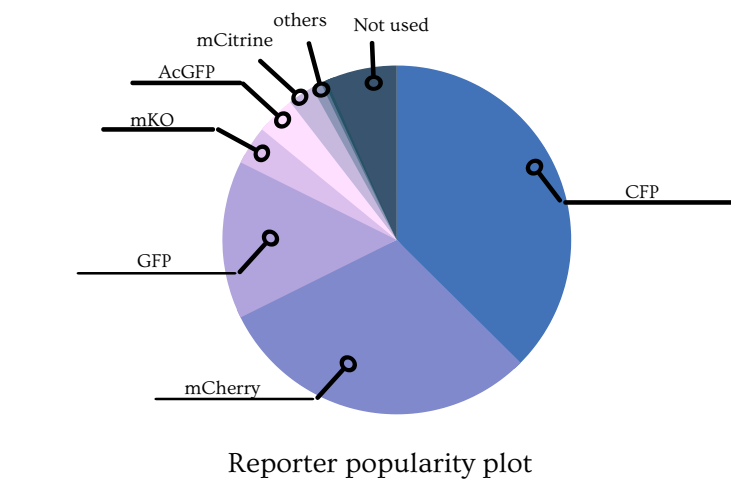
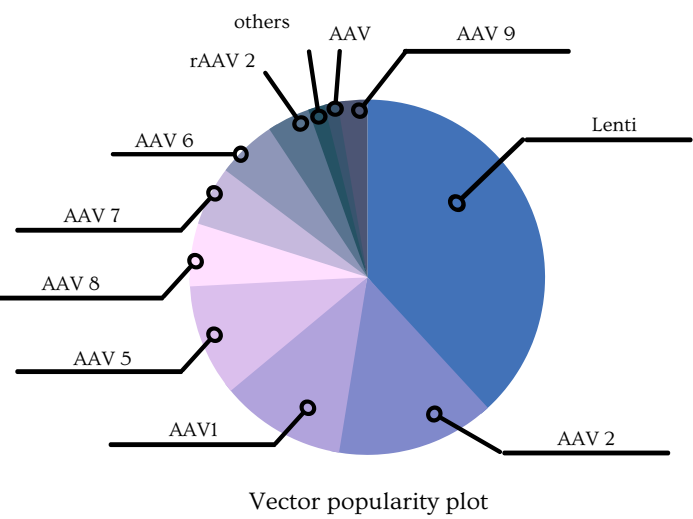
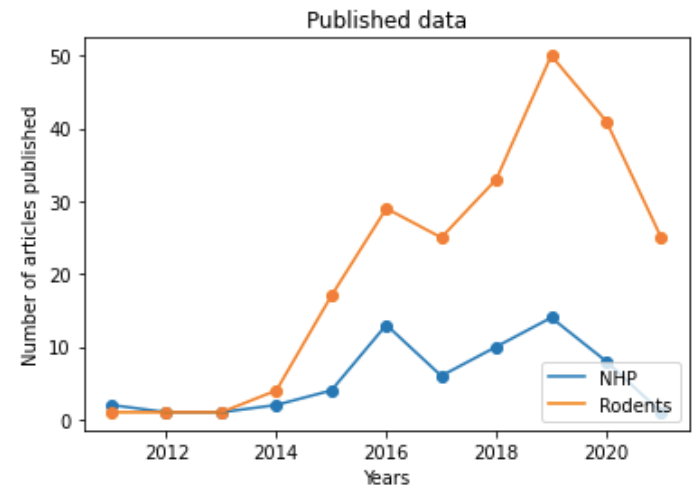
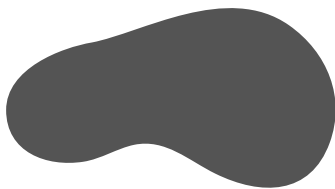


Results



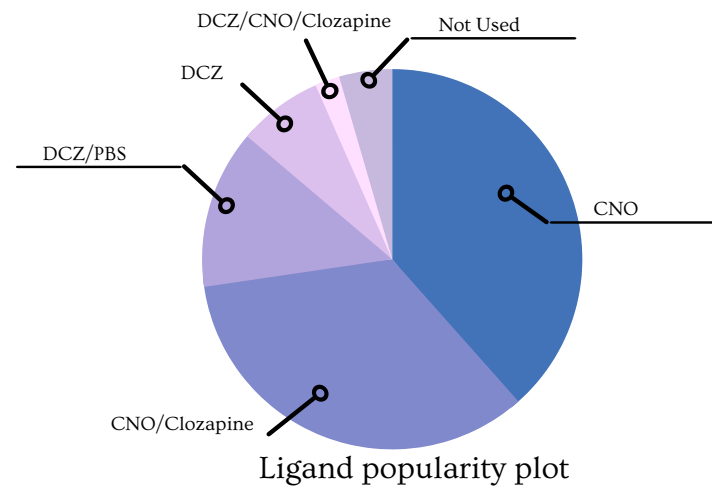
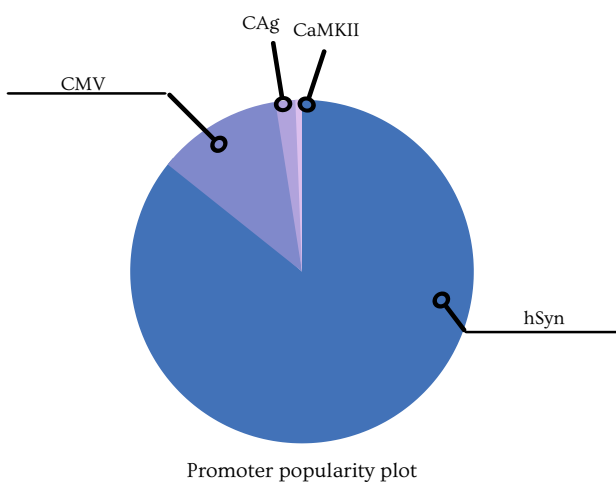
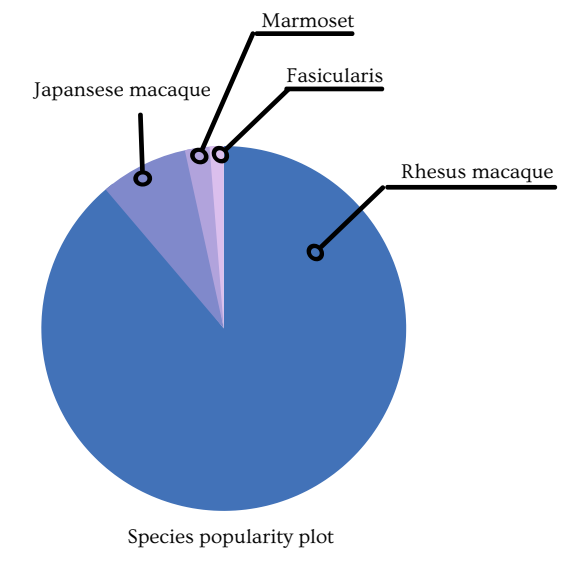
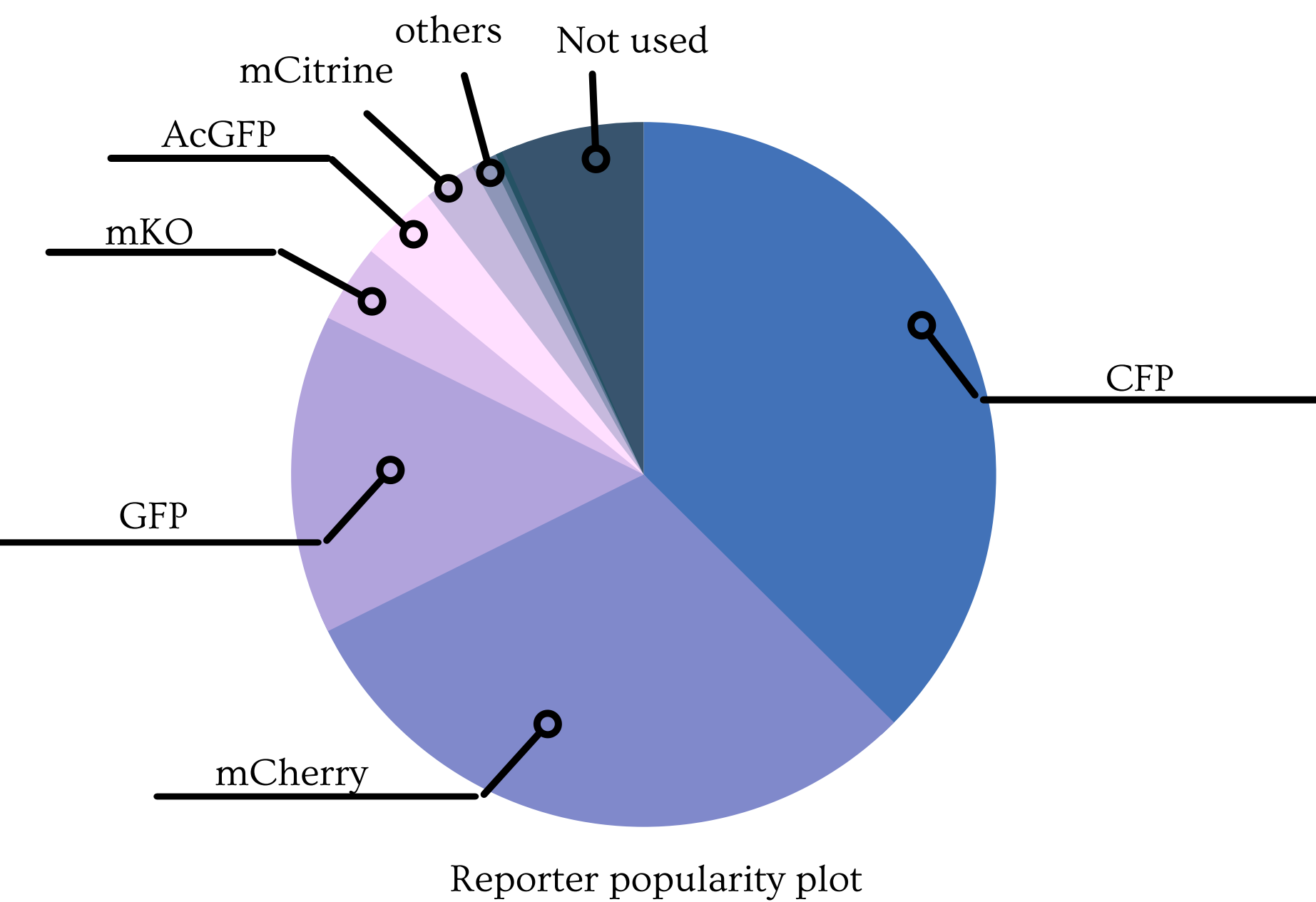
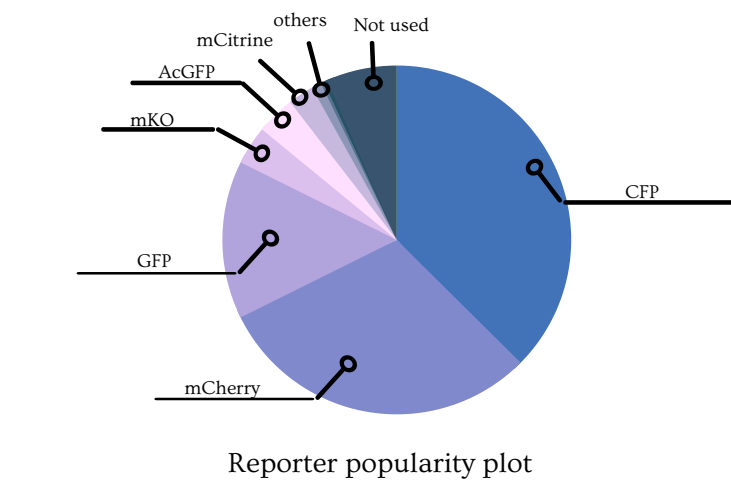
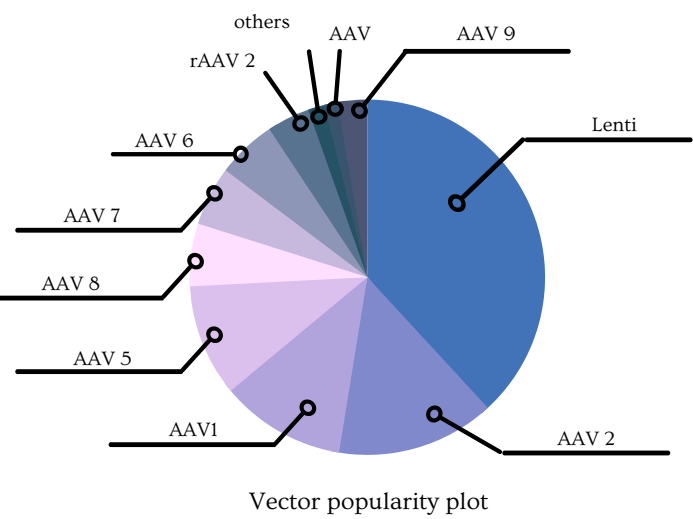
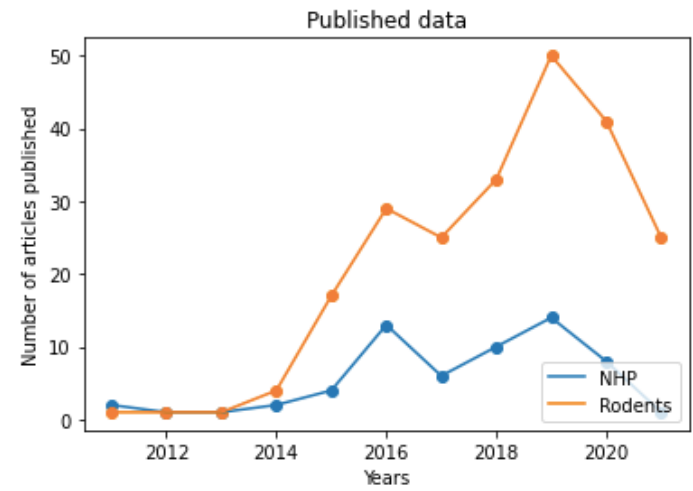
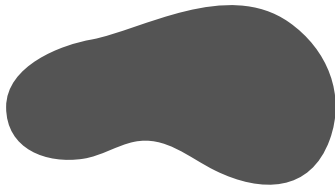


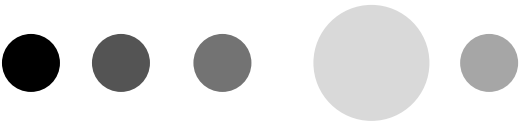
Results



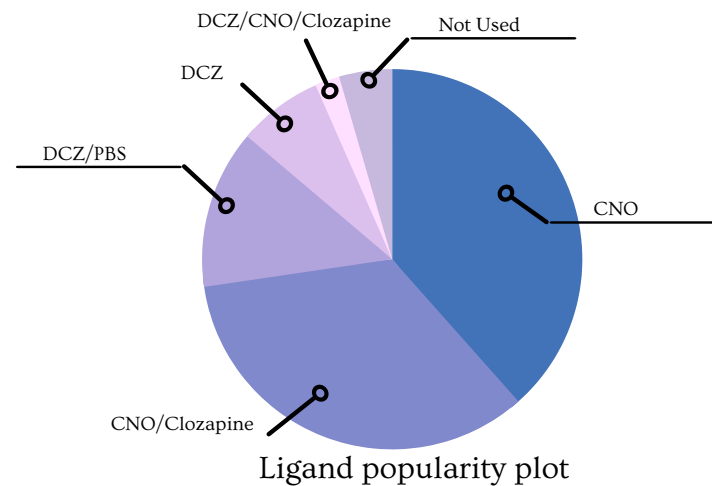
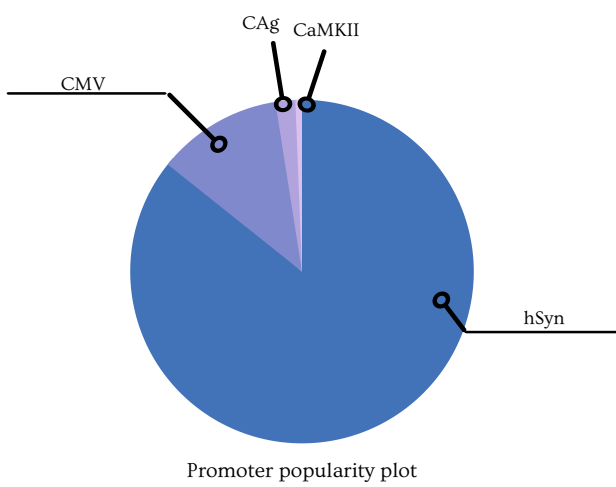
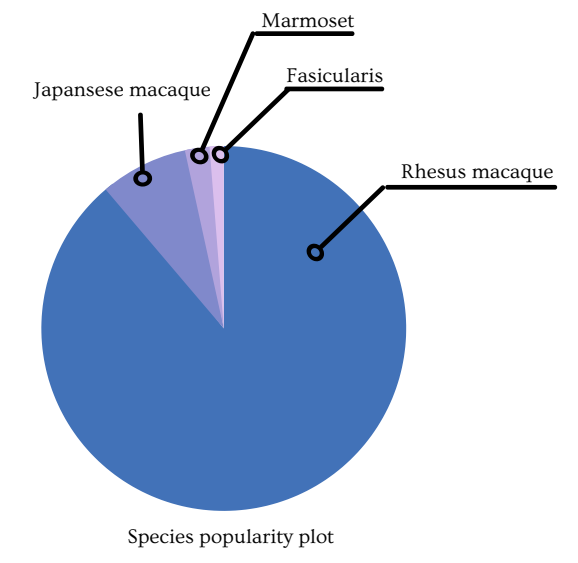
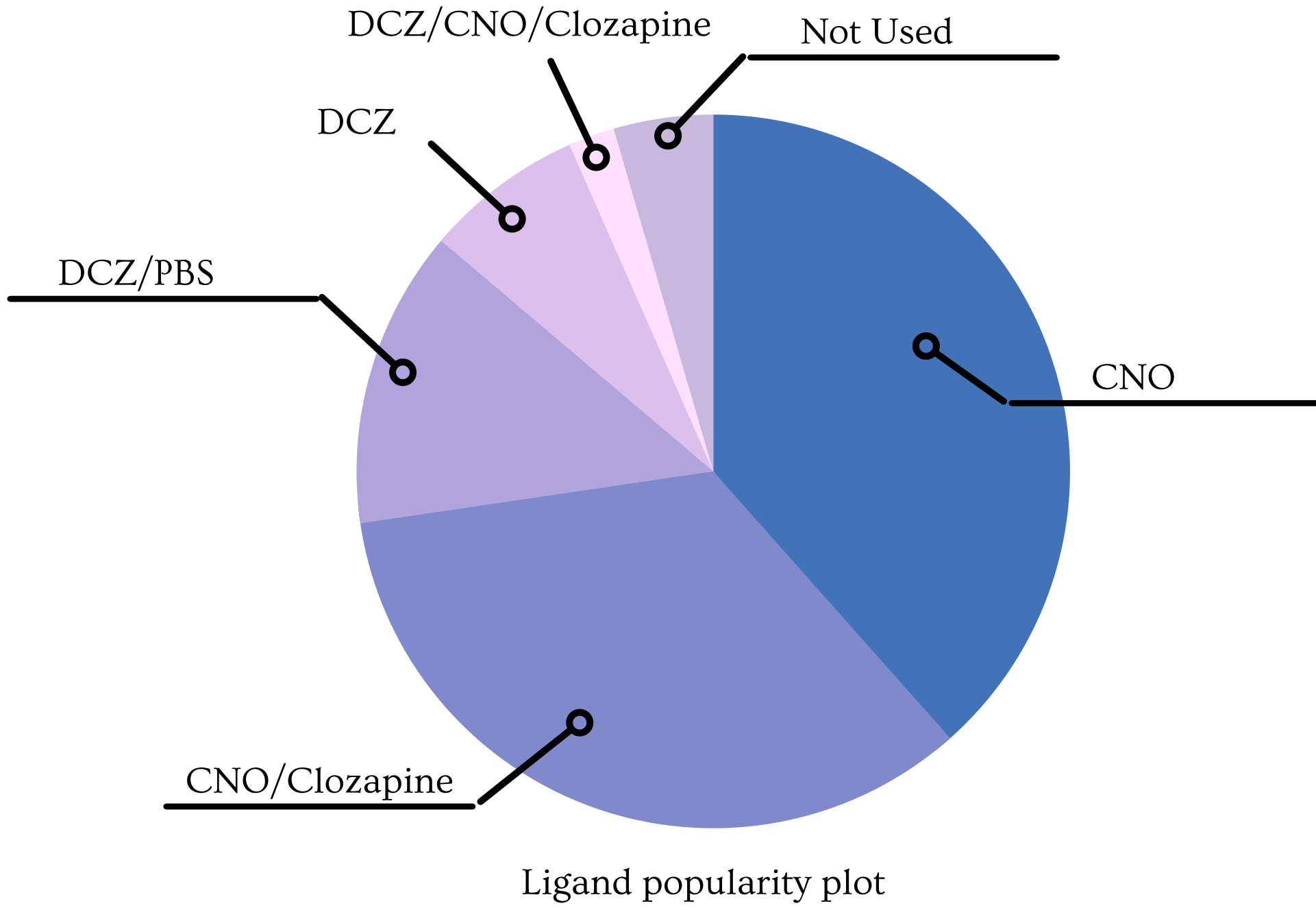
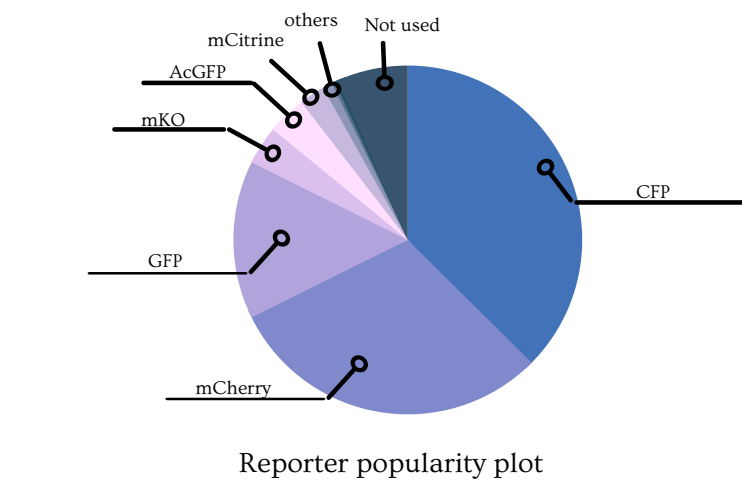
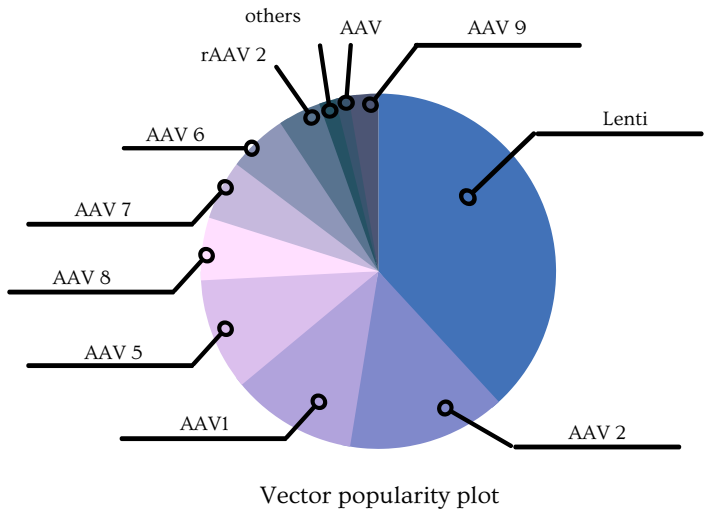
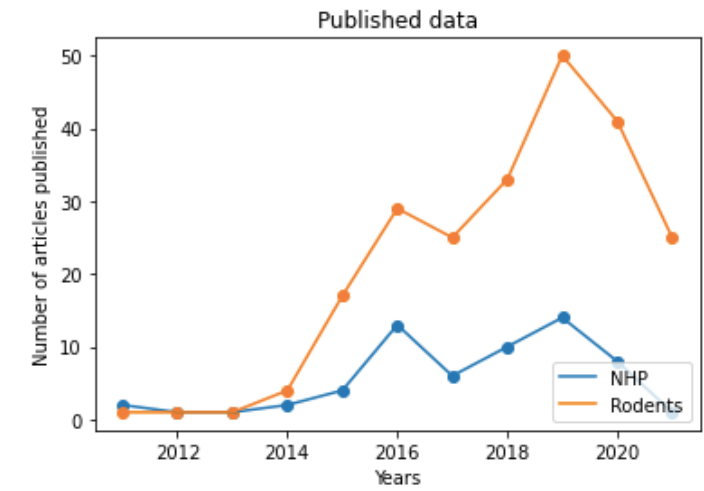
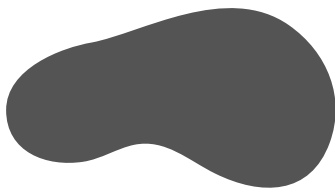


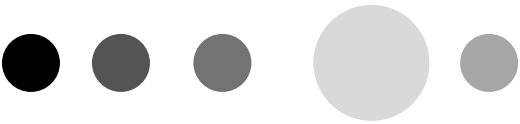
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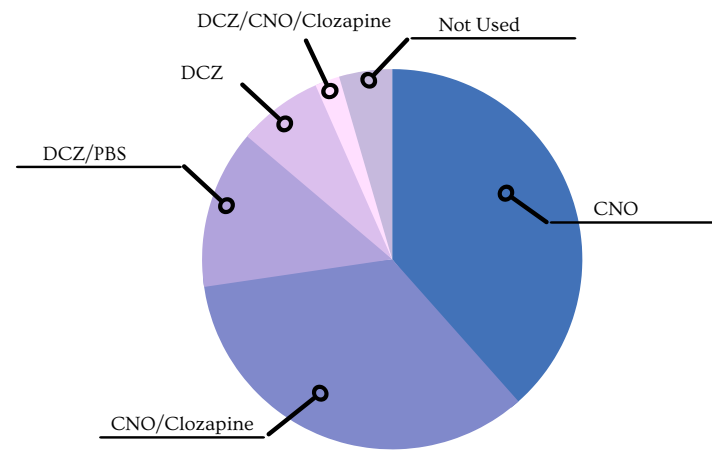
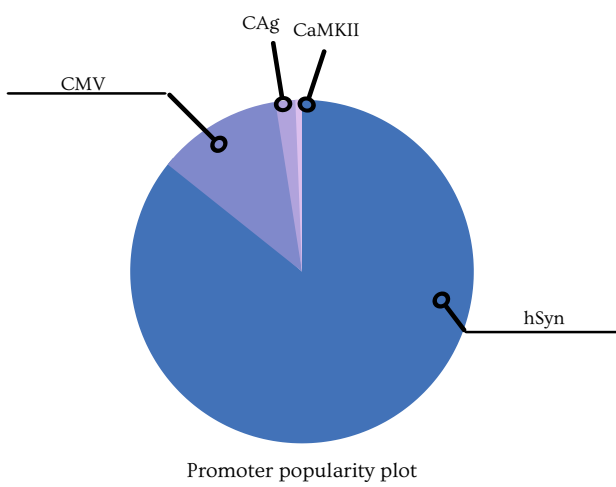
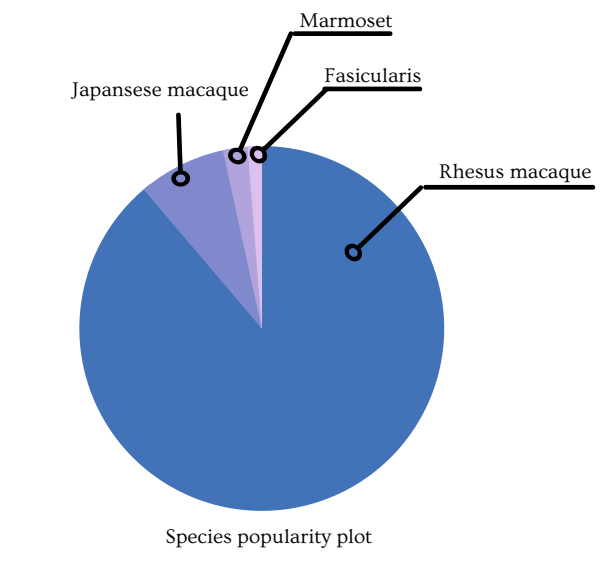
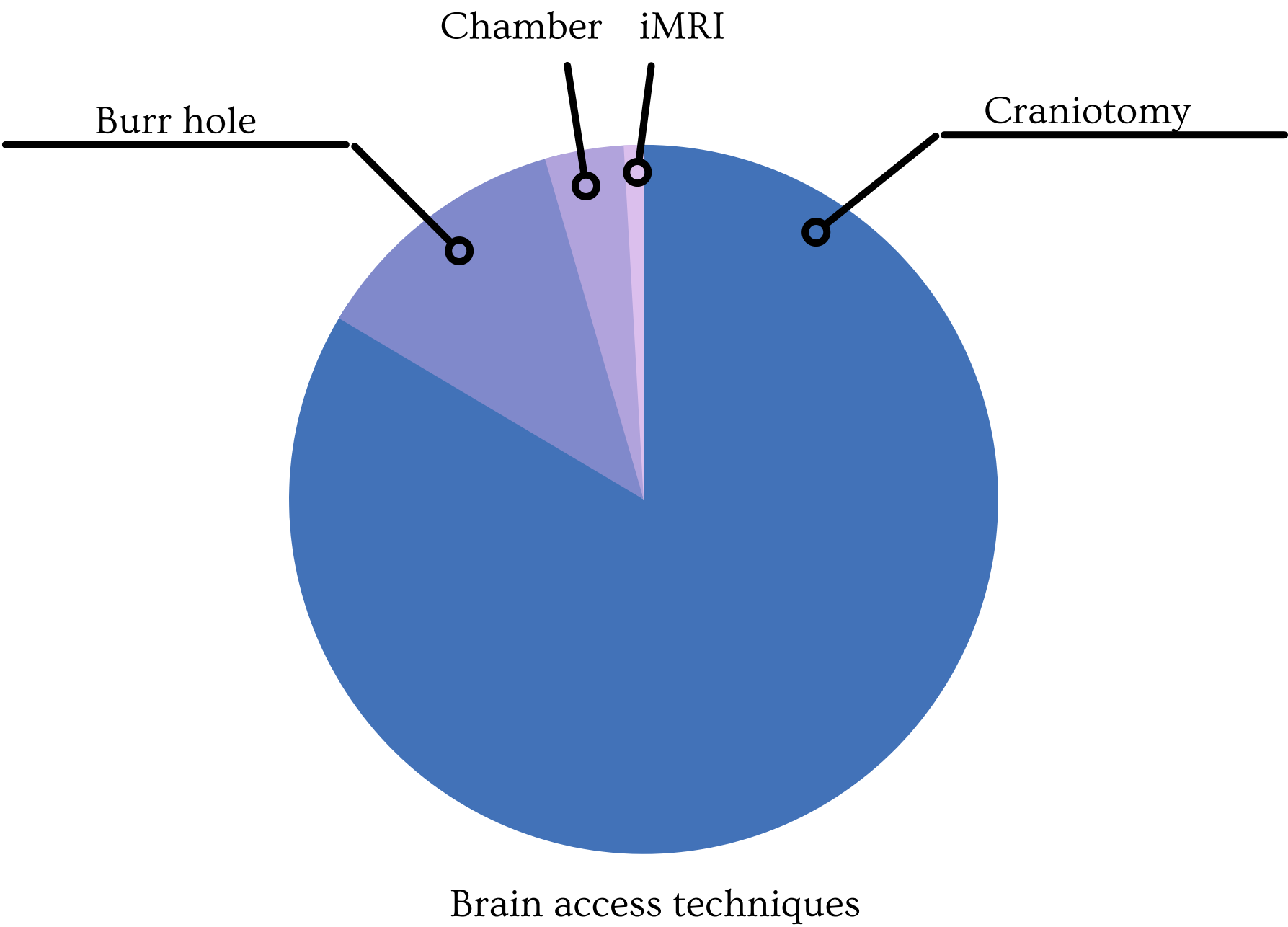
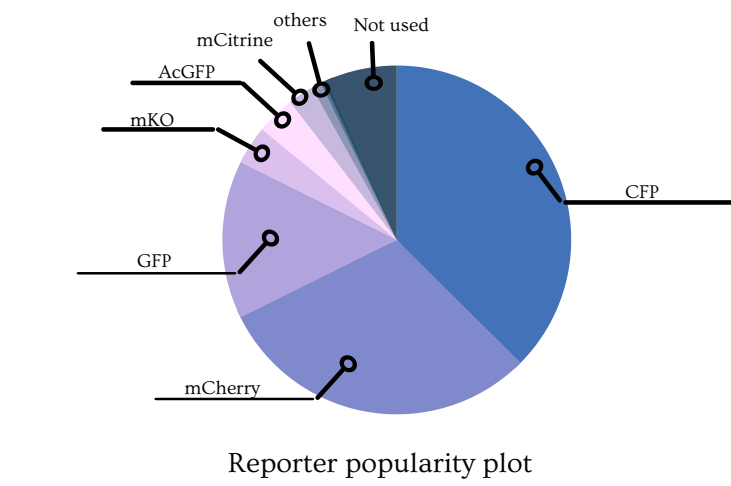
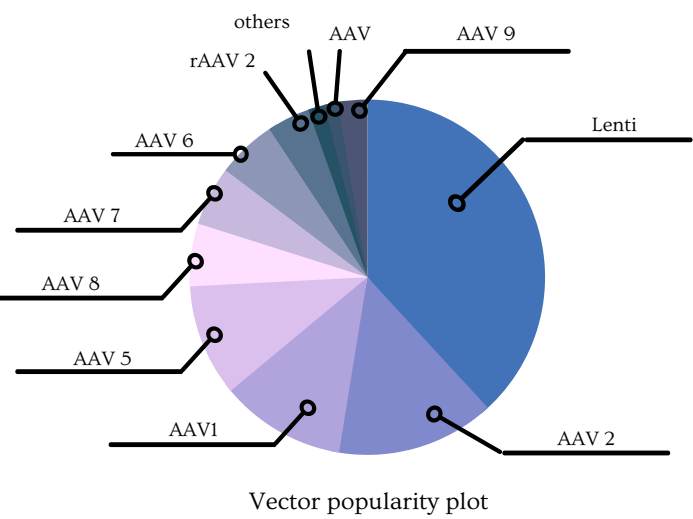
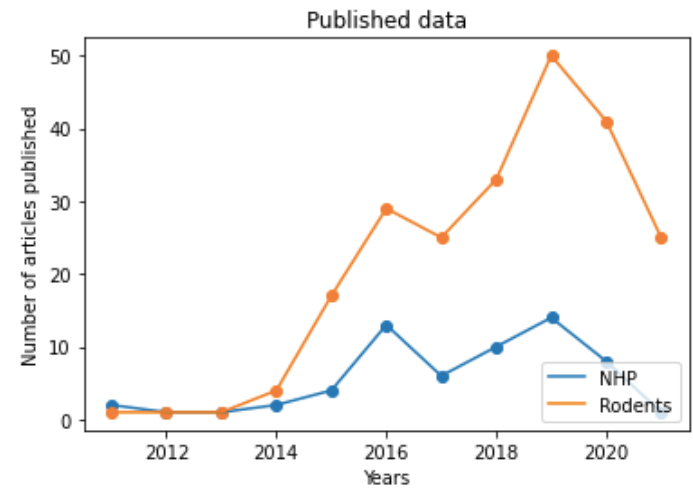
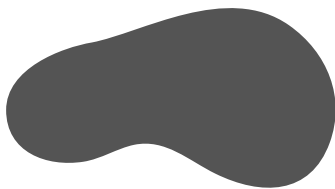


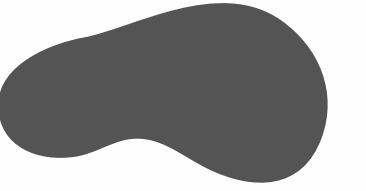
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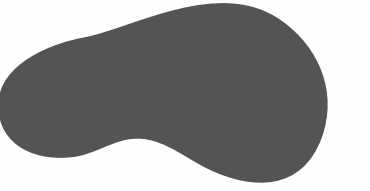
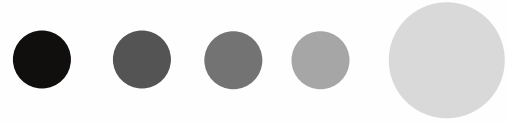
Results





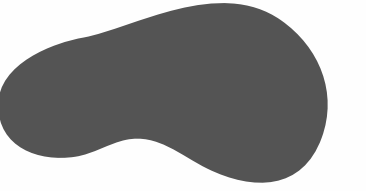
Summary

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



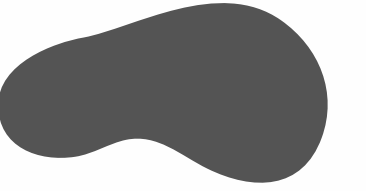
Summary

- 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



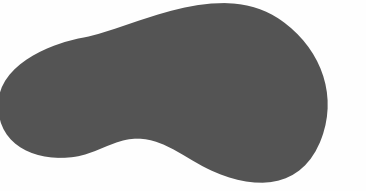
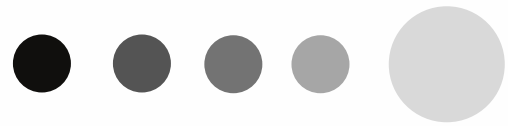
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- To assist future experiments we have come up with an open resource consisting of all DREADD related experiments.



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
- 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.