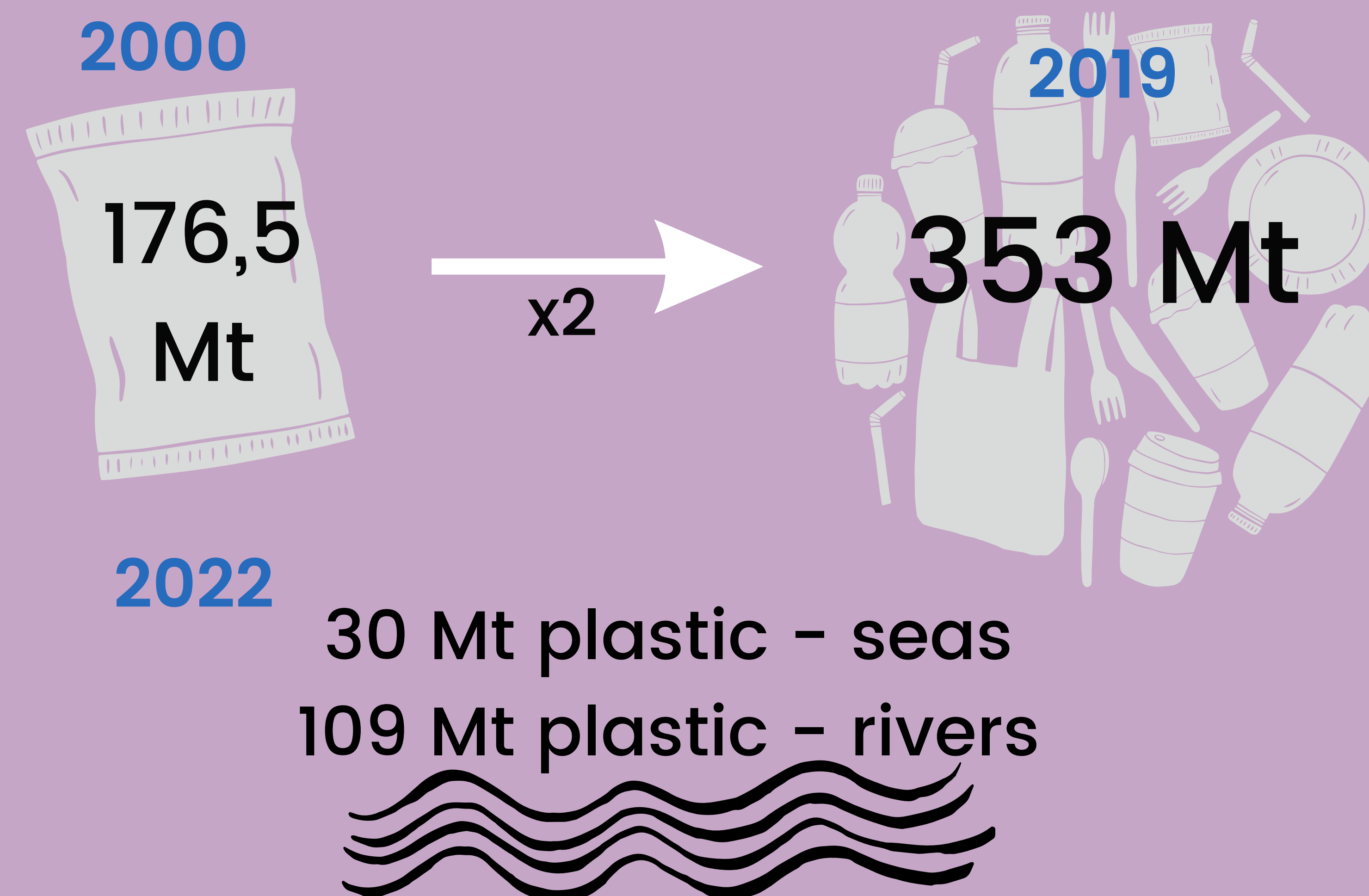


PLASTIC BIOREMEDIATION

Yulia Suslova Suslova
Final degree project
June 2023

INTRODUCTION



OBJECTIVES

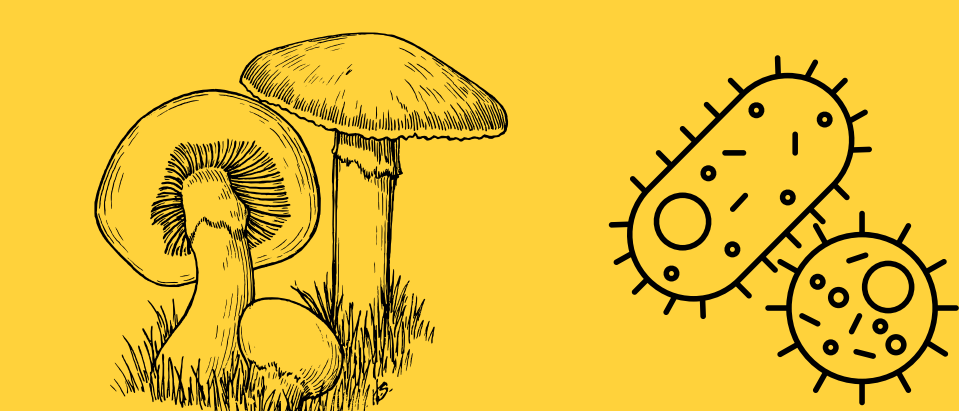
Summarize scientific re-
search on plastic
bioremediation from 2014
to 2022 using bacteria
and/or fungi.



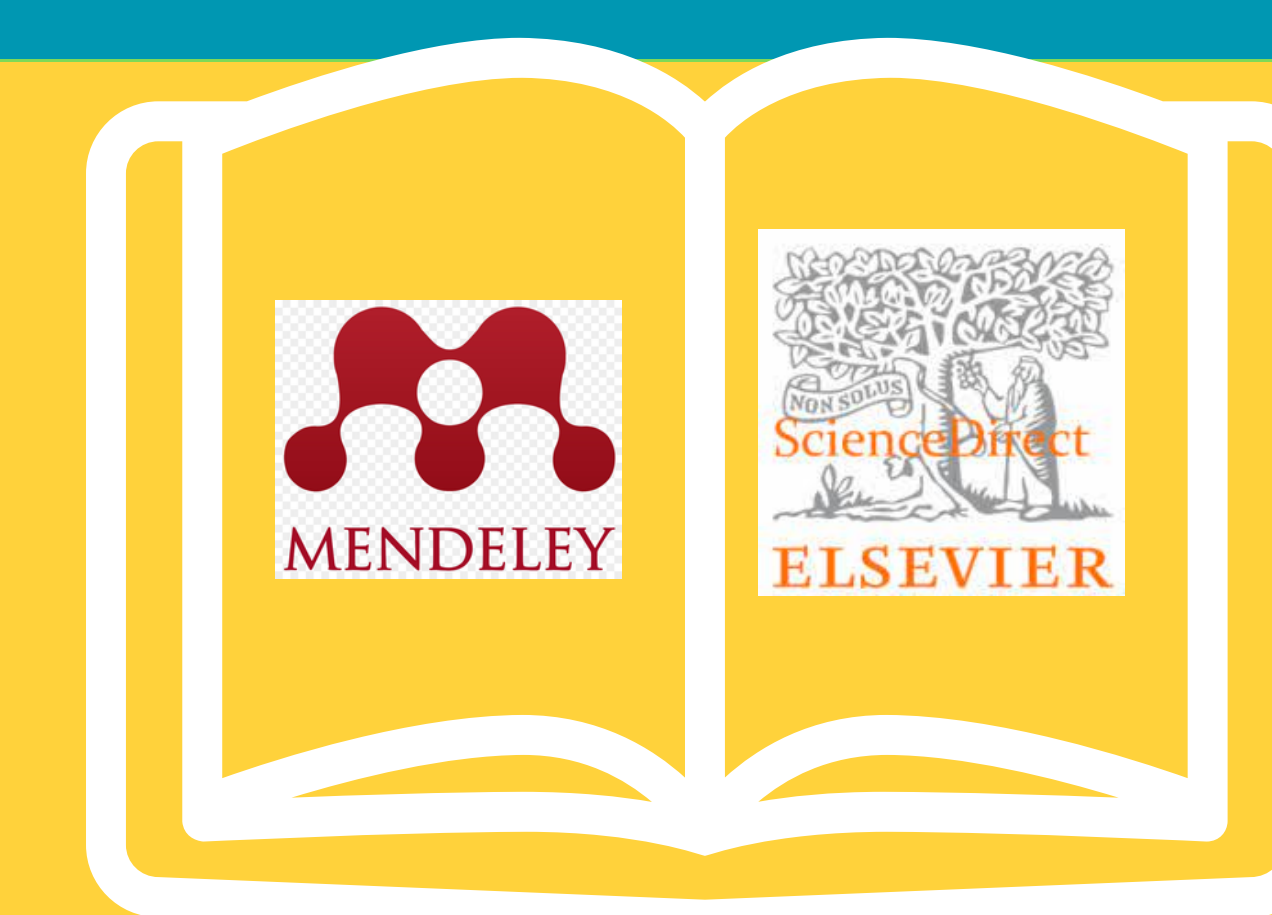
RESEARCH



BIOREMEDIATION



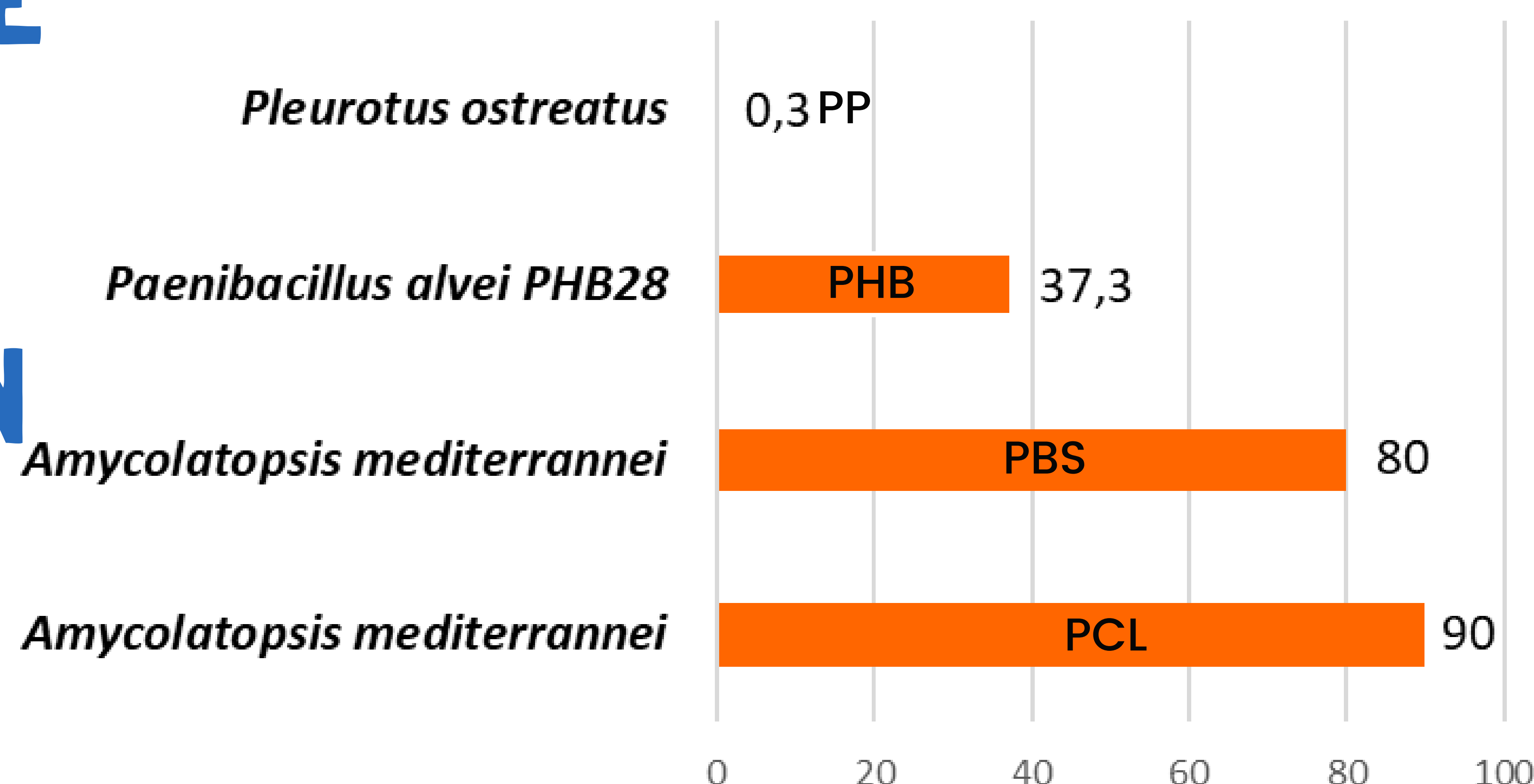
CO₂ + H₂O + inorganic compounds
+ cellular proteins



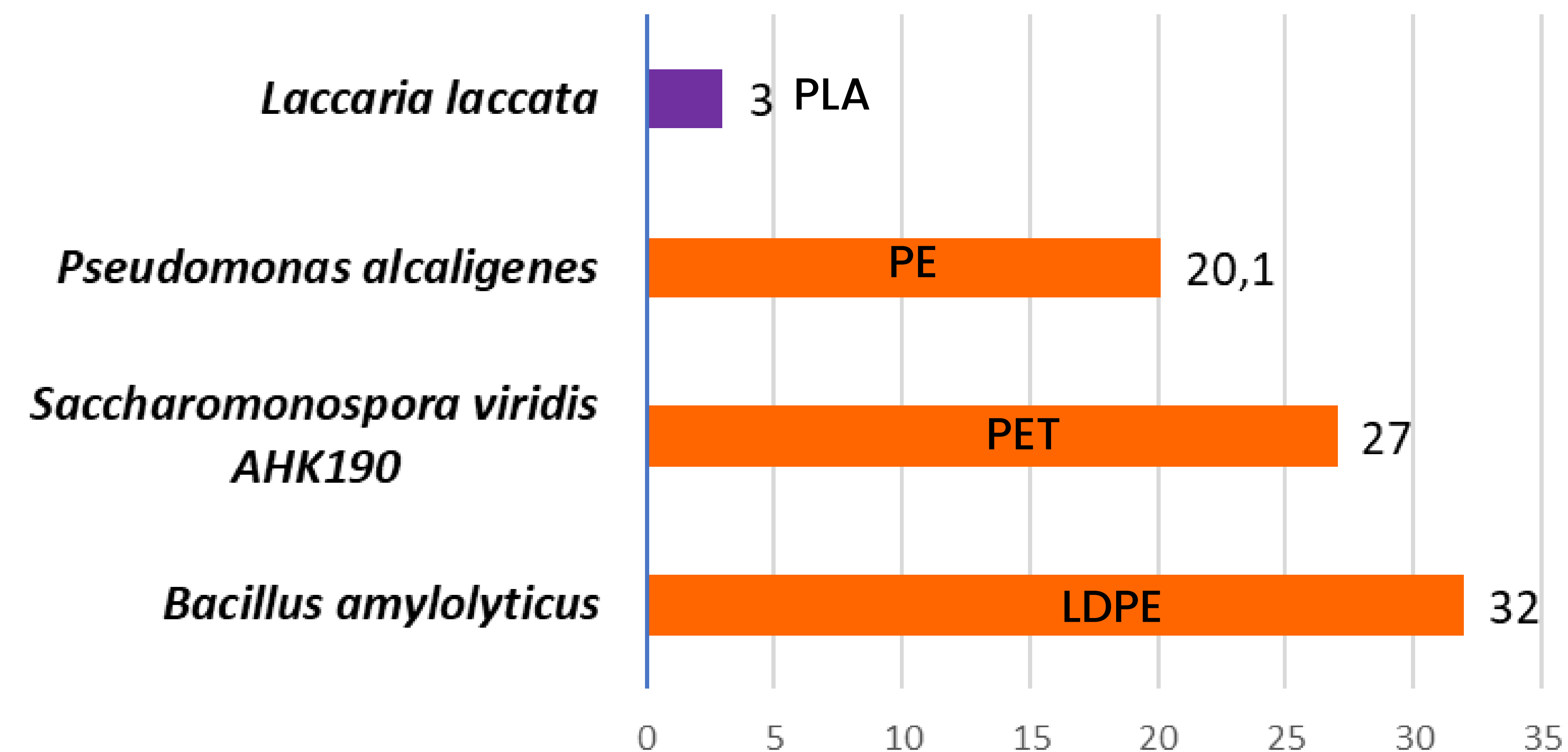
MOST EFFECTIVE ORGANISMS FOR PLASTIC BIOREMEDIATION

● Bacteria
● Fungus

% BIOPLASTIC REDUCTION



% PLASTIC REDUCTION



CONCLUSION

In the review of the 12 articles, it can be affirmed that:

1. Bioplastics have a higher degradability than synthetic plastics
2. Synthetic plastics have a longer incubation and lower percentages of reduction than bioplastics
3. Bacteria are more effective than fungus in plastic bioremediation