

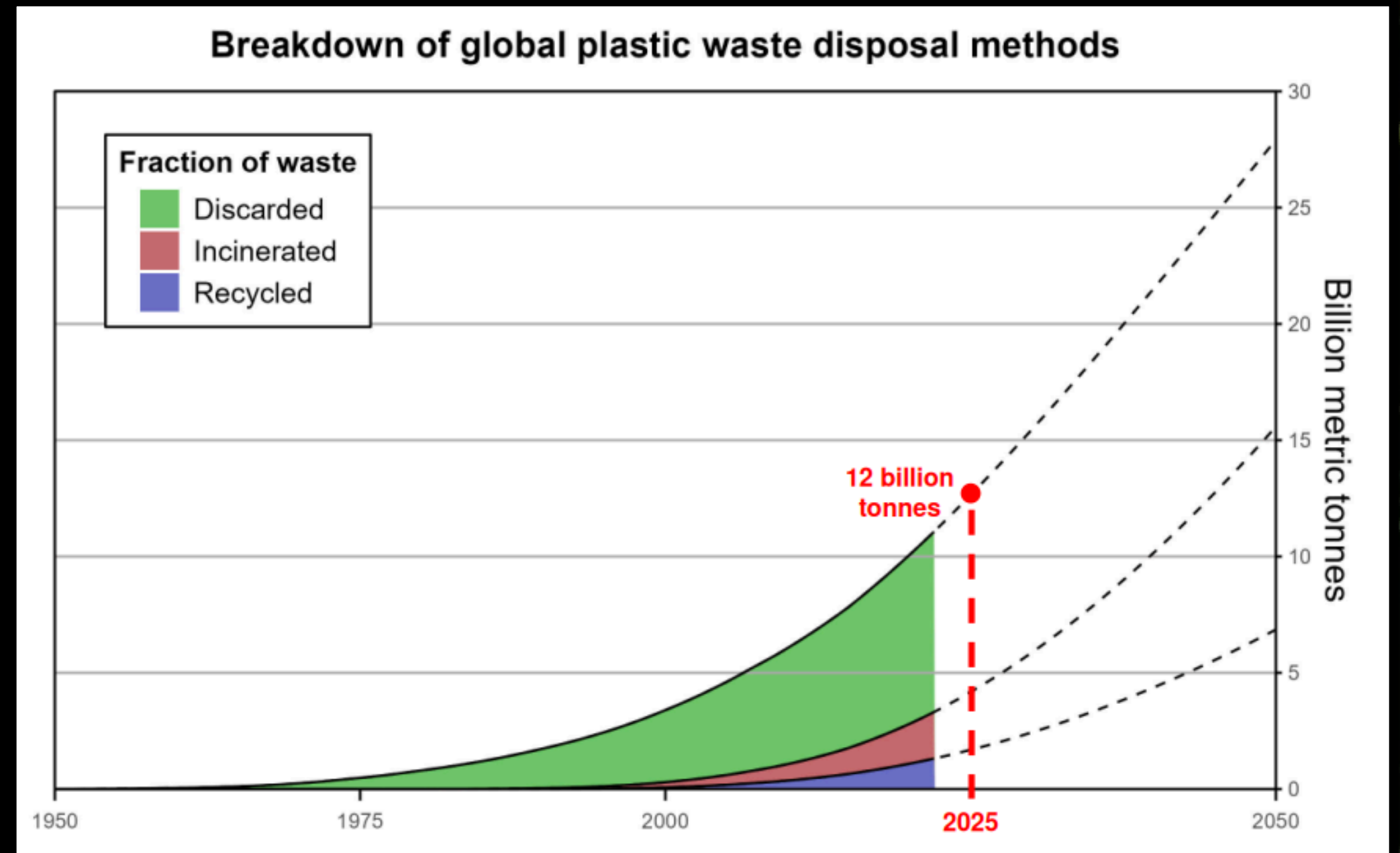
PetaScale

PET-MICROPLASTIC
DEGRADATION **AT SCALE**

Plastics are
everywhere.

***400 Million
Tonnes***

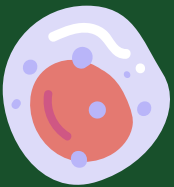
Each year.



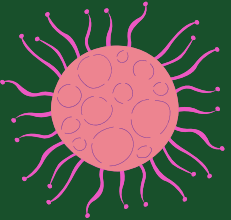
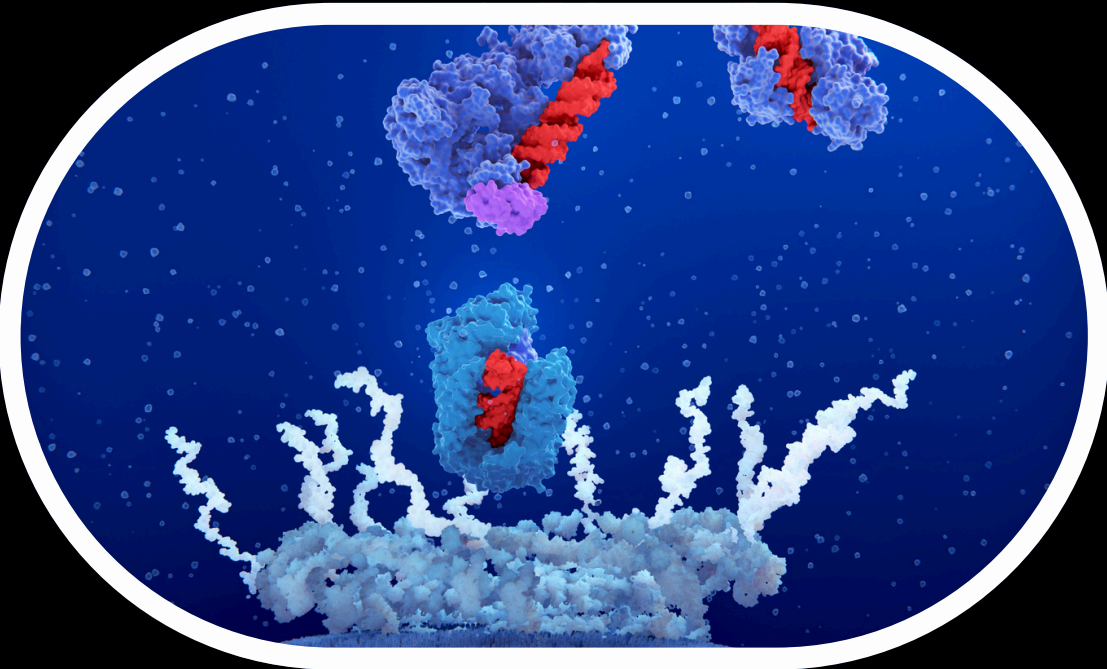
Microplastics

Damage

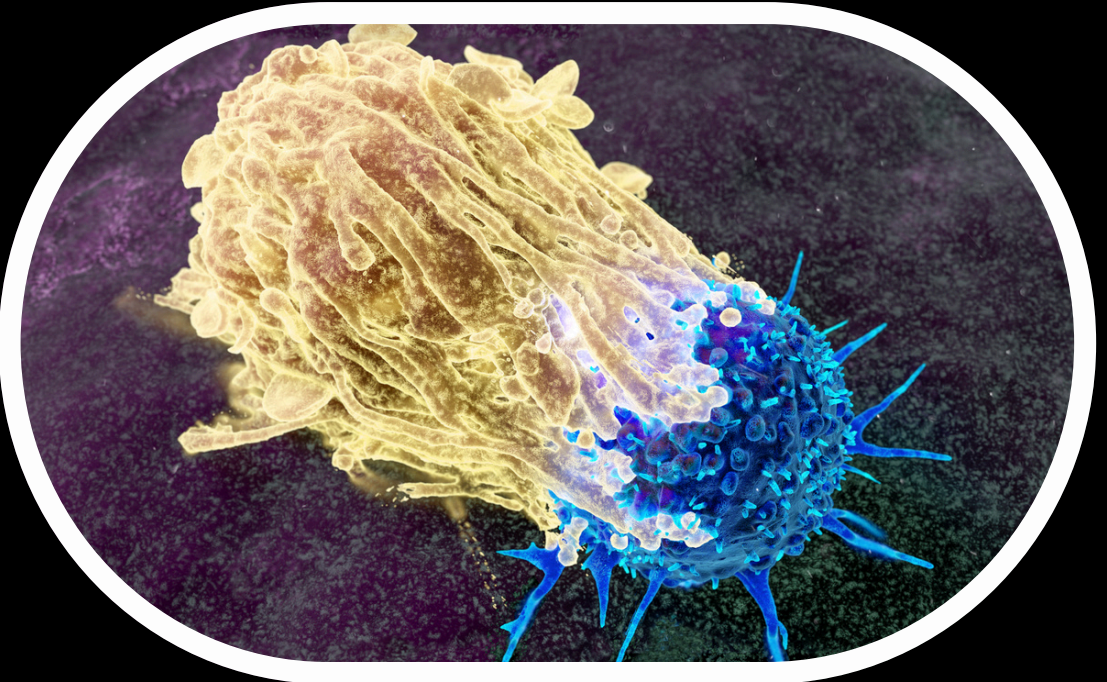
Human Health

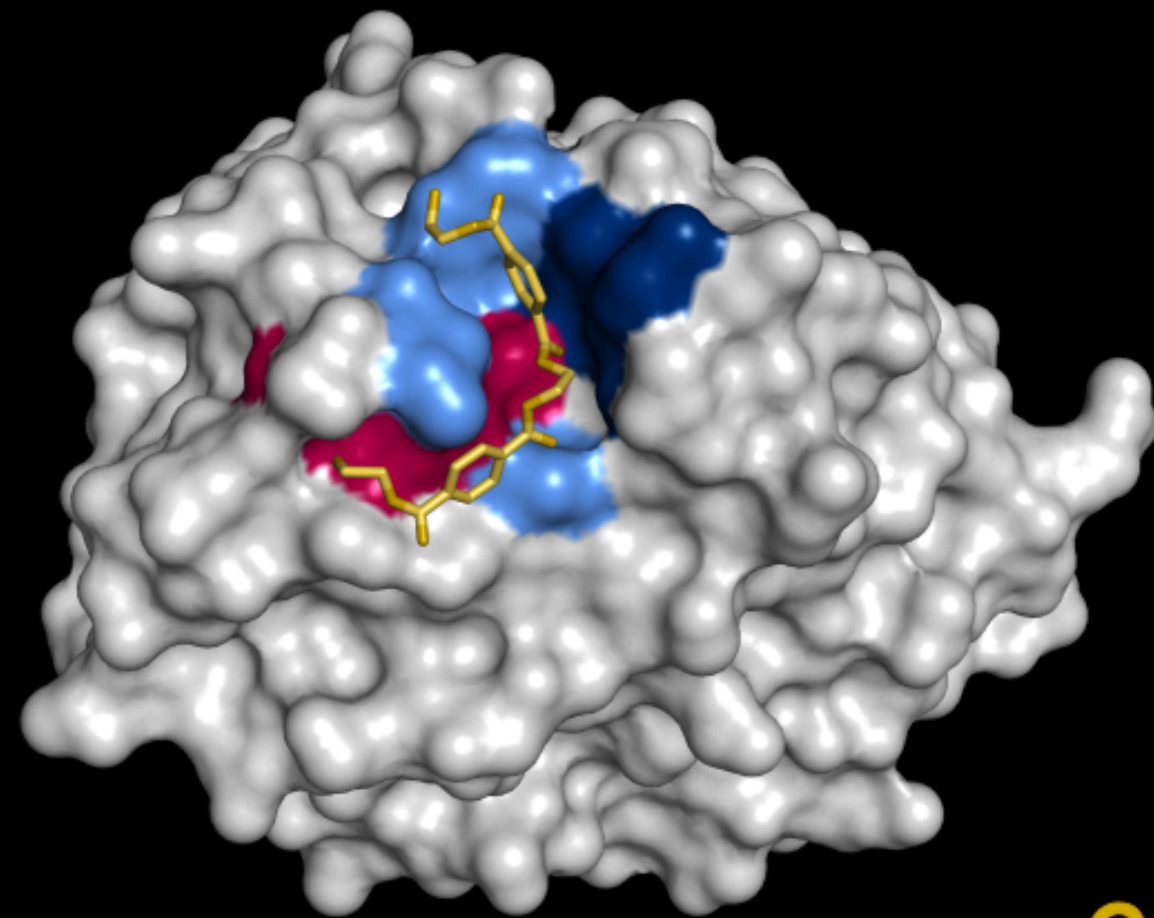


Cell Damage



Cancer





PETase 3D Model

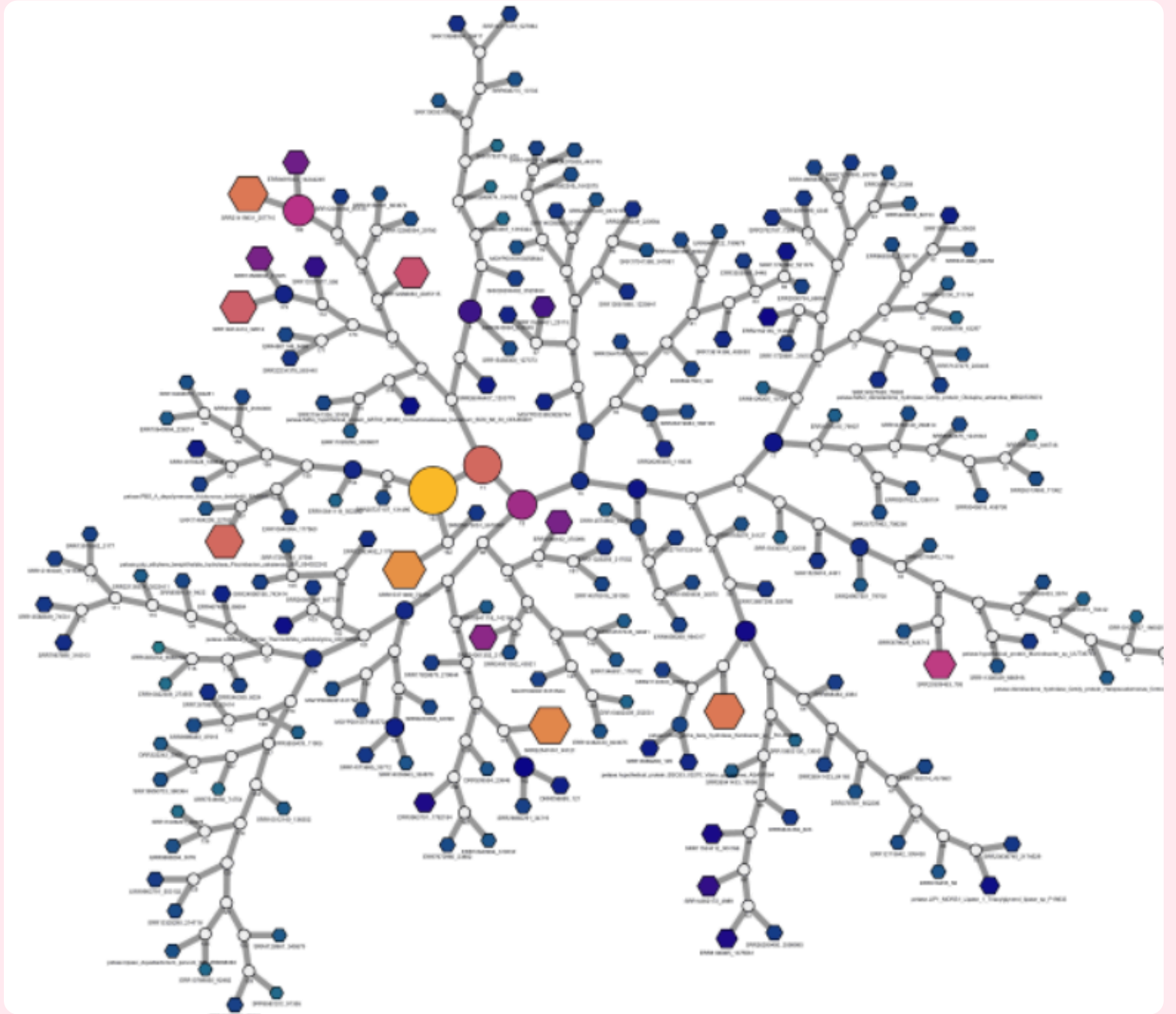
PETases: Plastic Degrading Enzymes

Currently, industry PETases are **unable to scale beyond** lab conditions.

(ex: they work at only very specific temps or pH)

LOGAN Index

***A planetary sequence
search that discovers novel
PETases***



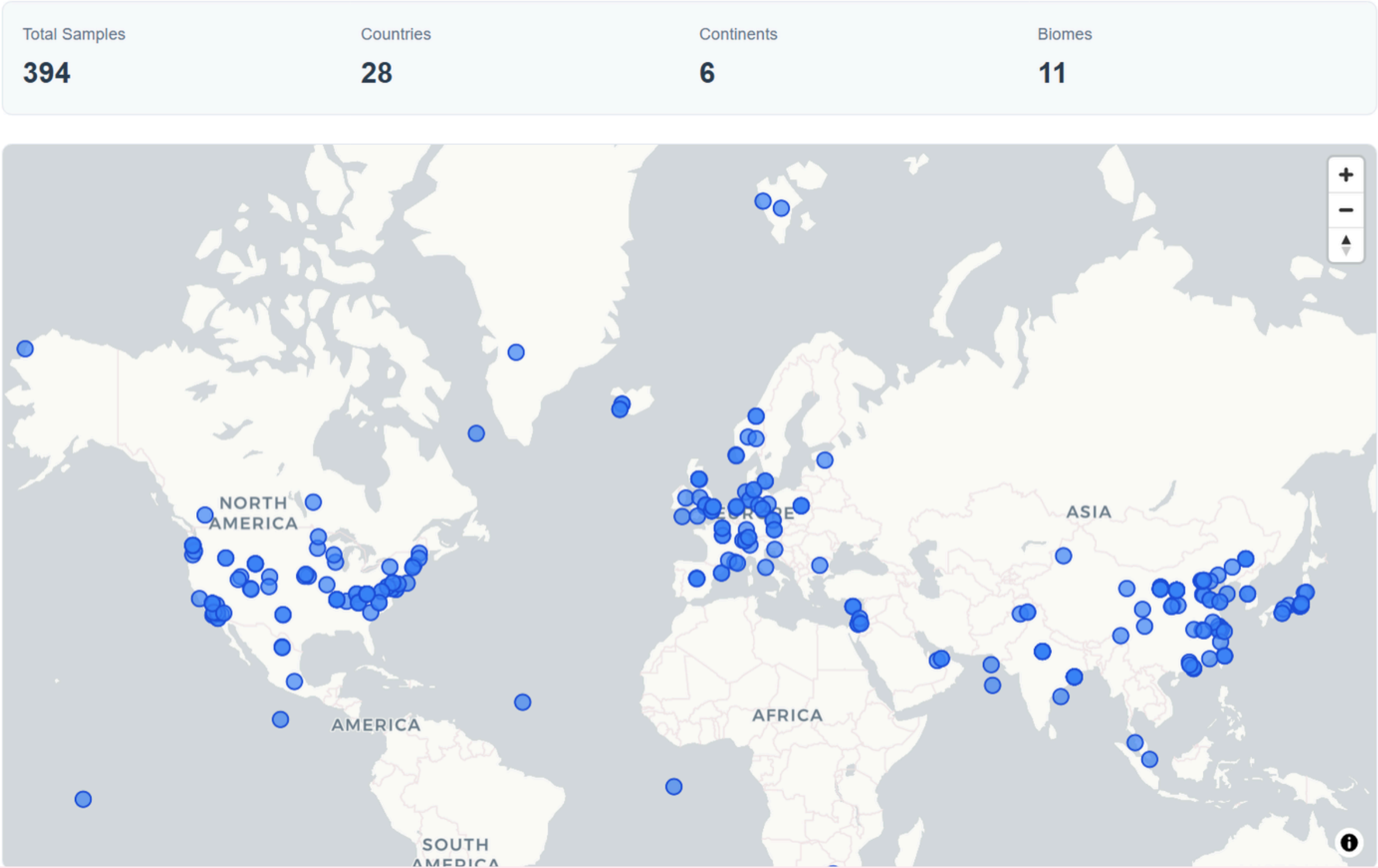
Phylogenetic tree of the **plastic
degrading enzyme** candidates

*Without LOGAN:
2,000 enzymes**

*WITH
LOGAN:
215.7
MILLION
ENZYMES*

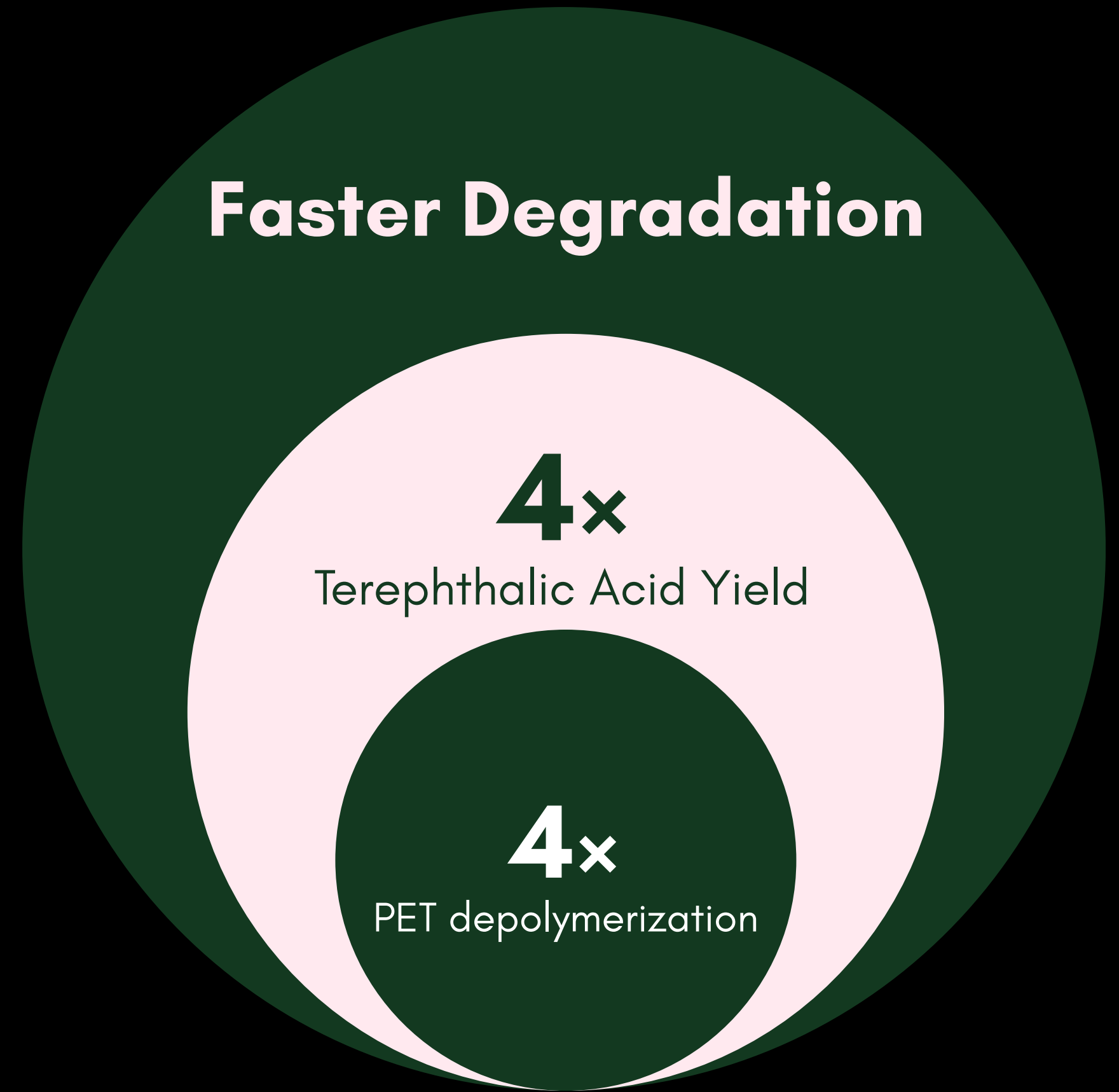
Sample Metadata

Geographic distribution of plastic-degrading enzyme discovery sites

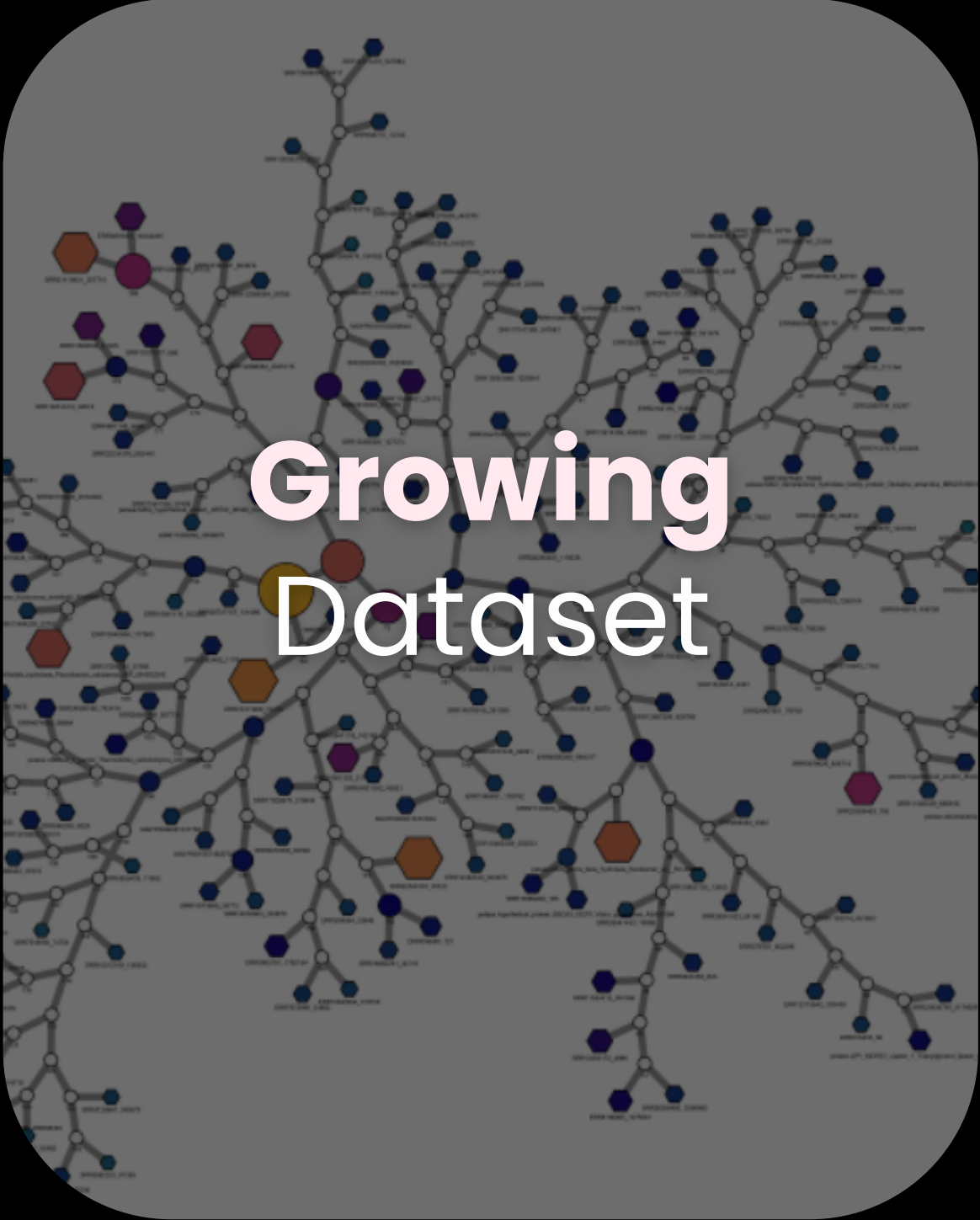


**Science, 2025*

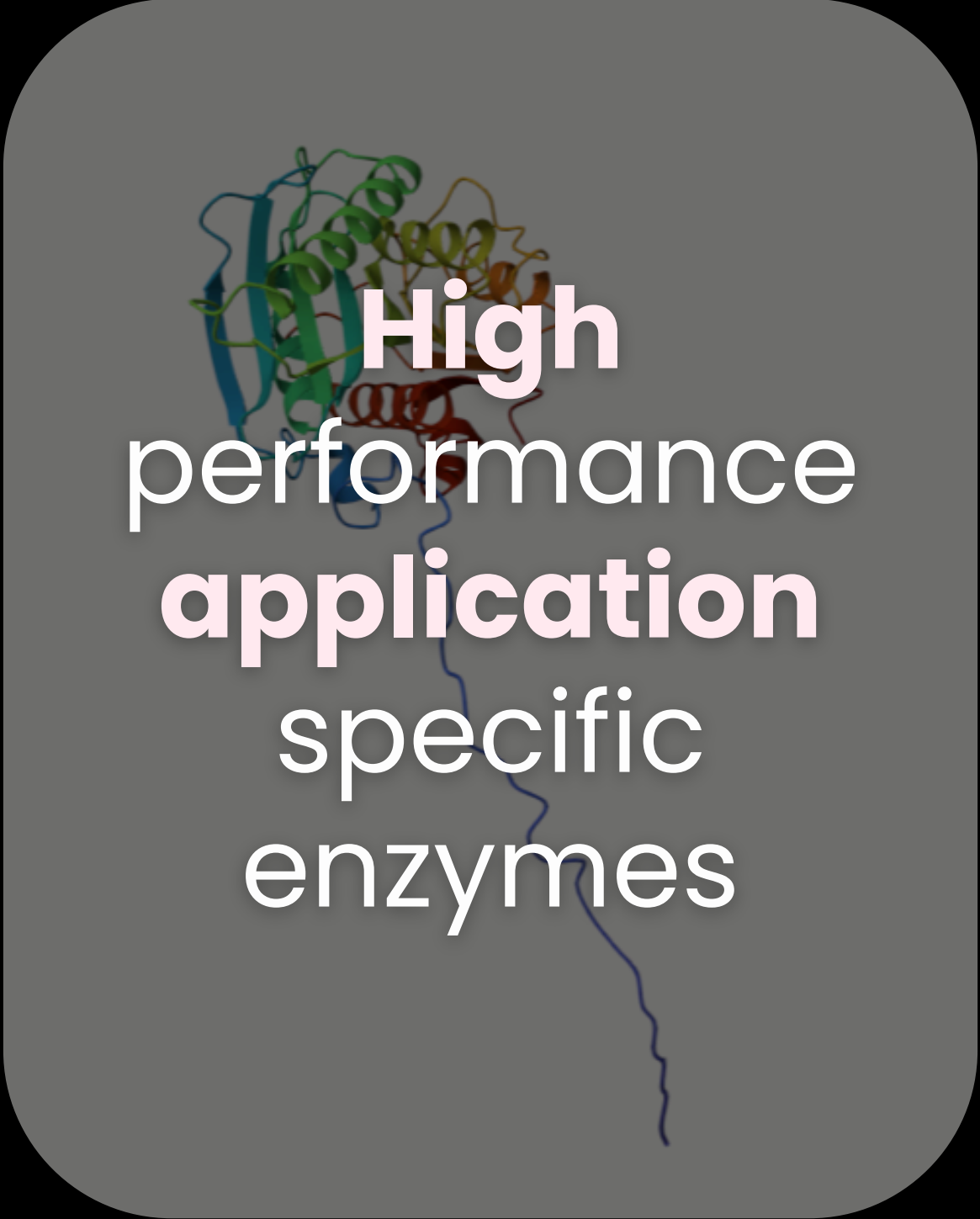
**Our discovered
PETases
OUTPERFORM
FAST-PETase
(The Current Lab
Standard)**



B2B Enzyme Platform



**Growing
Dataset**



**High
performance
application
specific
enzymes**



**Full Stack
enzyme
provider**

Our Team/Resources

Advisors from:

**INSTITUT
PASTEUR**

**서울대학교**
SEOUL NATIONAL UNIVERSITY


VECTOR INSTITUTE

The Laboratory for
**RNA-Based
Lifeforms**
<https://RNAlab.ca> | @RNA_Life





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Donnelly Centre
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Institute of Biomedical Engineering
UNIVERSITY OF TORONTO



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING



***AI-powered, PET microplastic
degradation to scale to industry.***