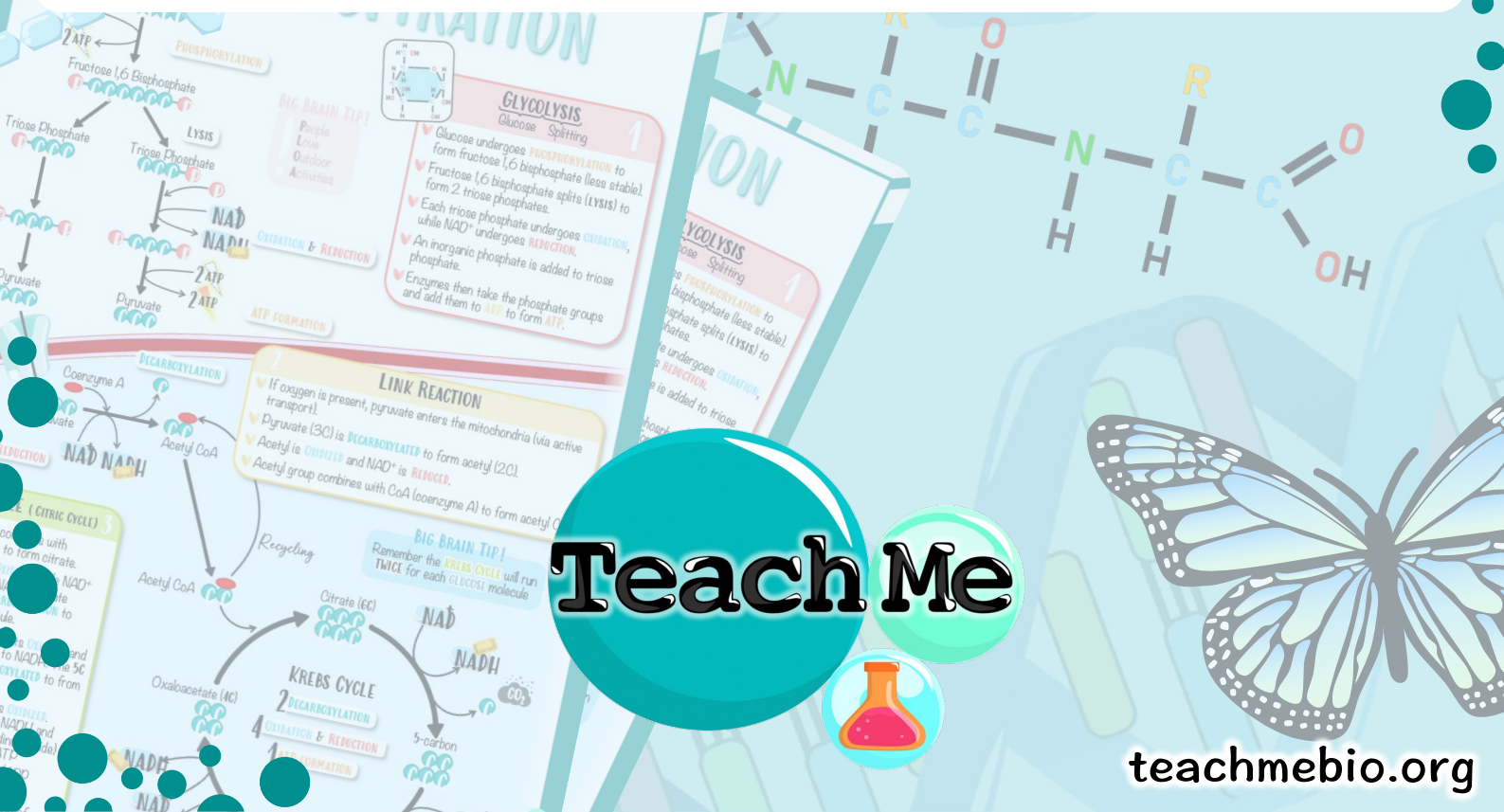


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STUDY NOTES

CHAPTER 1 - CELL STRUCTURE EUKARYOTIC CELLS



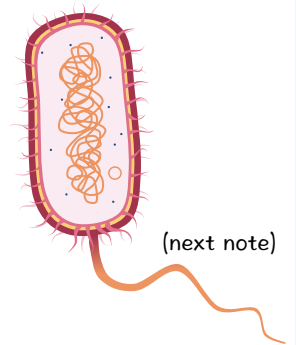
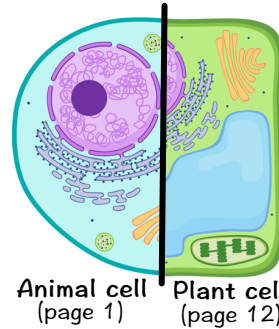
EUKARYOTIC CELLS

All living organisms can be categorized as **EUKARYOTIC** or **PROKARYOTIC**. As humans, we are made up of eukaryotic cells, and so are plants and other animals. Bacteria on the other hand are prokaryotes.

ALL LIVING ORGANISMS

EUKARYOTES

PROKARYOTES



EUKARYOTIC CELLS

"True" "Nucleus"

BIG BRAIN TIP!

Eu = You 🧠

Eukaryotic cells are found in: **Animals** + **Plants** + **Fungi** + **Protists**

A unique feature of eukaryotic cells is that they are **COMPARTMENTALIZED** meaning their functions are divided among membrane-bound organelles. Each **ORGANELLE** can perform its own specific function, making the cell more efficient and specialized.

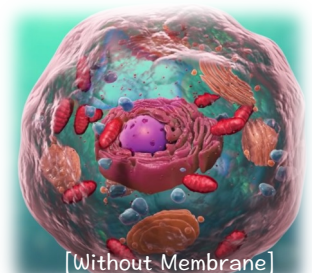
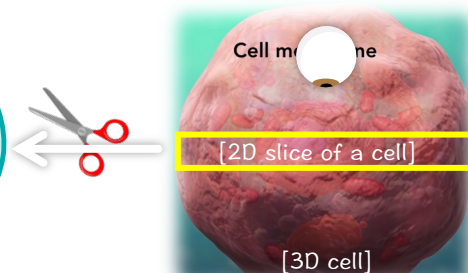
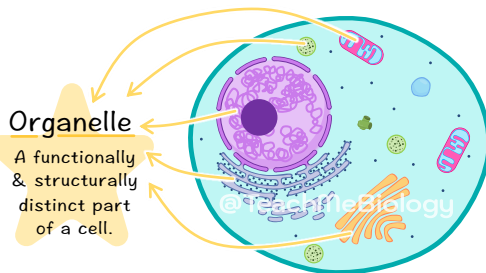
In the rest of this note, we outline the main role and structure of the major eukaryotic organelles for **ANIMAL CELLS** and **PLANT CELLS**.

It will surprise you to see how similar they are!



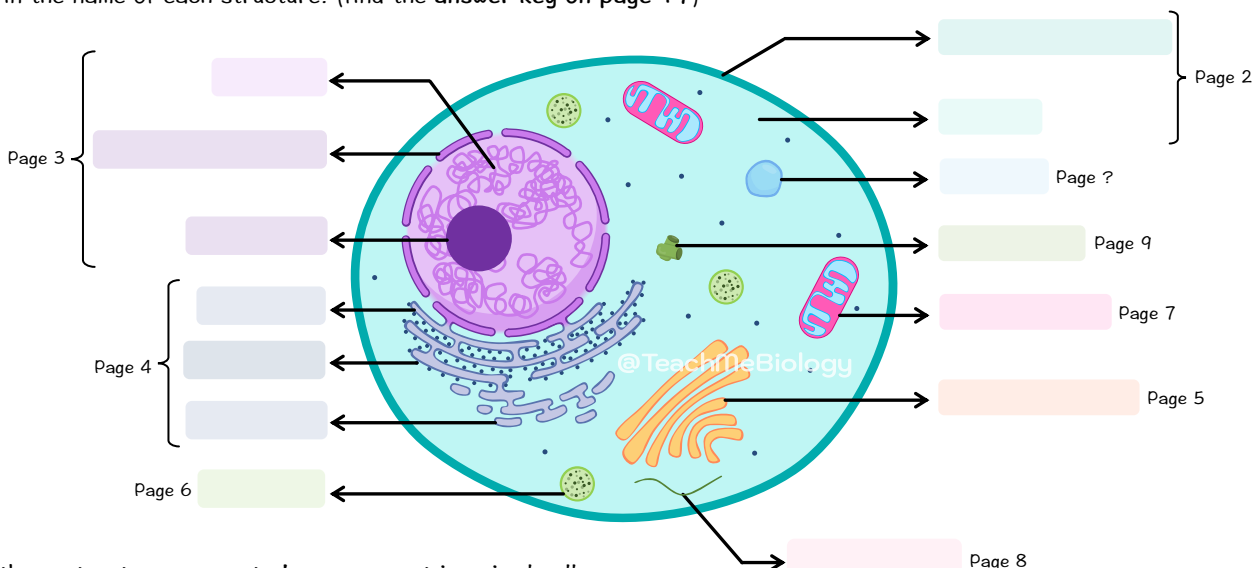
Learning more about eukaryotic cells may help us save ourselves! +

Compartmentalization - Organizing cell activities in separate compartments (organelles) to enhance efficiency.

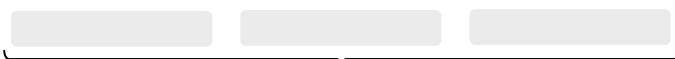


I. ANIMAL CELLS

All the structures you need to know about for animal cells is shown below on the diagram. It can feel overwhelming in the beginning, but over the next pages, we will go through each of the structures one-by-one – then come back to this page and test yourself by filling-in the name of each structure! (find the answer key on page 17)



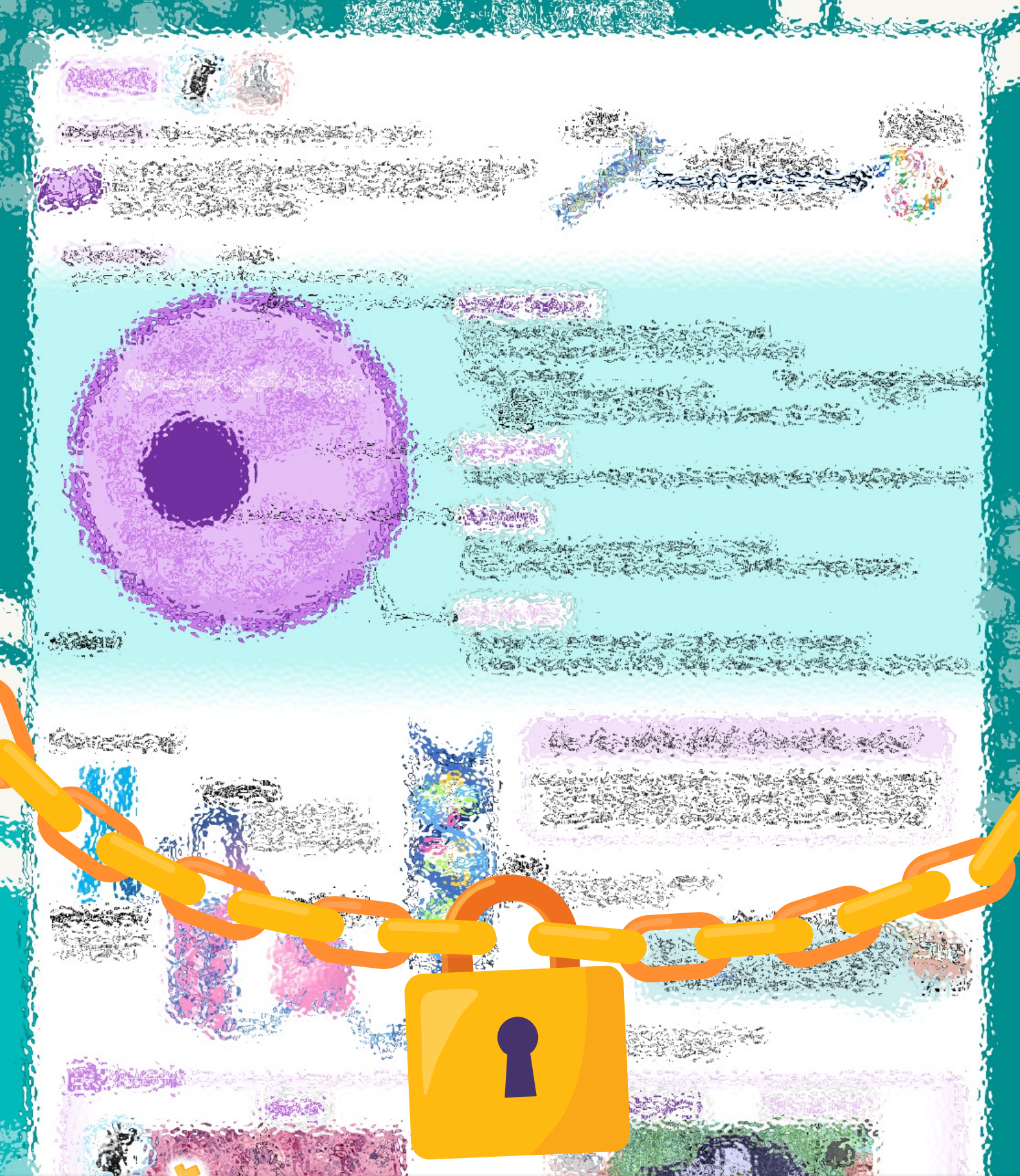
These three structures are not always present in animal cells:



Pages 10 & 11



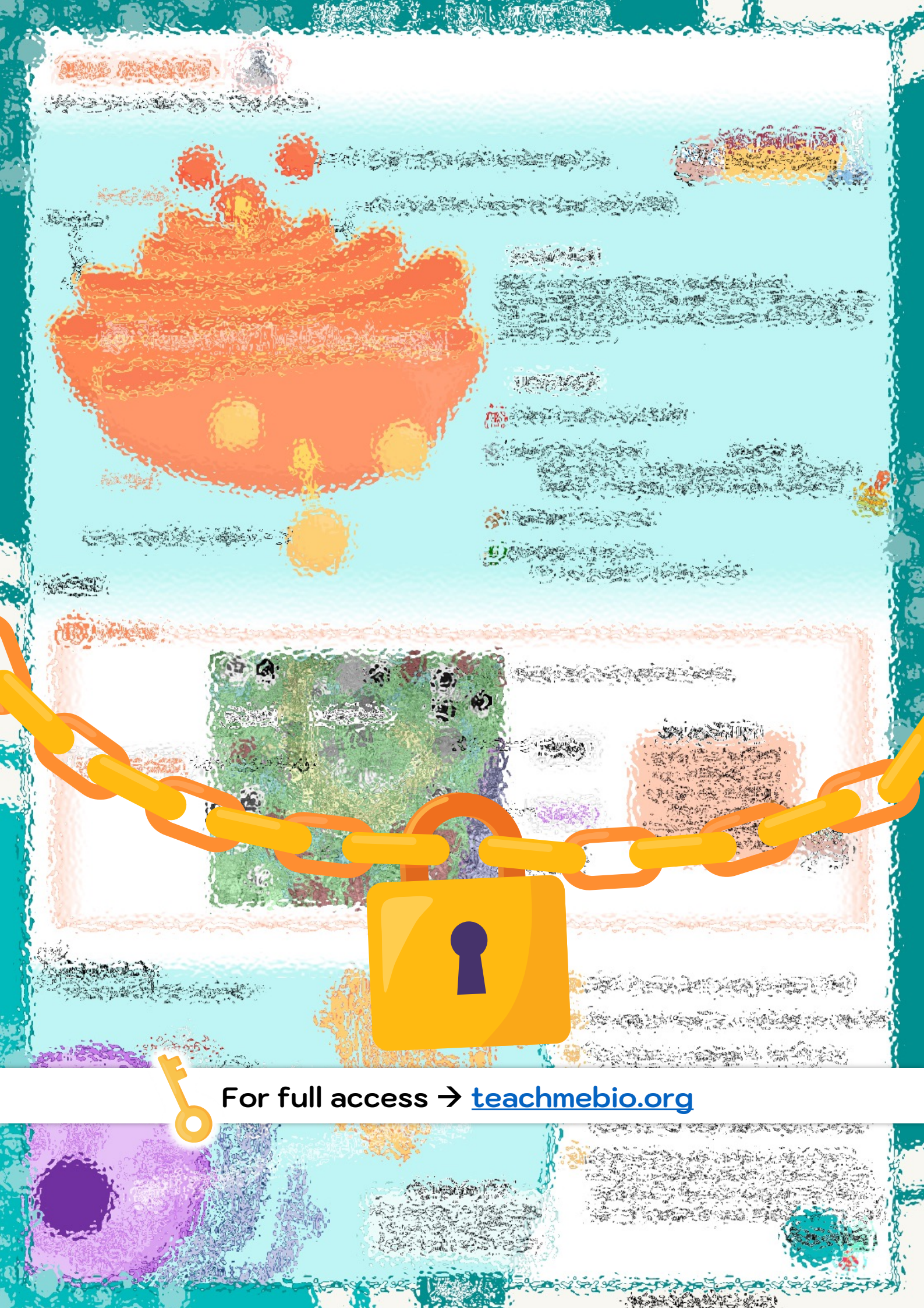
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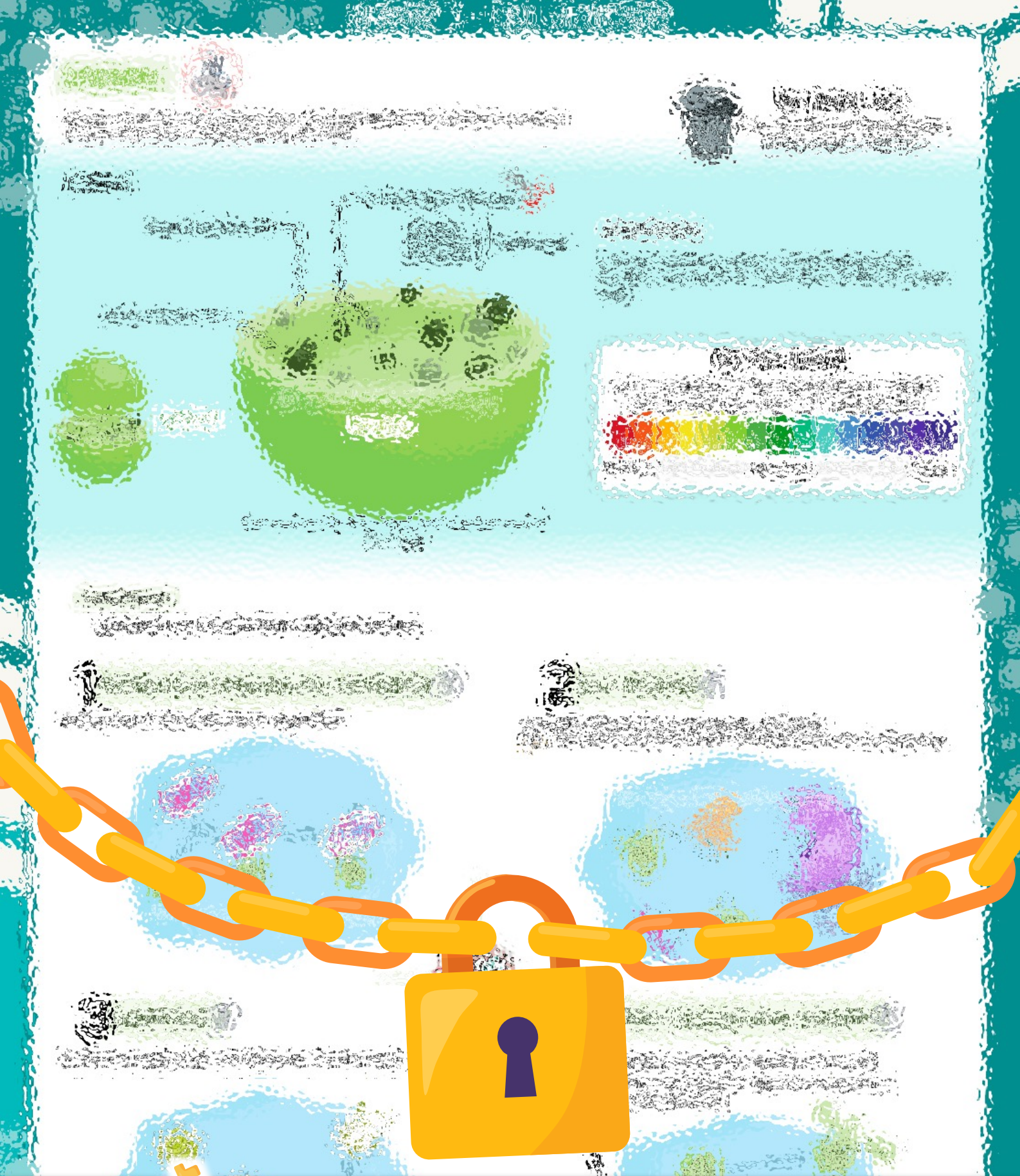
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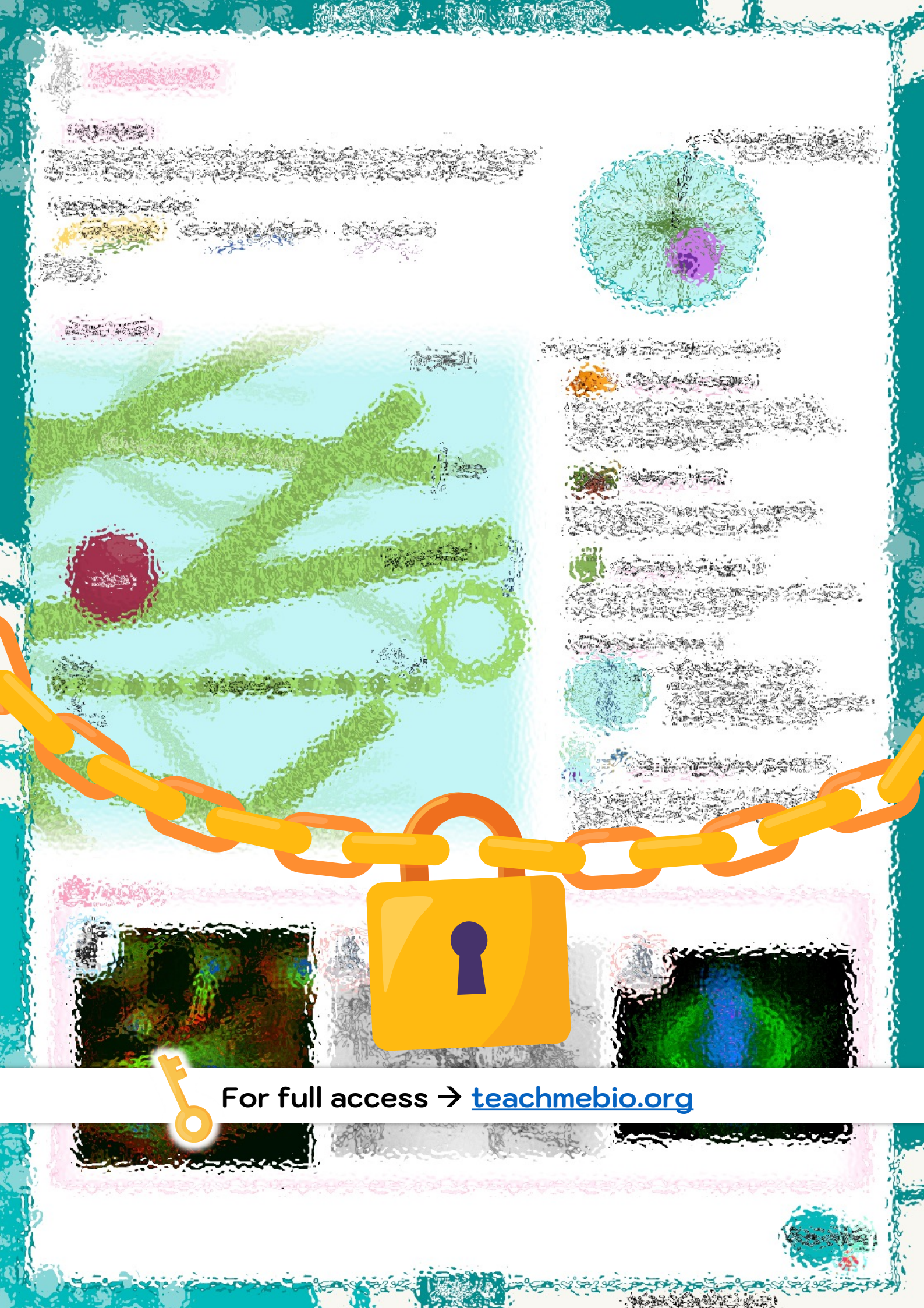
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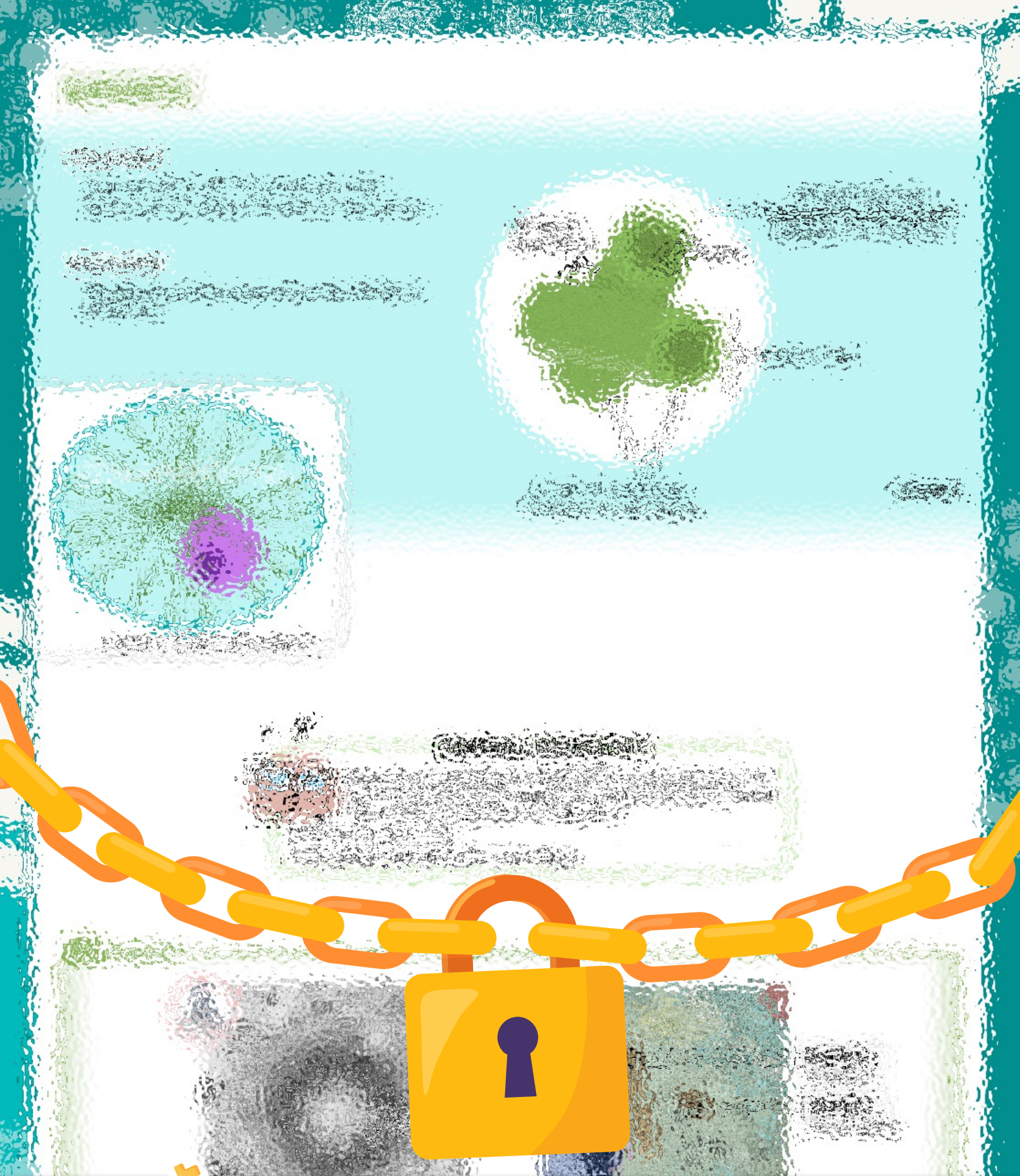
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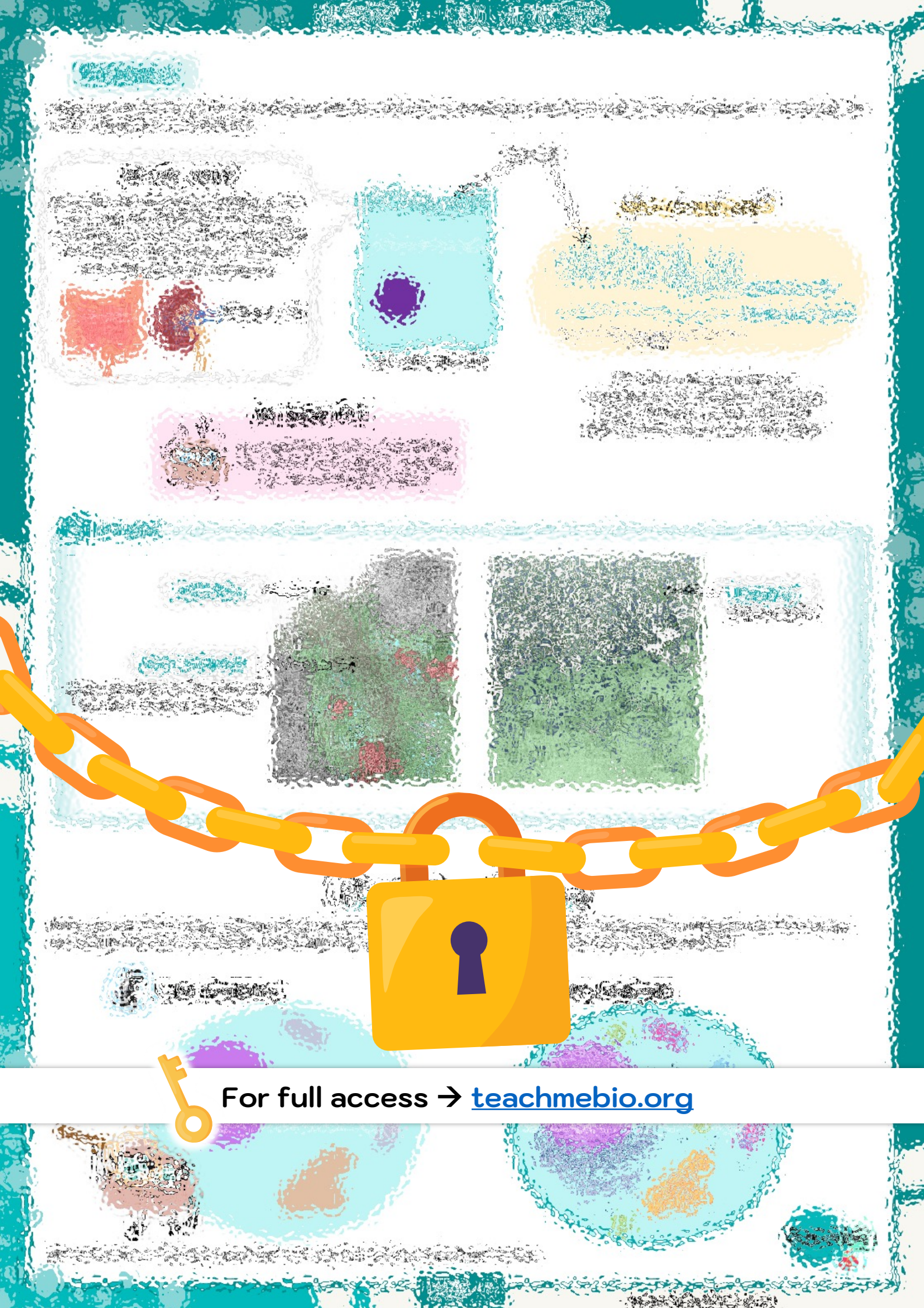
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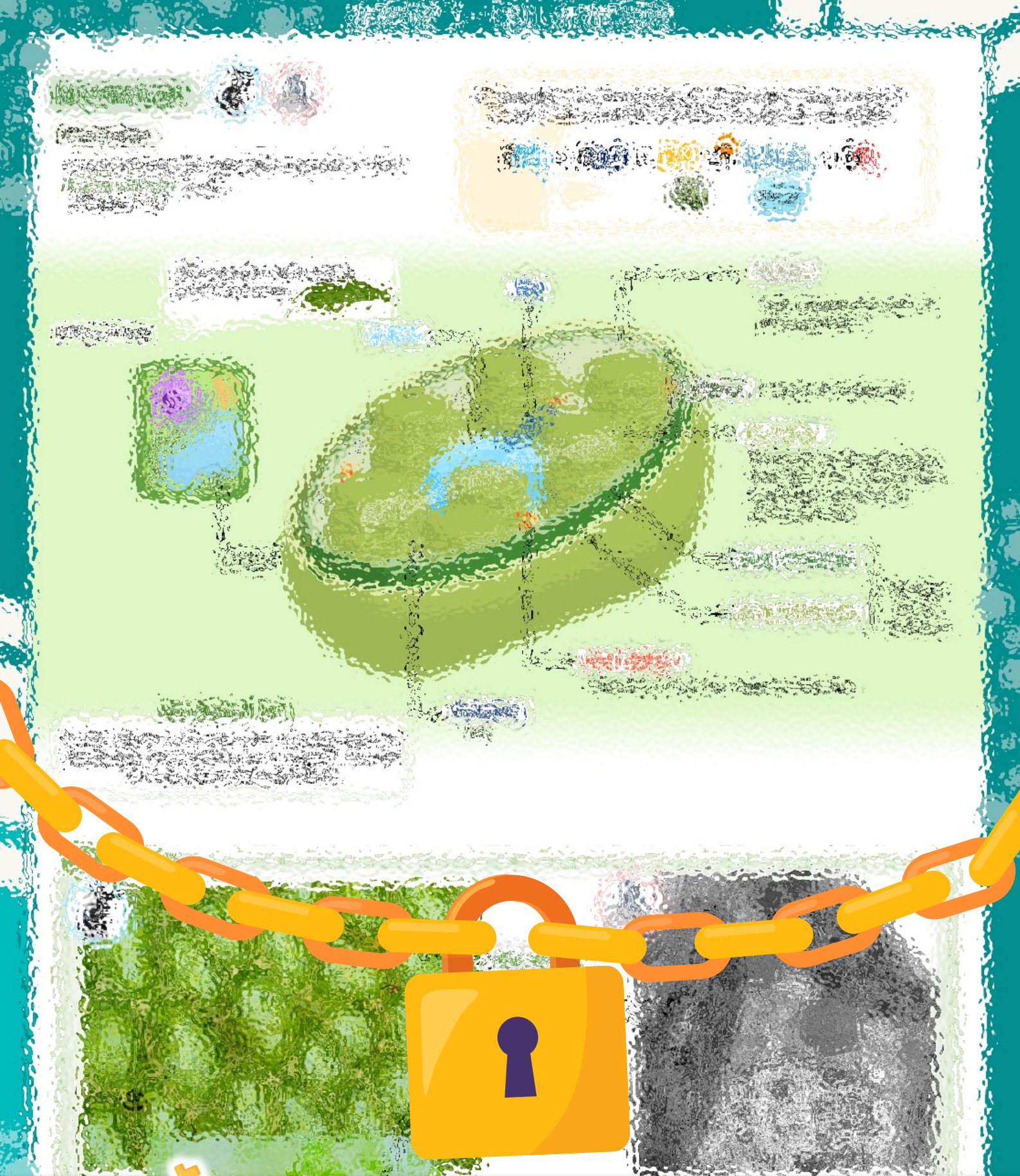
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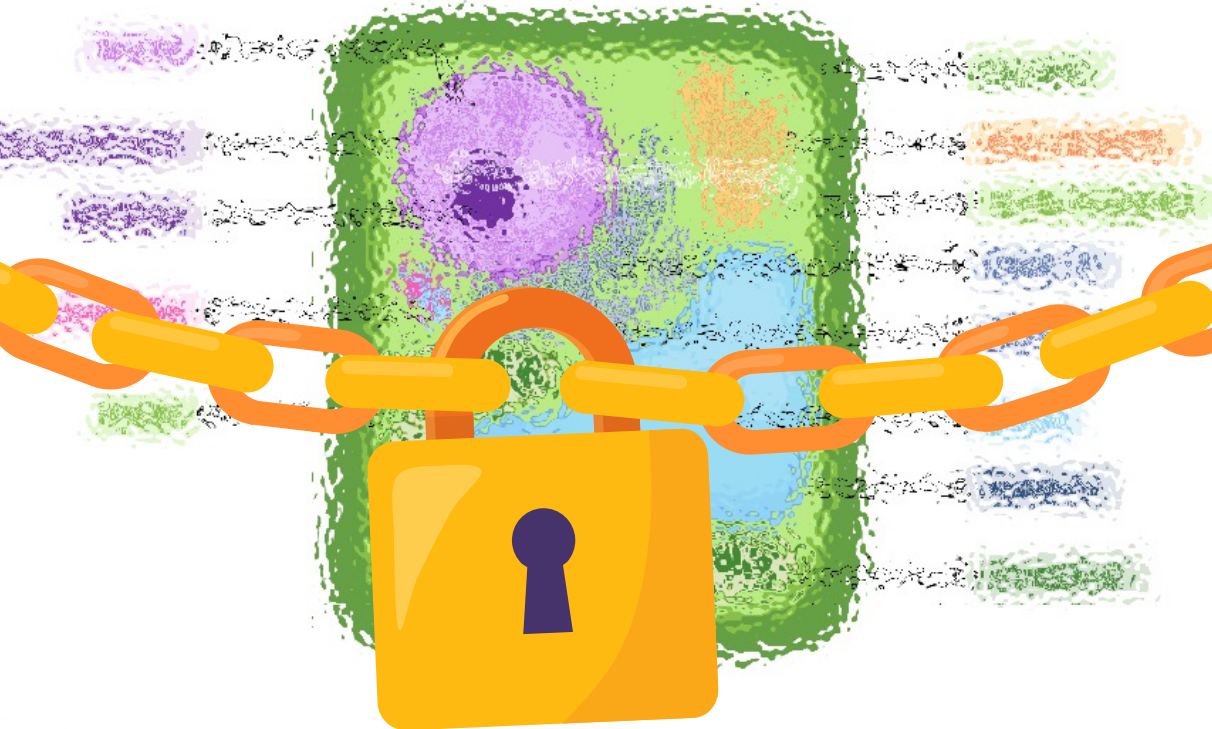
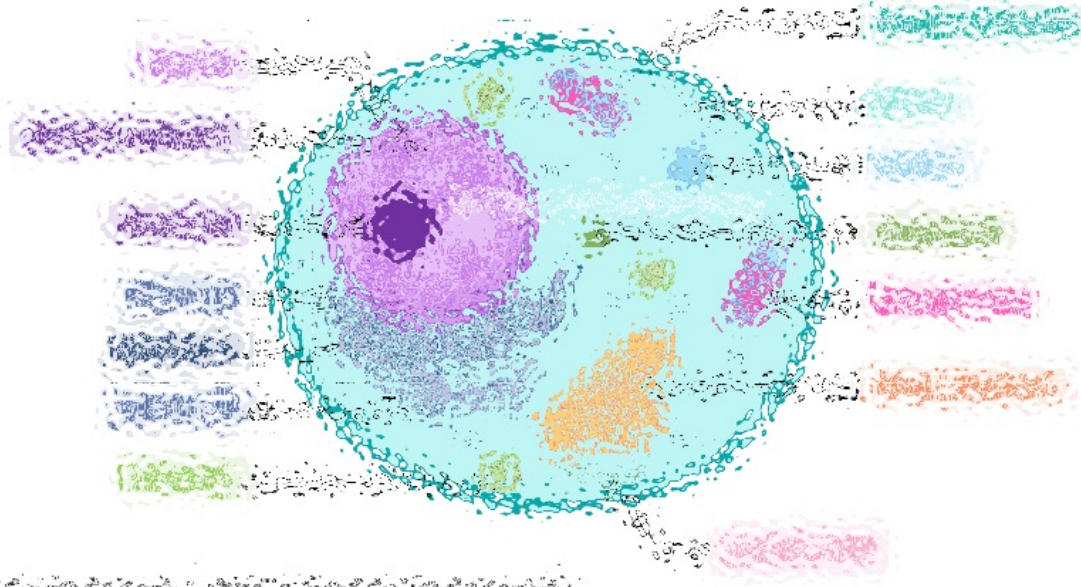
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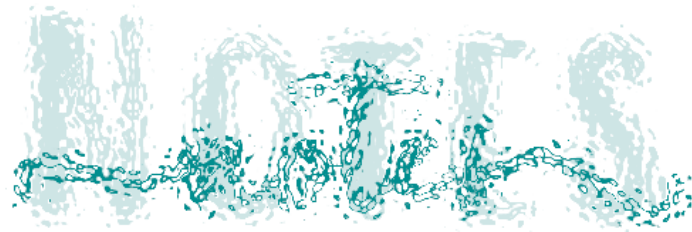
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