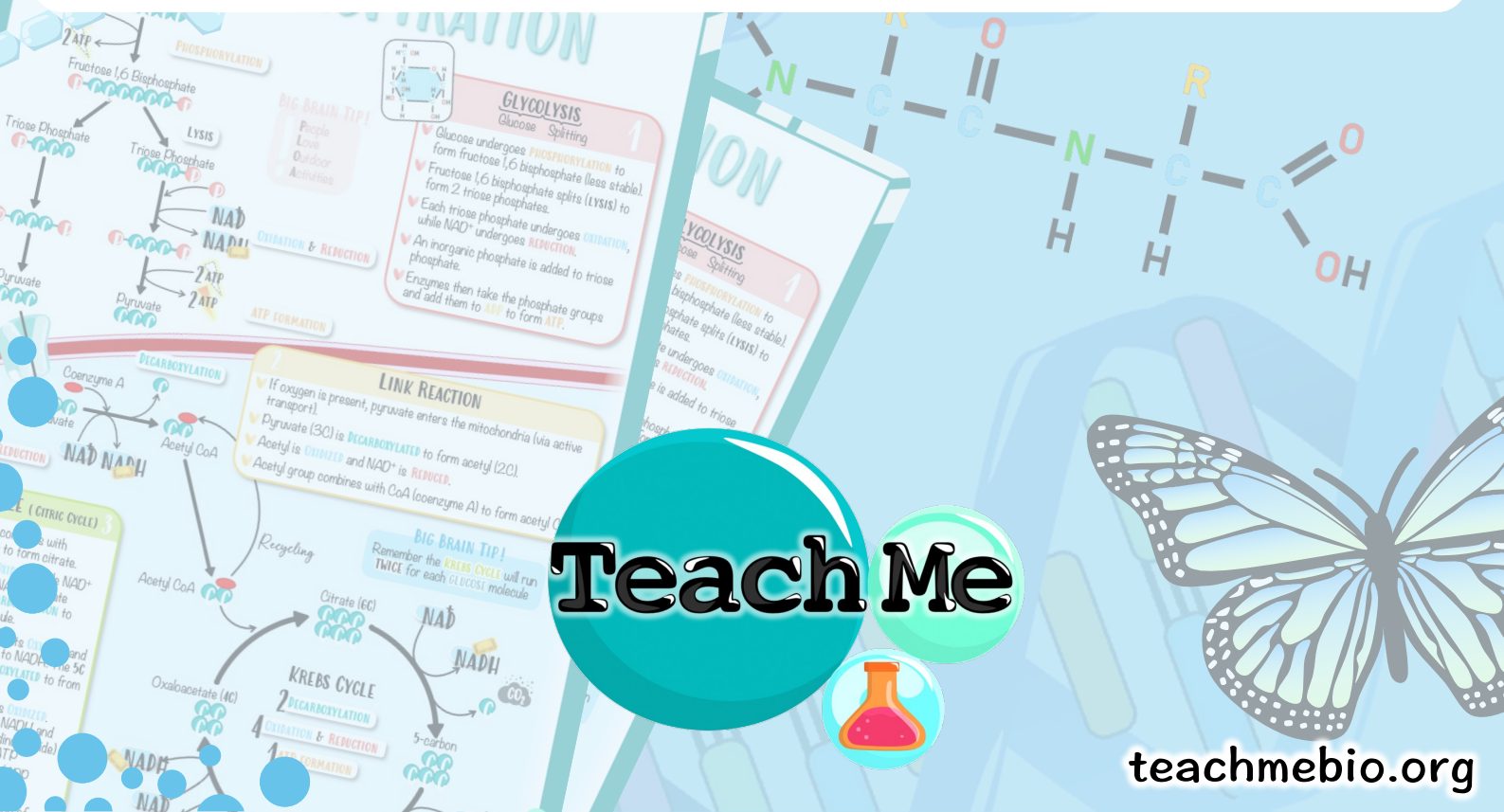


TeachMe

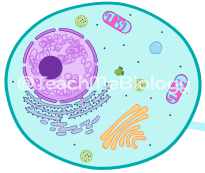
STUDY NOTES

UNIT 1 – CHEMISTRY OF LIFE

1.4 CARBOHYDRATES



Carbohydrates



Have you ever wondered what we're really made of? Sure, we're made of cells... but what are *cells* made of? Over the next few notes we are looking at all the different components of cells one by one

CARBOHYDRATES

LIPIDS

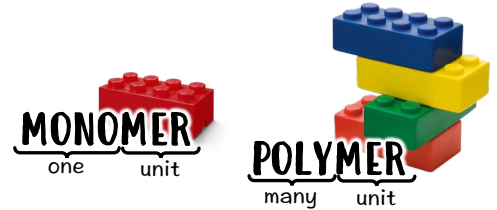
PROTEIN

NUCLEIC ACIDS

WATER

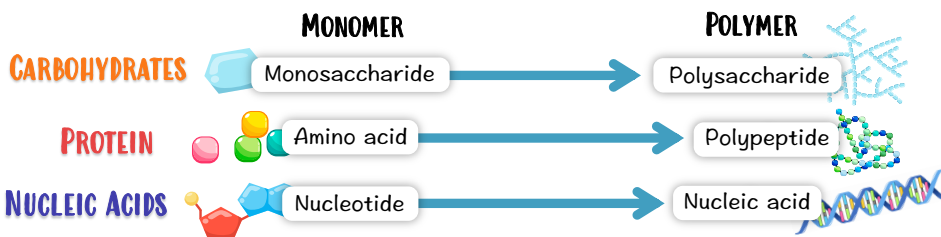
Macromolecules
literally means giant molecule

Macromolecules are large molecules built from smaller, repeating subunits known as **MONOMERS**. By linking many monomers together, you form a **POLYMER**.



BIG BRAIN TIP!

You can think of a monomer as a single Lego piece, and when you join multiple together you get a large structure (polymer)



Most macromolecules (except lipids) follow this same principle, but each type uses different monomers. You'll get to know their names in the upcoming notes — for now, let's focus on carbohydrates!

CARBOHYDRATES

Simple term: sugar

MONOSACCHARIDE
Single Sugar

DISACCHARIDE
Two Sugar

POLYSACCHARIDE
Many Sugar

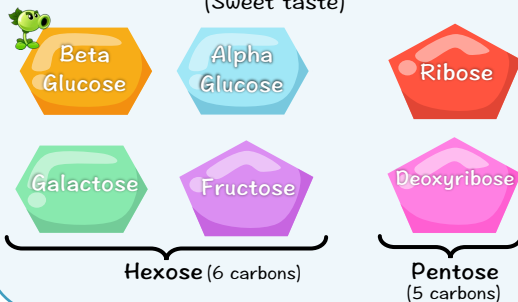
CARBOHYDRATES
Carbon (C)
Hydrogen (H) and Oxygen (O) in a ratio of 2:1 — just like water

Just an overview, we learn about each in more detail!

MONOSACCHARIDES

Page 2

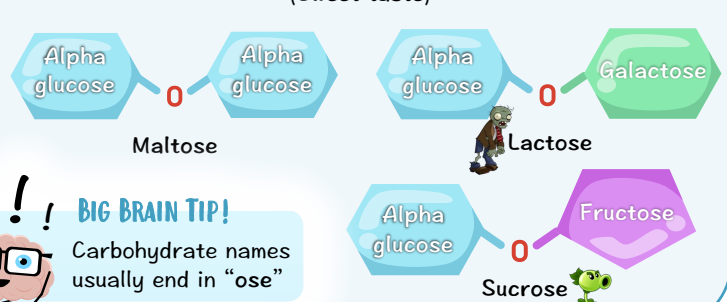
(Sweet taste)



DISACCHARIDES

Page 4

(Sweet taste)



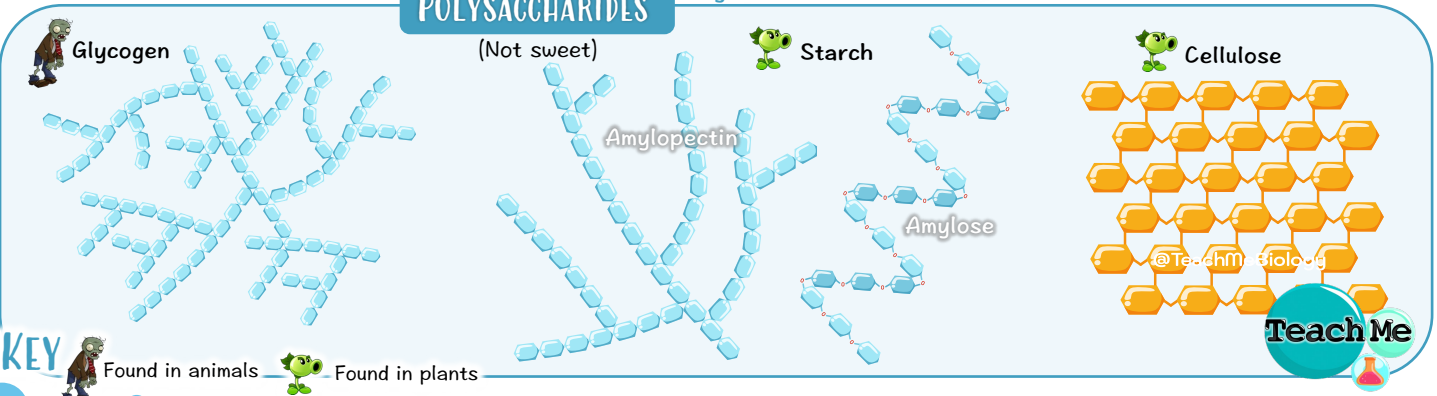
BIG BRAIN TIP!

Carbohydrate names usually end in "ose"

POLYSACCHARIDES

Page 5

(Not sweet)



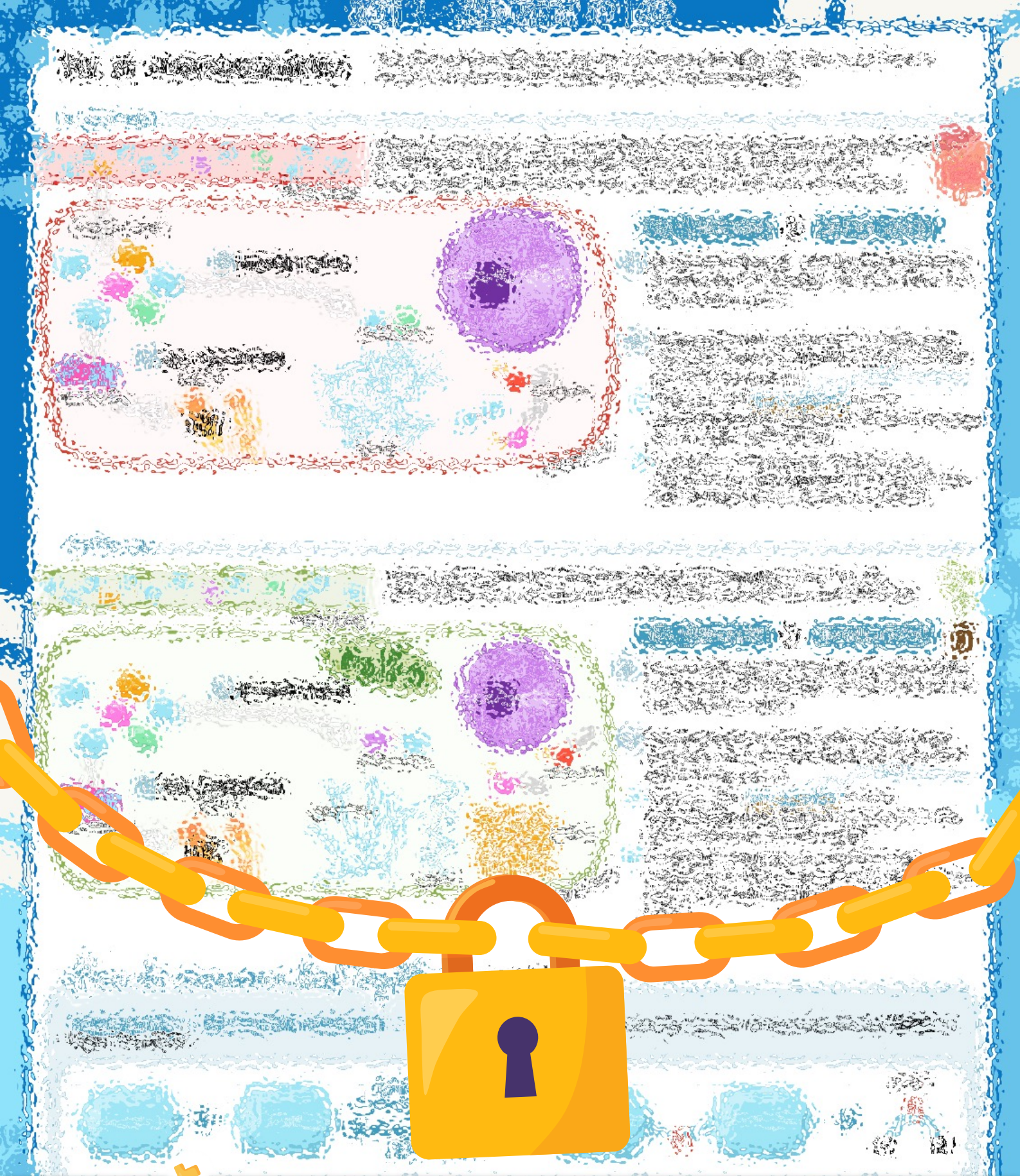
KEY

Found in animals

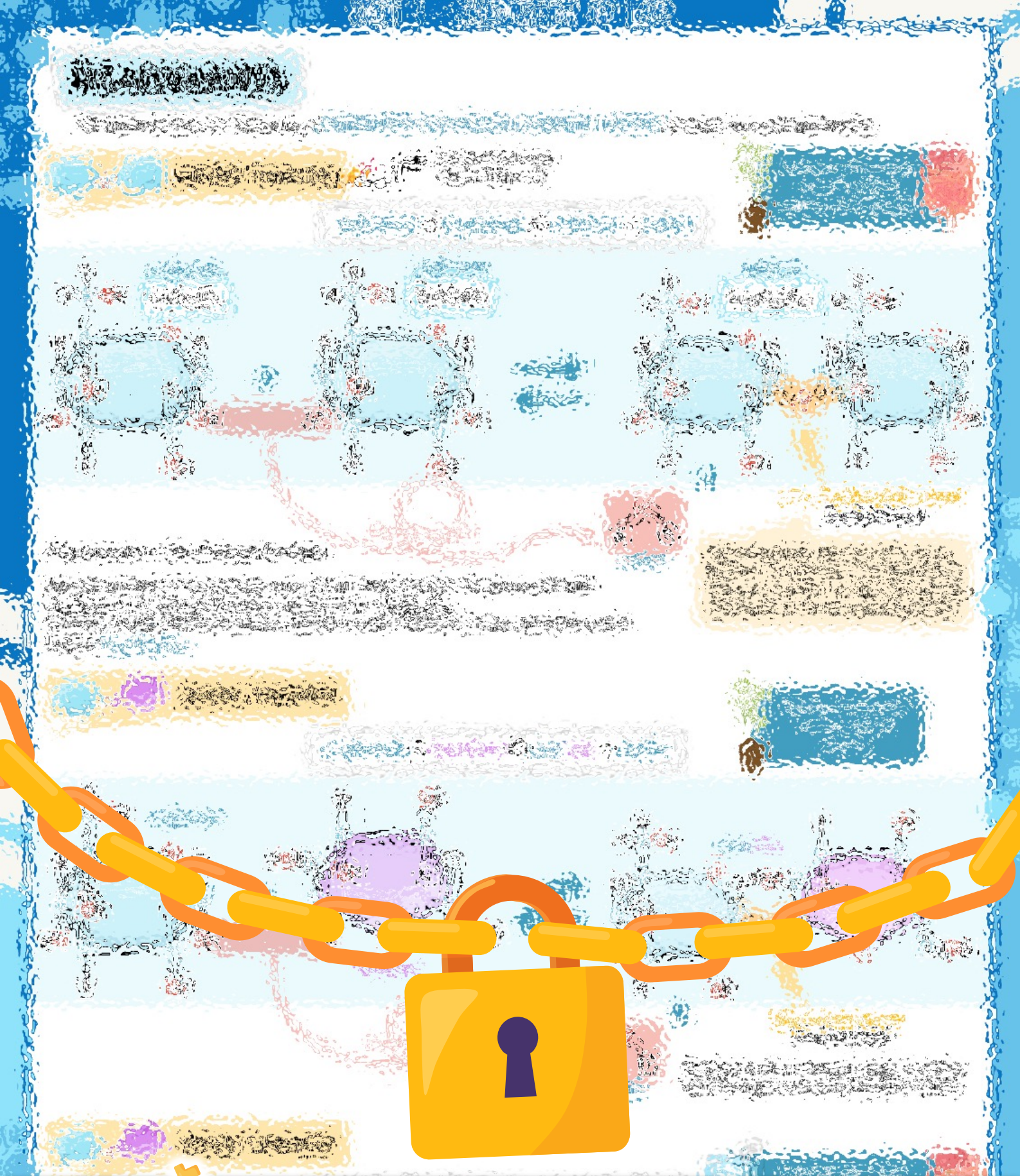
Found in plants



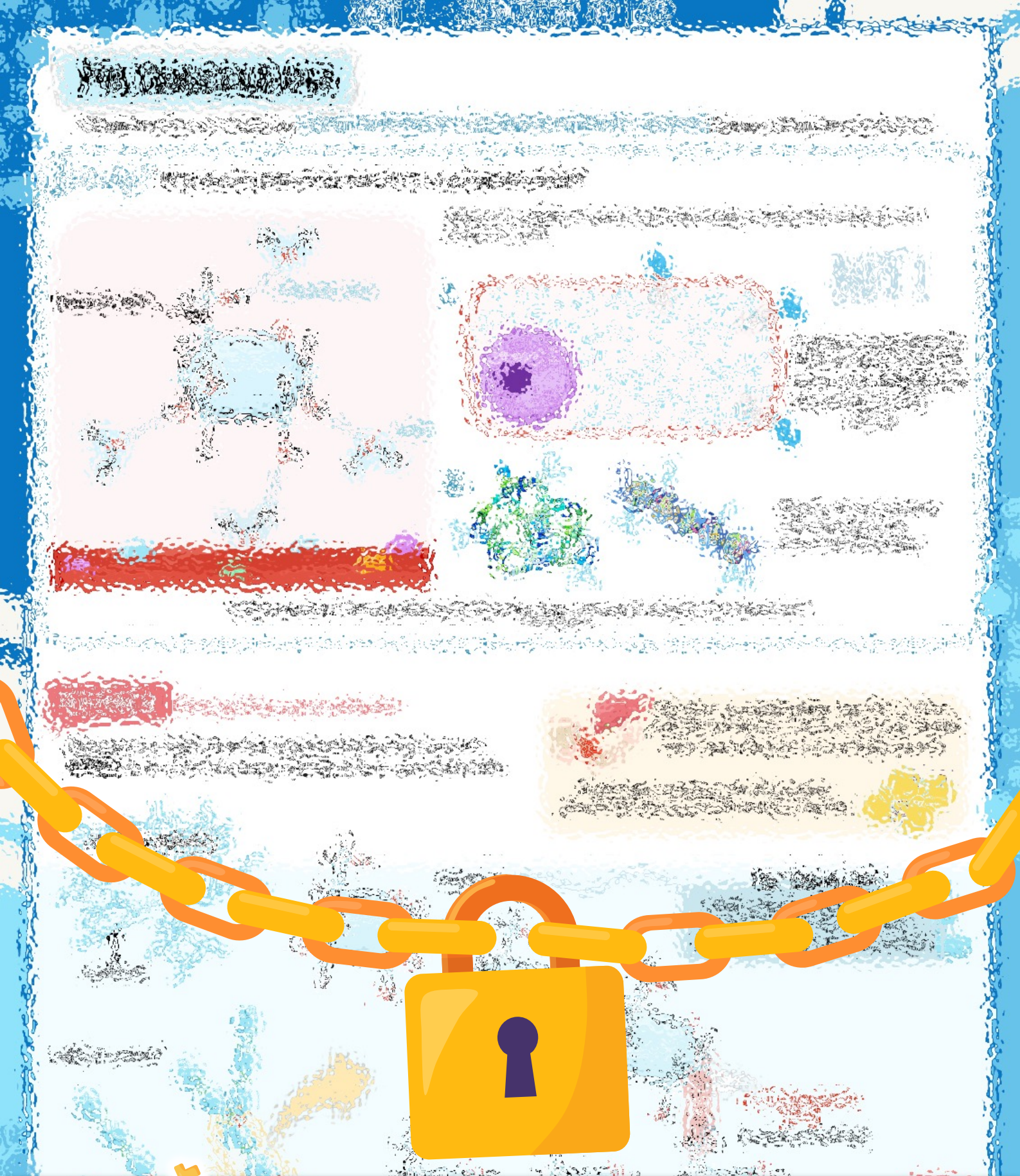
For full access → teachmebio.org



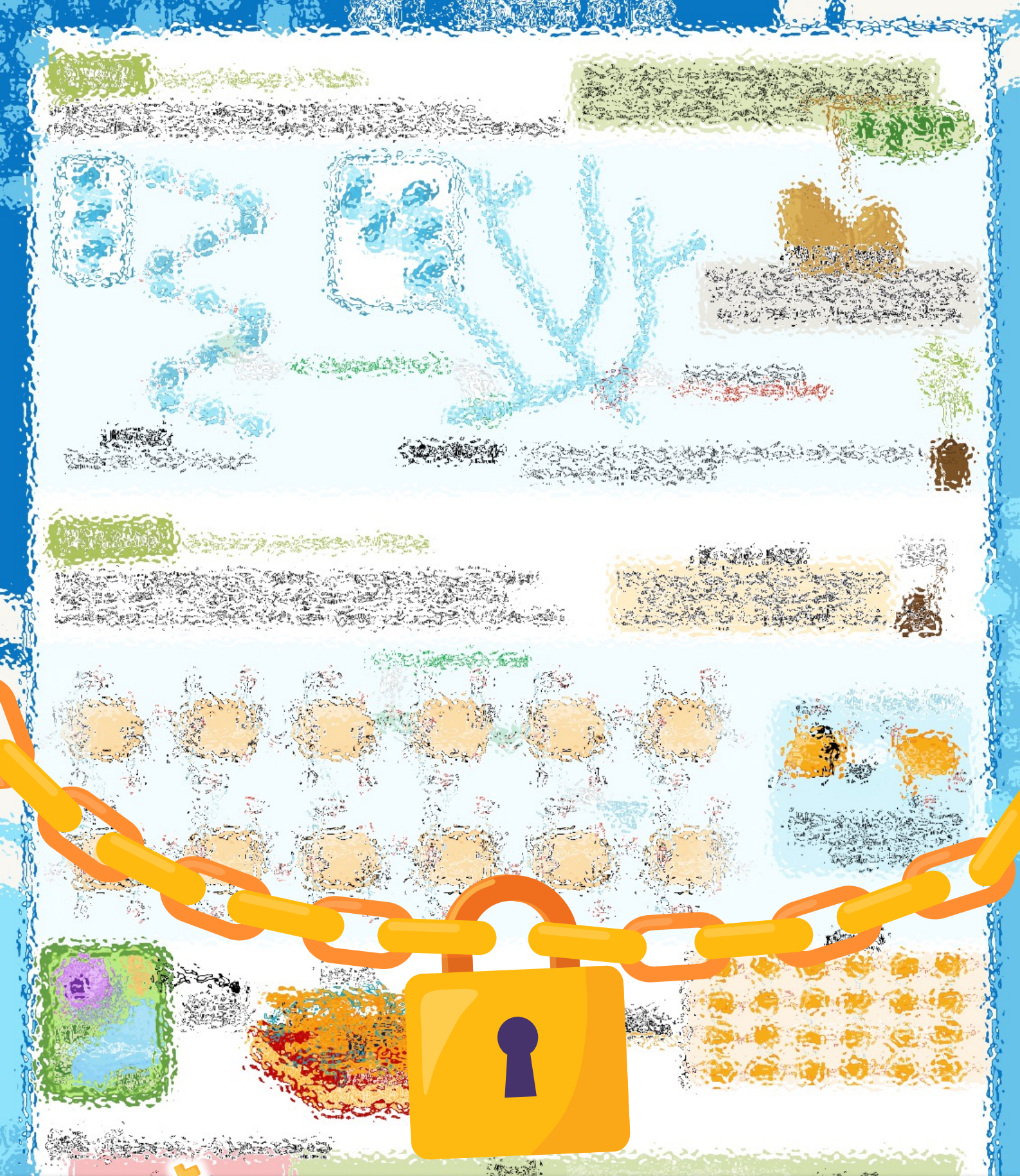
For full access → teachmebio.org



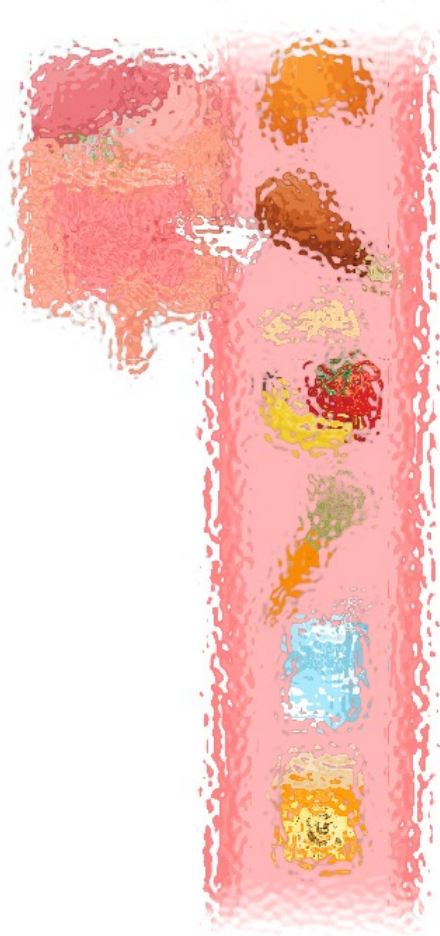
For full access → teachmebio.org



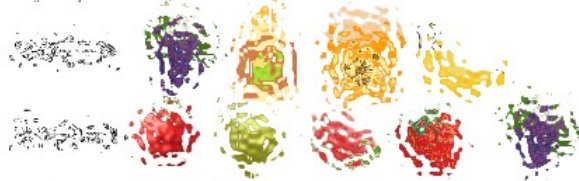
For full access → teachmebio.org



For full access → teachmebio.org



Commonly used



Commonly used



Commonly used



For full access → teachmebio.org



For full access → [teachmebio.org](https://www.teachmebio.org)