

# START

## ORIJENTACIJSKA KARTA

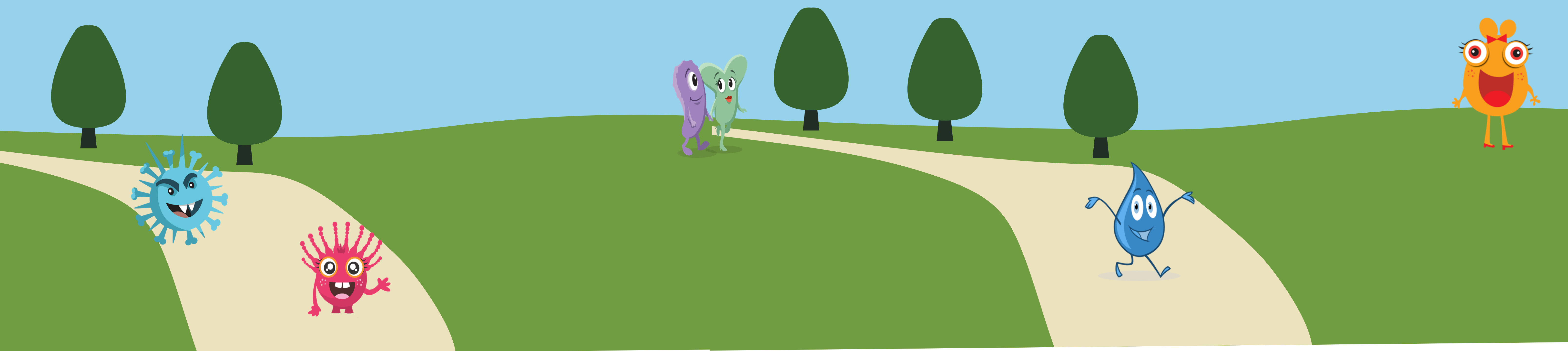
- △ **START**
- **PUNKTOVI (1 - 8)**
- ⊙ **CILJ**



# CILJ

## ORIJENTACIJSKA KARTA

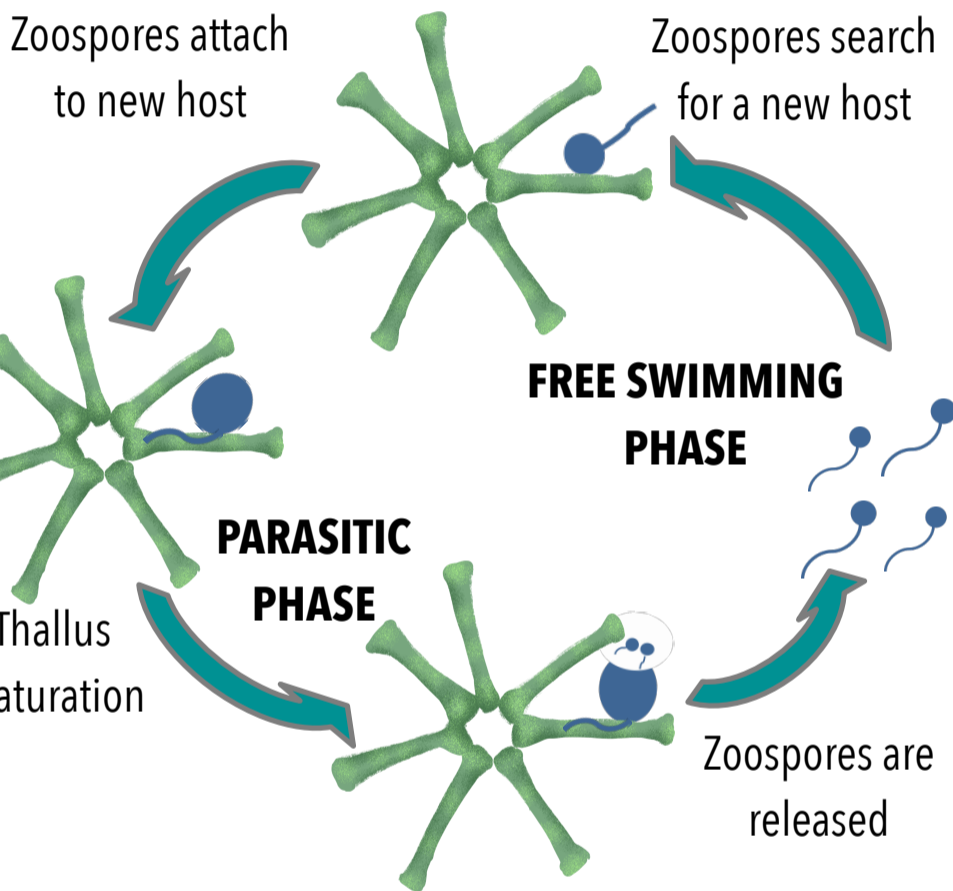
- △ **START**
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- ⊙ **CILJ**



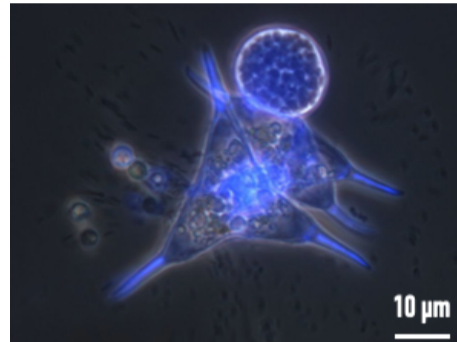
# AQUATIC FUNGI PARASITES OF ALGAE

CHYTRIDS ARE ZOOSPORIC FUNGI characterised by a flagellated, infectious life stage, the zoospore, which constitute a major adaptation to aquatic life

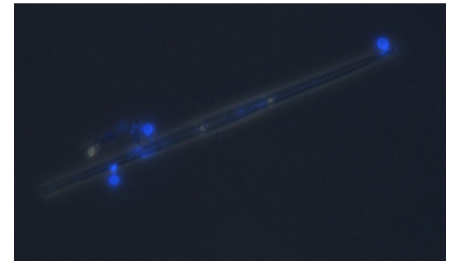
SEVERAL ALGAL SPECIES CAN BE INFECTED



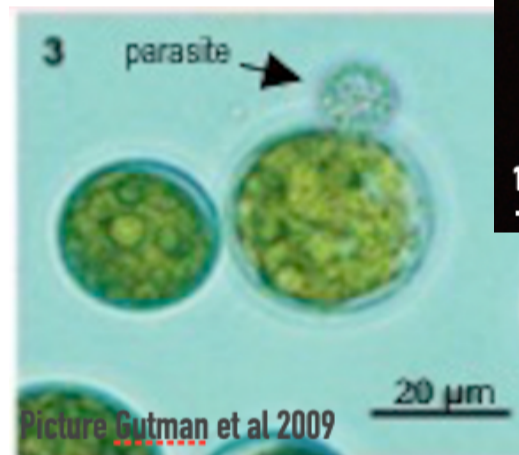
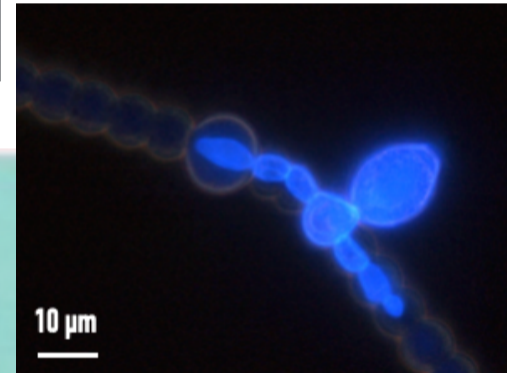
Chlorophyta



Diatoms



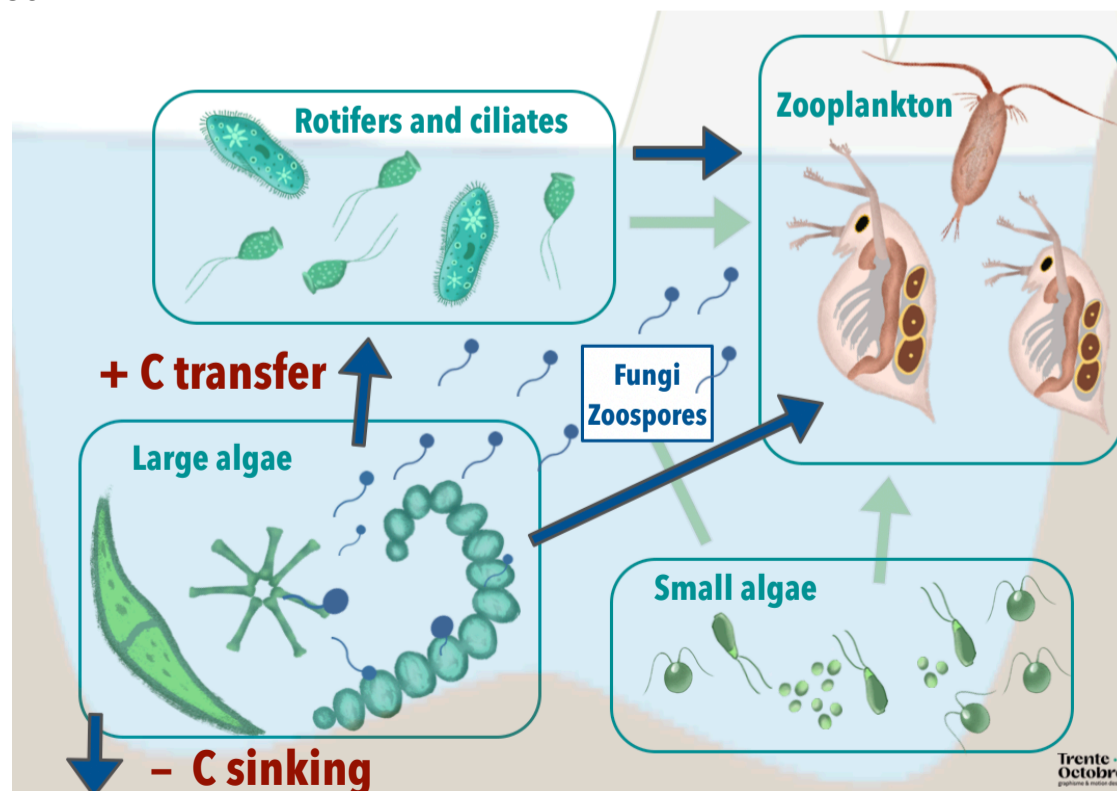
Harmful Blooming Cyanobacteria



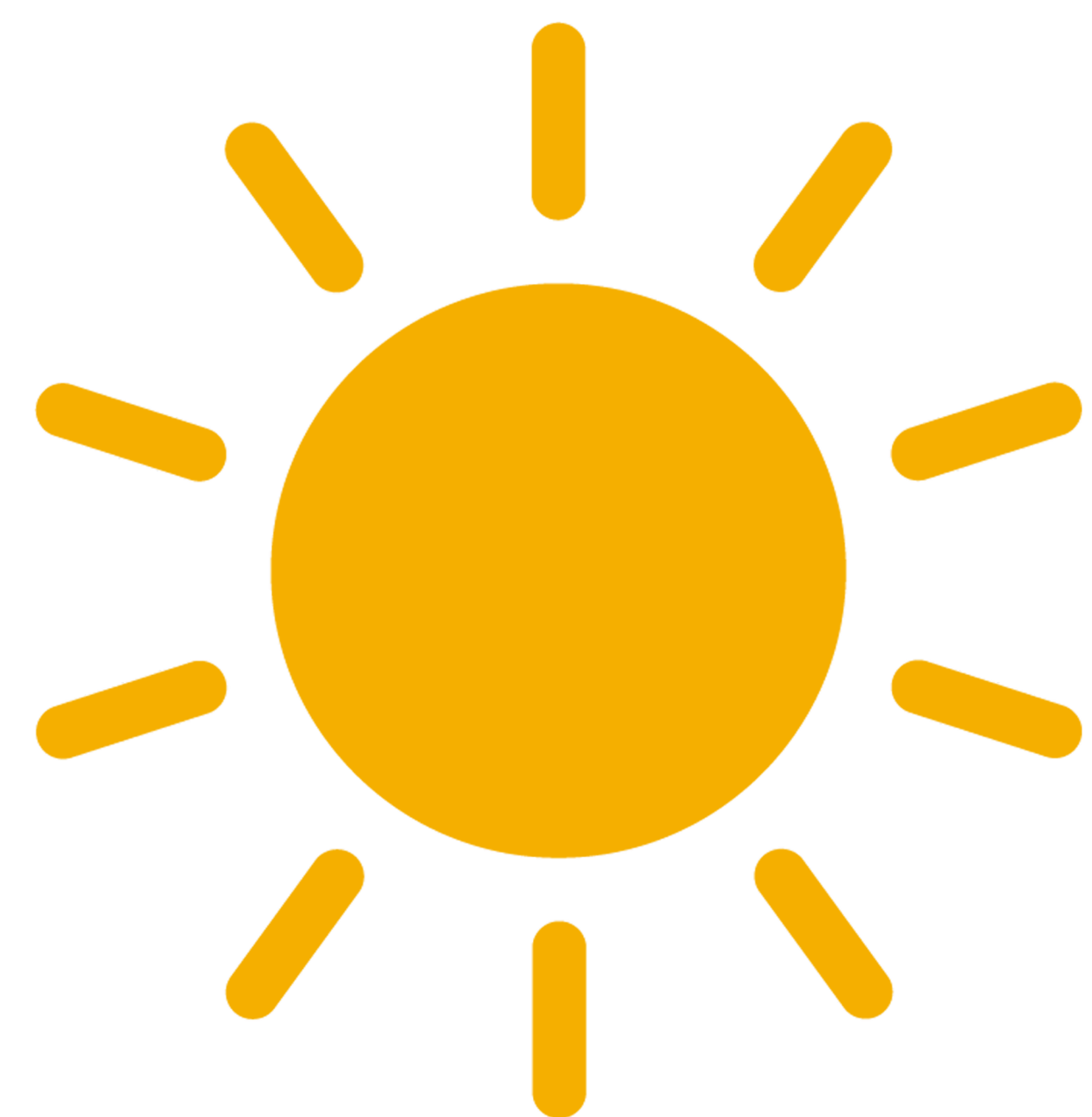
Species of interest in microalgal biotech industry (e.g. *Haematococcus pluvialis*)

## ROLE IN THE FOOD WEB

LARGE ALGAE ARE NOT CONSUMED BY ZOOPLANKTON → BUT ZOOSPORES PRODUCED BY CHYTRIDS ARE VERY SMALL (2-3 µm) AND CAN CONSTITUTE AN ALTERNATIVE FEEDING RESOURCE FOR SMALL GRAZERS

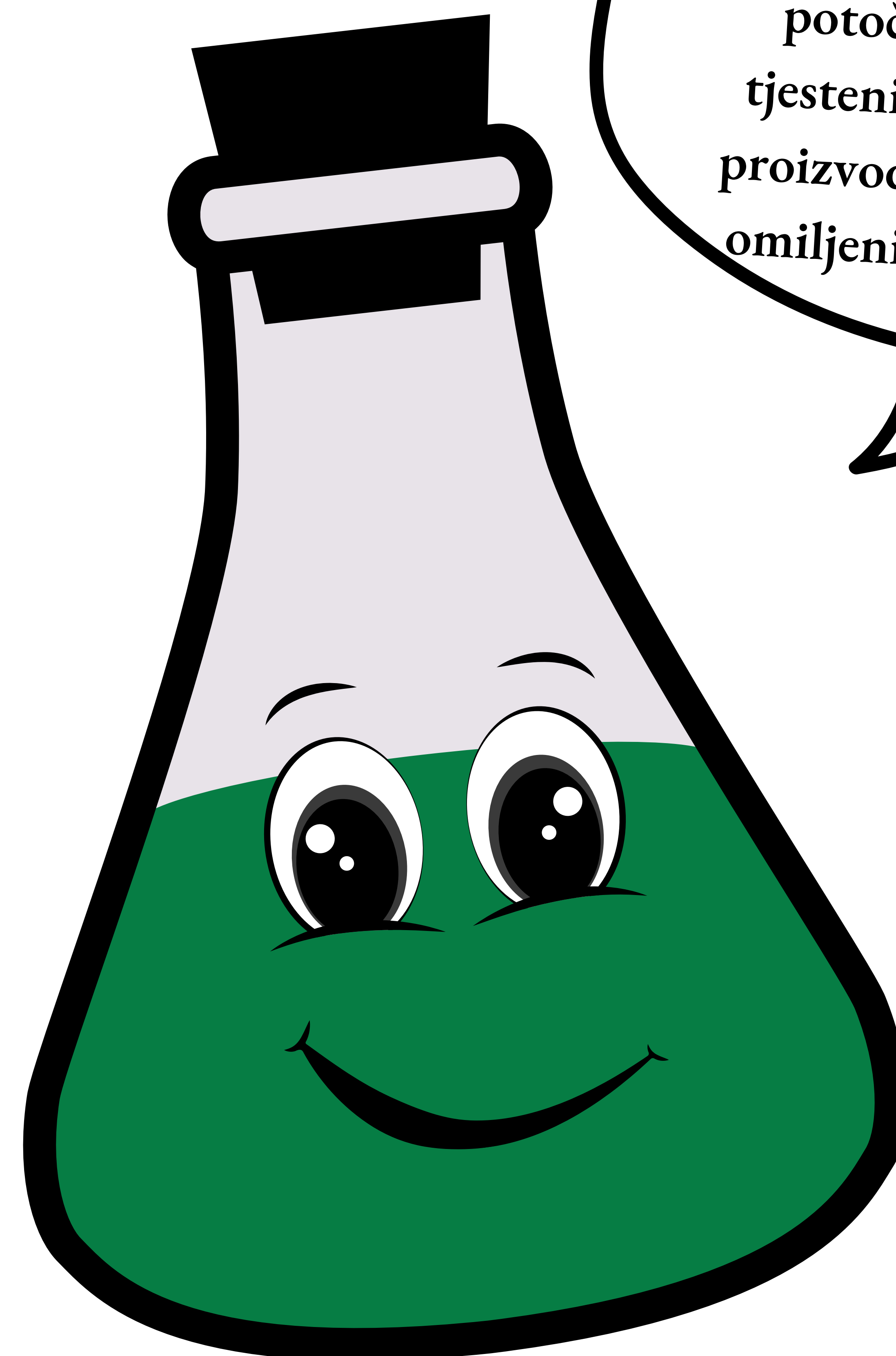
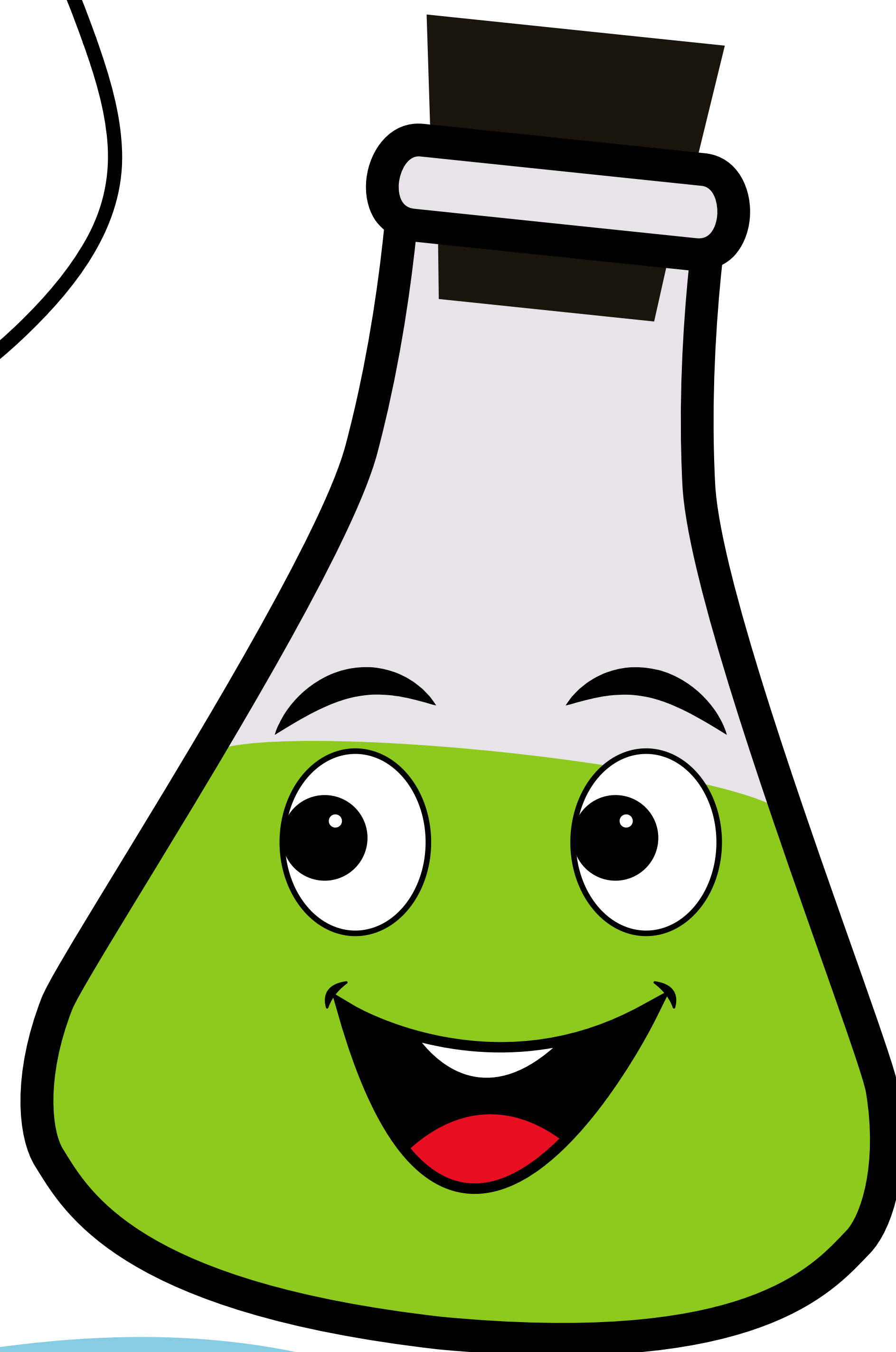


# MIKROALGE

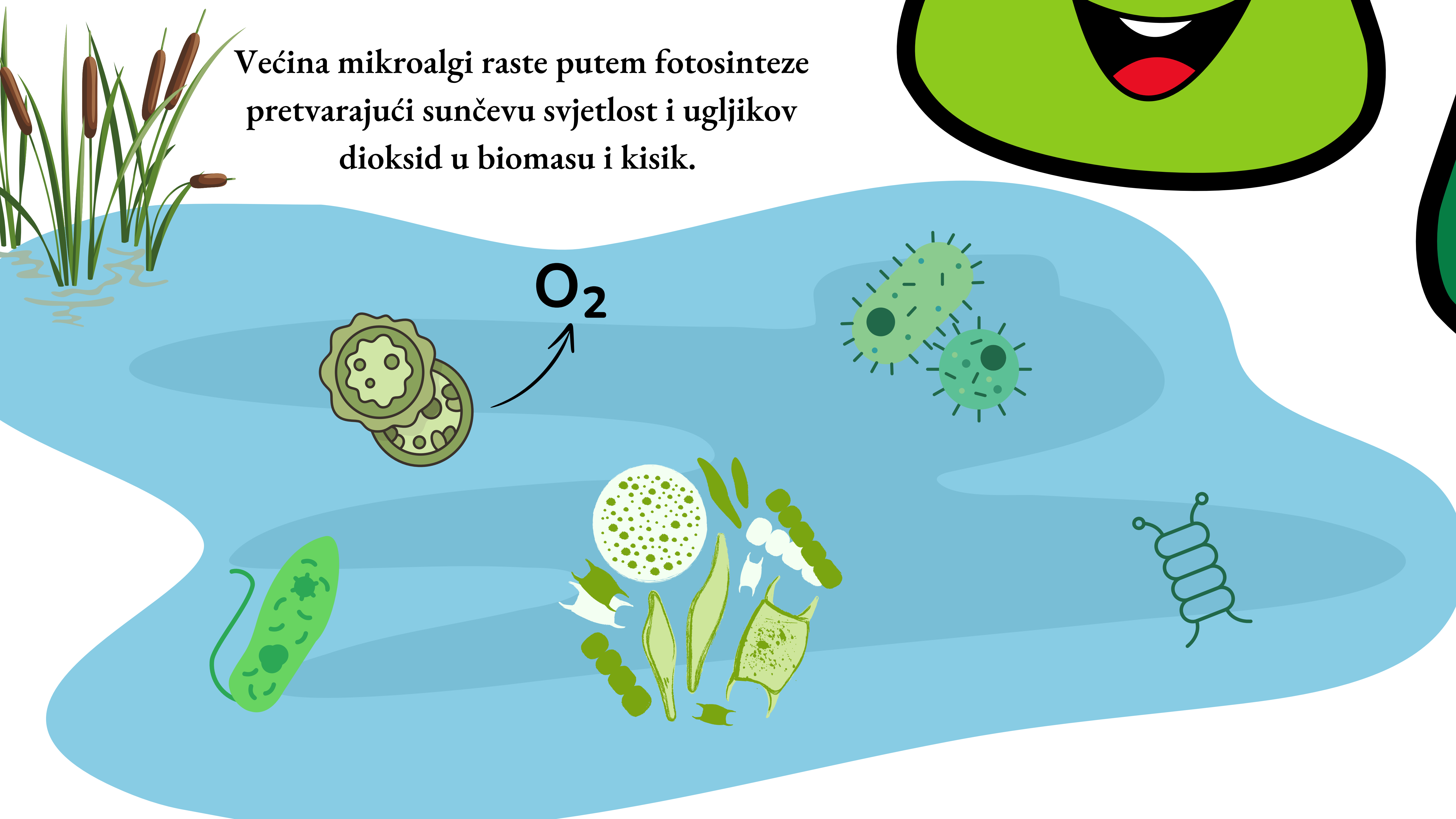


Bok, mi smo mikroalge! Možda nas ne vidiš jer smo jako male, ali zapravo se nalazimo svuda oko tebe!

Možeš nas pronaći svugdje! U rijekama, jezerima i potočićima, ali i u tjestenini, pekarskim proizvodima i u tvojim omiljenim slatkišima.



Većina mikroalgi raste putem fotosinteze pretvarajući sunčevu svjetlost i ugljikov dioksid u biomasu i kisik.



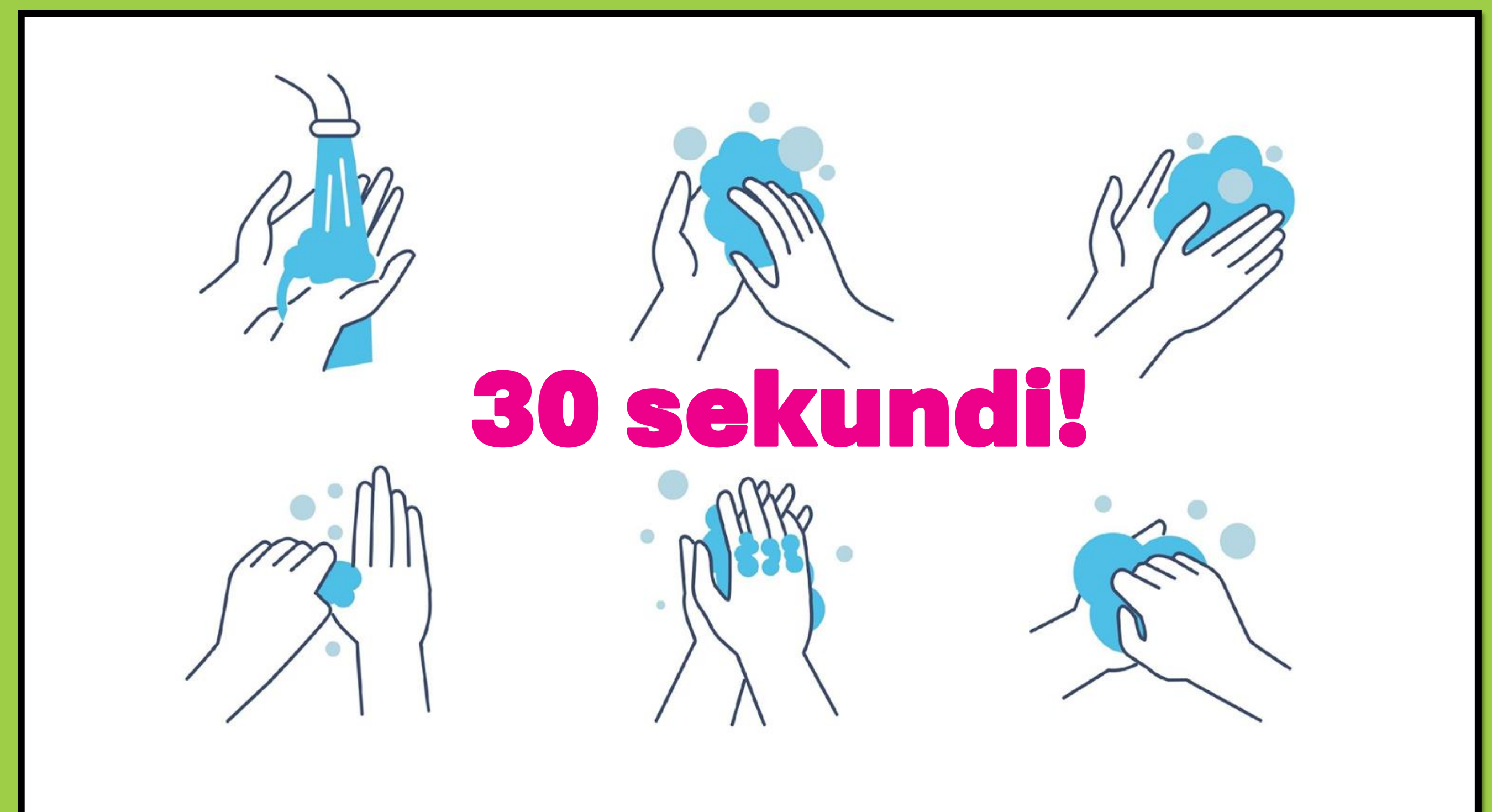
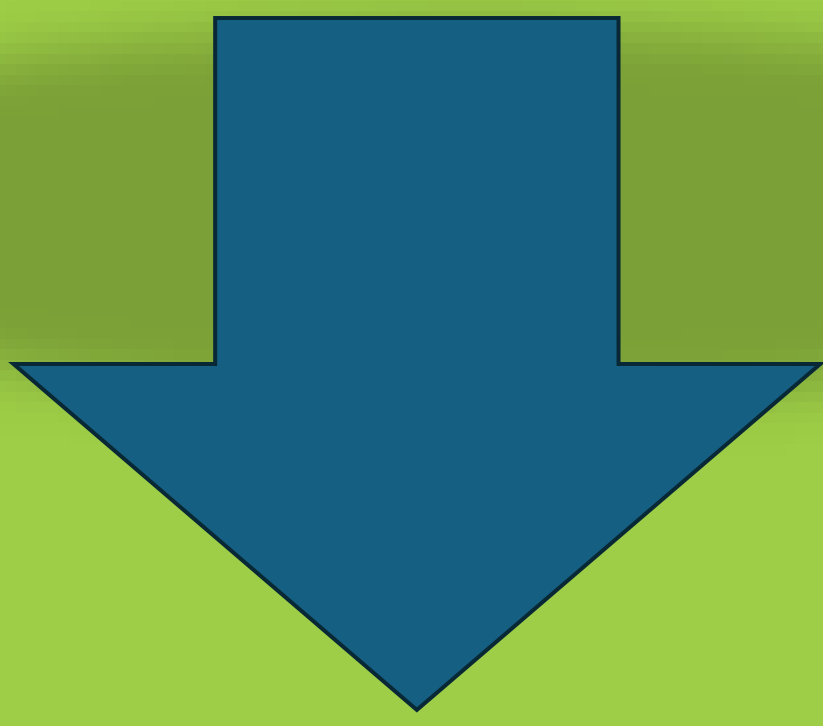
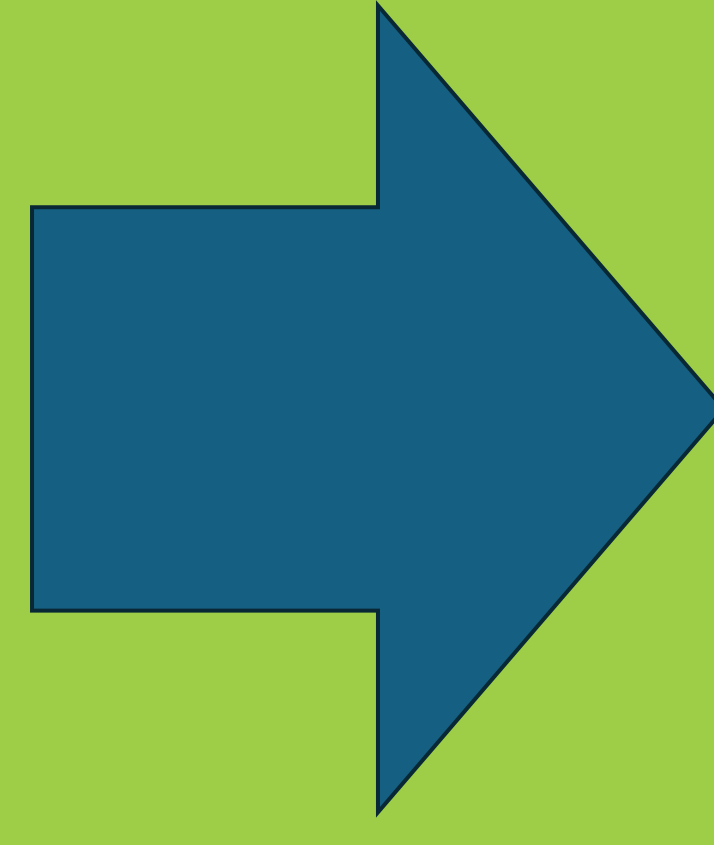
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# Zašto je važno oprati ruke poslije WC-a?



**Tko pere ruke, s virusima i bakterijama nema muke!**

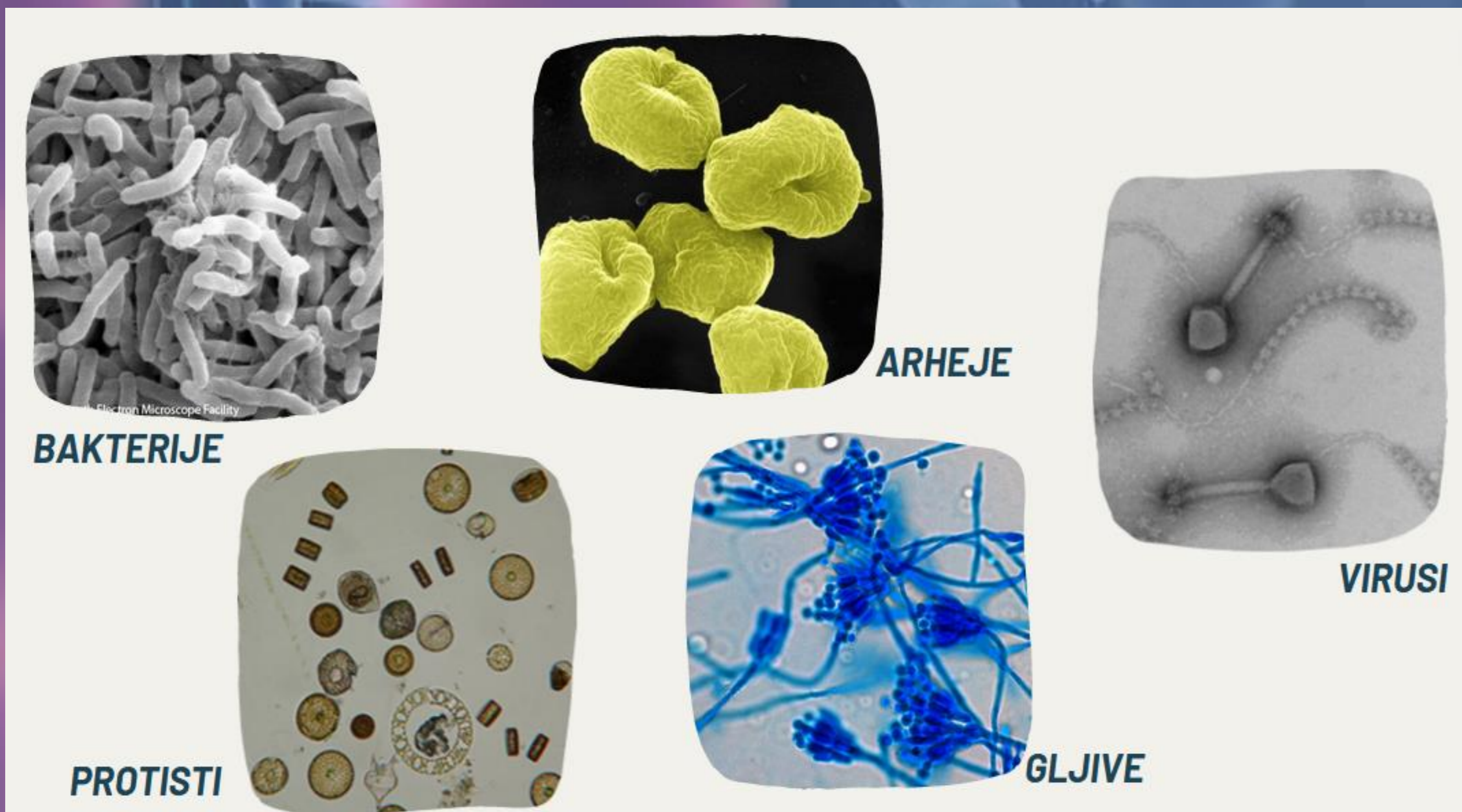




# SITNI SUPERjunaci ili SUPERzločinci?

## MIKROORGANIZMI

### Tko smo mi i koliko nas ima?



u 1 ml vode:  
10 mil. virusa  
1 mil. bakterija  
10000 protista



u 1 g tla:  
10 mil. - 1 milij. virusa  
100000 - 100 mil. Actinomiceta  
100000 - 1 mil. gljiva  
1000 - 1 mil. algi  
1000 - 100000 protista



Planeta Zemlja  
5 x 10<sup>30</sup> prokariota  
60% ukupne biomase  
350-550 pg c  
85 - 130 pg n  
9-14 pg p

## Koje su naše SUPERmoći ?

**Mikroorganizmi mogu**

- Pomagati biljkama
- Biti jako, jako opasni
- Pomoći ljudima da dobiju hranu

Paramecium Parlor @AmoebaSisters

**NAGRADA ZA RAZGRAĐIVAČA GODINE**

Od srca bih zahvalila svim bakterijama nafto-ždercima. Vi ste moja inspiracija!

Tibor nije mogao ni zamisliti da će njegov težak rad biti odabran kao najbolji među svim bakterijama

BORBA ZA PRAVA PAPUČICA

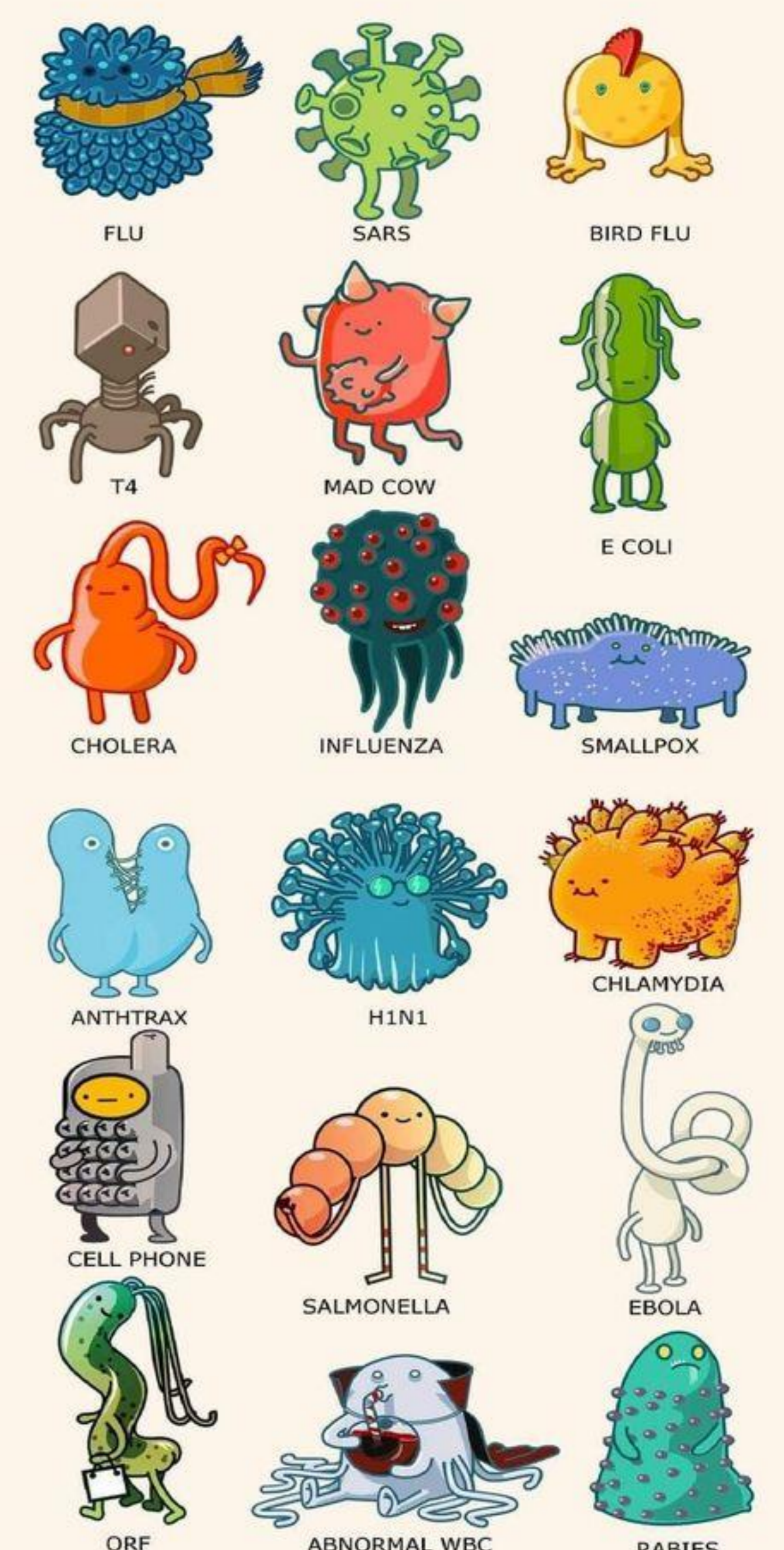
ZAUVEK JEDNOSTANIČNA

Amoeba Sisters

POGOĐEN SAM! IDITE DALJE BEZ MENE

BAKTERIJE U BIJEGU OD IMUNOSNOG SUSTAVA

### TRAŽENI ZLOČINCI



### NESHVAĆENE BAKTERIJE

Break down food in the digestive system!

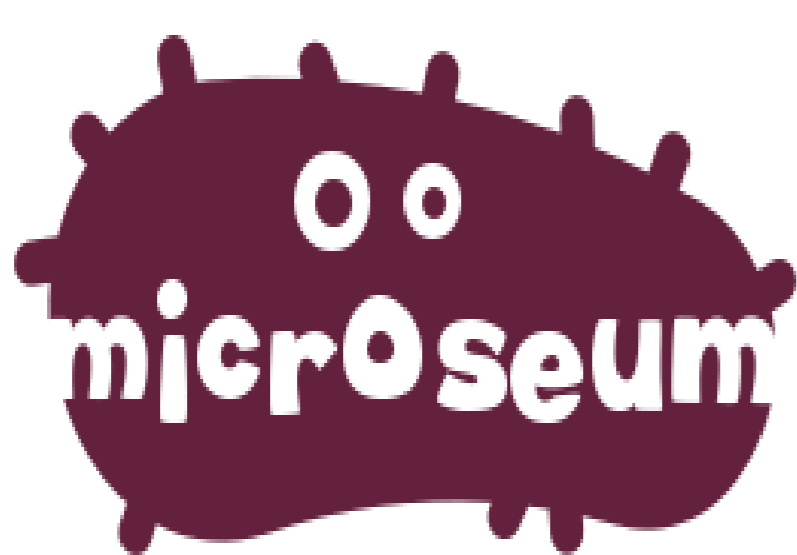
Help decompose organic matter!

Used to make some foods!

Fix nitrogen for plants!

Bakterije su korisne za žive organizme i ekosustave

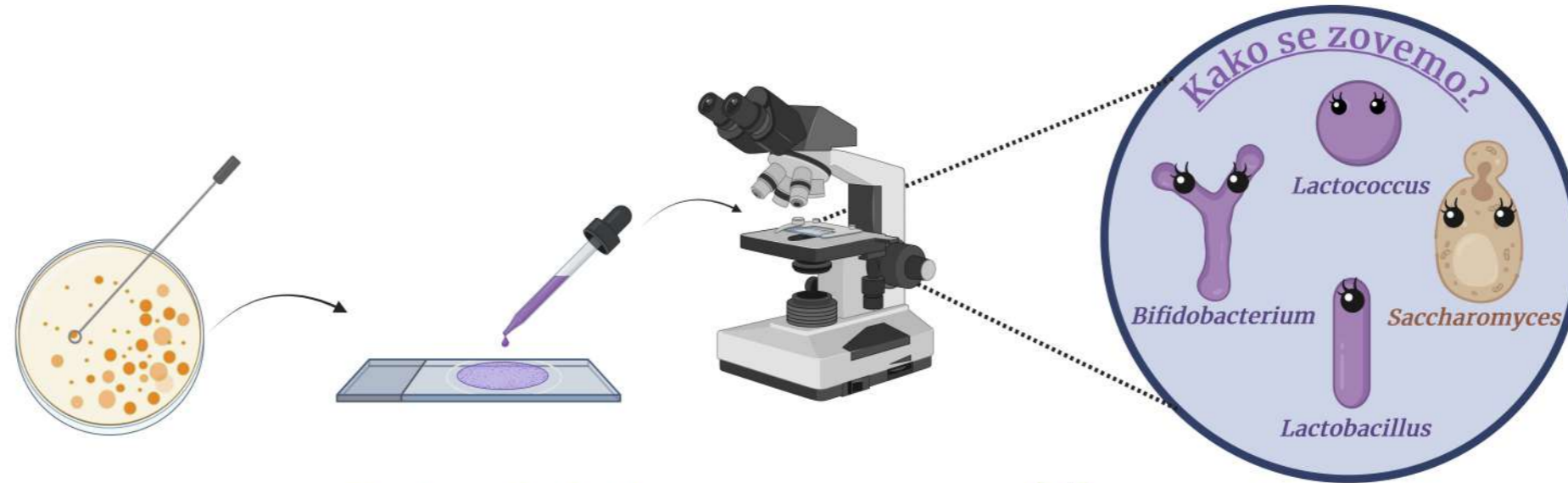
LJUDSKO TIJELO POPULACIJA 1,000,000,000,000,000,000



# KORISNI MIKROBI U HRANI

Starter  
kulture

Probiotici



## Kako dobijemo supermoći?



## Gdje se nalazimo?

