

# WHAT MICROBE ARE YOU

# cmore.soest.hawaii.edu

# Thalassiosira weissflogii!

Terrific job! Scientists call you Thalassiosira weissflogii, but your special code name is Lasso!



You, "Lasso":

- are neat and tidy
   (T. weissflogii is
   organized,...)
- wear glasses
   (...protects itself with hard glass cell walls, and...)
- go to bed early
   (...does its work during the daytime.)



My room is neat and tidy. (go to page 14)



My room is messy. (go to page 2)



# Trichodesmium erythraeum!

Yippee! Scientists call you Trichodesmium erythraeum, but your special code name is Trickster!

#### rickster:

You, "Trickster":

are messy
 (T. erythraeum is disorganized,...)



 likes to be with friends
 (...forms colonies with others, and...)



 cook your own food (...makes its own food.)



Microbe photo: Micro\*scope

Unless otherwise noted, all photos courtesy of Wikimedia Commons.

In a bunk bed, I like the **top** bunk. (go to page 3)



In a bunk bed, I like to sleep on the **bottom**.

(go to page 10)

# Synechococcus!

Fantastic job! Scientists call you **Synechococcus**, but your special code name is **Sy!** 



- like to play alone (Synechococcus likes to live alone,...)
- like the upper bunk (...lives near the surface,...)
- cook your own food (...makes its own food, and...)
- like all types of weather (...can live in cold temperatures.)















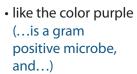


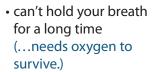
# Salinispora tropica!

Incredible work! Scientists call you Salinispora tropica, but your special code name is **Sporty!** 

You, "Sporty":







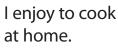








Microbe photo: Eric Gontang, Scripps Institution of Oceanography, SIO.



(go to page 4)



I prefer to eat at restaurants.

(go to page 6)



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# Rhodoferax ferrireducens!

Yahoo! Scientists call you Rhodoferax ferrireducens, but your special code name is Ferret!

rerret!

You, "Ferret":

are messy
 (R. ferrireducens is disorganized,...)



eat at restaurants

 ...eats organic
 material in sediment,
 and...)

 can hold your breath a long time (...lives without oxygen.)





I don't like cold weather. (go to page 30)



I like all sorts of weather. (go to page 35)







In my free time, I like playing alone. (go to page 5)



I like playing with my friends. (go to page 37)



# Ruegeria pomeroyi!

Good for you! Scientists call you *Ruegeria pomeroyi,* but your special code name is *Rugger!* 



You, "Rugger":

 like to eat at restaurants
 (R. pomeroyi eats other living things,...)



don't like purple

 ...is gram negative,
 and...)



 can't hold your breath for a long time (...needs oxygen to survive.)

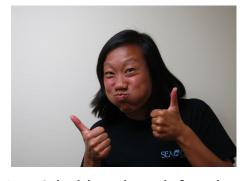




Microbe photo: Gonzalez et al. 2003 Int. J. Syst. Evol. Microbiol. 53: 1261-1269.



# I can hold my breath for a long time. (go to page 9)



I can't hold my breath for a long time. (go to page 7)





# Pyrodictium abyssi!

Super job! Scientists call you **Pyrodictium** abyssi, but your special code name is **Pyro!** 

You, "Pyro":

• like the bottom bunk (*P. abyssi* lives on the bottom of the ocean floor,...)



• like lemonade (...likes acidic conditions, and...)



 have relatives that live all around the world (...can live in different areas.)



Microbe photo: Gertraud Rieger, Karl O. Stetter, Reinhard Ravel, University of Regensburg, René Hermann, Zuerich, Switzerland.

#### **Prochlorococcus marinus!**

Right on! Scientists call you **Prochlo**rococcus marinus, but your special code name is **Pro-Klo!** 



You, "Pro-Klo":

 like to cook at home
 (P. marinus makes its own food,...)



 like to play alone (...likes to live alone, and...)



 don't like the cold (...gets cold easily and prefers warmer waters.)





Purple is one of my favorite colors. (go to page 34)



I don't like the color purple. (go to page 8)



# Methanococcus jannischii!

Great work! Scientists call you Methanococcus jannischii, but your special code name is Jammin'!



You, "Jammin":

are messy
 (M. jannischii is disorganized,...)



 have relatives that live close by (...is found in the same area, and...)



 like the bottom bunk (...lays low on the ocean bottom.)



When I eat beans, I make a stinky gas.



I don't make a stinky gas after eating beans.

(go to page 32)



I stuff my backpack with a lot of things.

(go to page 33)



My bag is not full. (go to page 29)



# Pelagibacter ubique!

Good work! Scientists call you **Pel**agibacter ubique, but your special code name is Pele!

You, "Pele":

 are messy (P. ubique is disorganized,...)



· don't have a full backpack (...has a small genome, and...)



• can't hold your breath for a long time (...needs oxygen to survive.)





Microbe photo: Kehau Manoi, C-MORE University of Hawaii. Under guidance of Megan Huggett and Michael Rappé.

My aunts, uncles, and cousins live all around the world.

(go to page 11)



My relatives live near each other. (go to page 13)



# Lamprocyclas maritalis!

Wonderful! Scientists call you Lamprocyclas maritalis, but your special code name is **Cyclo!** 



You, "Cyclo":

• stay up late (L. maritalis catches its prey at night,...)



 are neat and tidy (...is organized, and...)

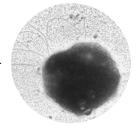


 have straight hair (...has straight extensions that help it float better.)



# Hyperthermus butylicus!

How exciting! Scientists call you Hyperthermus butylicus, but your special code name is Hyper!



You, "Hyper":

 are messy (H. butylicus is disorganized,...)



• like the bottom bunk (...lays low on the ocean bottom, and...)



· have relatives that live all around the world (...is found all over the world.)



Microbe photo: Zillig et al. (1990) *J. of Bacteriology* 172(7): 3959-3965.

I like being part of a team. (go to page 20)

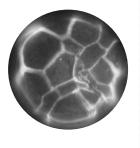


I like doing things on my own. (go to page 12)



# Fragilidium subglobosum!

Congratulations! Scientists call you Fragilidium sub**glob**osum, but your special code name is **Global!** 



You, "Global":

 are neat and tidy (F. subglobosum is organized,...)



 follow the rules (...can either makes its own food or eat other things, and...)



• go to bed early (...does its work during the daytime.)



I prefer swimming in pools. (go to page 28)



Swimming in the ocean is the best. (go to page 25)



I like to drink milk. (go to page 26)



I prefer drinking lemonade.

(go to page 31)

Halobacterium salinariumus!

Great job! Scientists call you Halobacterium salinariumus, but your special code name is Holler Back!

You,"Holler Back":

are messy
 (H. salinariumus is disorganized...)



 have relatives that live close by (...is found in the same area, and...)



 like to swim in the ocean

 likes to live in super salty places.)



Microbe photo: science.nasa.gov.

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I stay up late.
(go to page 15)



I go to bed early.

(got to page 16)



# Emiliania huxleyi!

Hooray! You did it! Scientists call you *Emiliania huxleyi*, but your special code name is *Hustle!* 



You, "Hustle":

go to bed early
 (E. huxleyi does its
 work during the
 daytime,...)



are neat and tidy (...is organized...)



 don't like change and only like one or two kinds of fruit (...only has one way of making food.)



# Elphidium crispum!

Mission accomplished! Scientists call you *Elphidium crispum*, but your special code name is *Crispy!* 



You, "Crispy":

 are neat and tidy (E. crispum is organized,...)



have curly hair

 ...makes swirly

 shells, and...)



 like to stay up late (...catches its prey at night.)



**7** Microbe photo: Spike Walker.

My hair is mostly straight.

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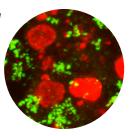
My hair is curly. (go to page 22)



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# Cenarchaeum symbiosum!

Good work! Scientists call you Cenarchaeum symbiosum, but your special code name is Simby!



You, "Simby":

are messy
 (C. symbiosum is disorganized,...)



like the bottom bunk
 (...lives near the
 ocean bottom and...)



enjoy teamwork
 (...lives closely with a marine sponge.)



I go with the flow and follow the rules. (go to page 24)



I'm a trouble maker and don't follow the rules.

(go to page 19)



I like lots of different fruit.



I only like one or two kinds of fruit.



Desulfovibrio desulfuricans!

Nice job! Scientists call you **Desul**fovibrio **desul**furicans, but your special code name is **Diesel!** 

You, "Diesel":

 like to eat out at restaurants (D. desulfuricans doesn't make its own food so eats things in the sediment,...)



have stinky gas after eating beans
...makes gas that smells like rotten eggs, and...)



 can hold your breath for a long time
 (...lives without oxygen.)



Microbe photo: Alice Dohnalkova, Pacific Northwest National Laboratory.

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I don't wear glasses. (go to page 23)

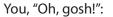


I wear glasses. (go to page 36)



# Akashiwo sanguineum!

You did it! Scientists call you **Akash**iwo sanguineum, but your special code name is **Oh, gosh!** 



are neat and tidy
 (A. sanguineum is organized,...)



 are flexible and eat all kinds of fruit (...can either make its own food or eat other organisms, and...)



 are a trouble-maker (...can kill mussels and oysters.)





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