

MY

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EXPERIENCE

WITH

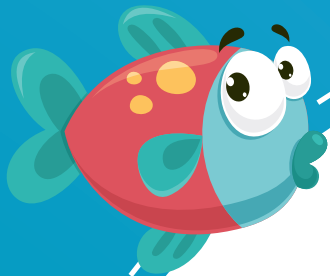
SCIENCE

2

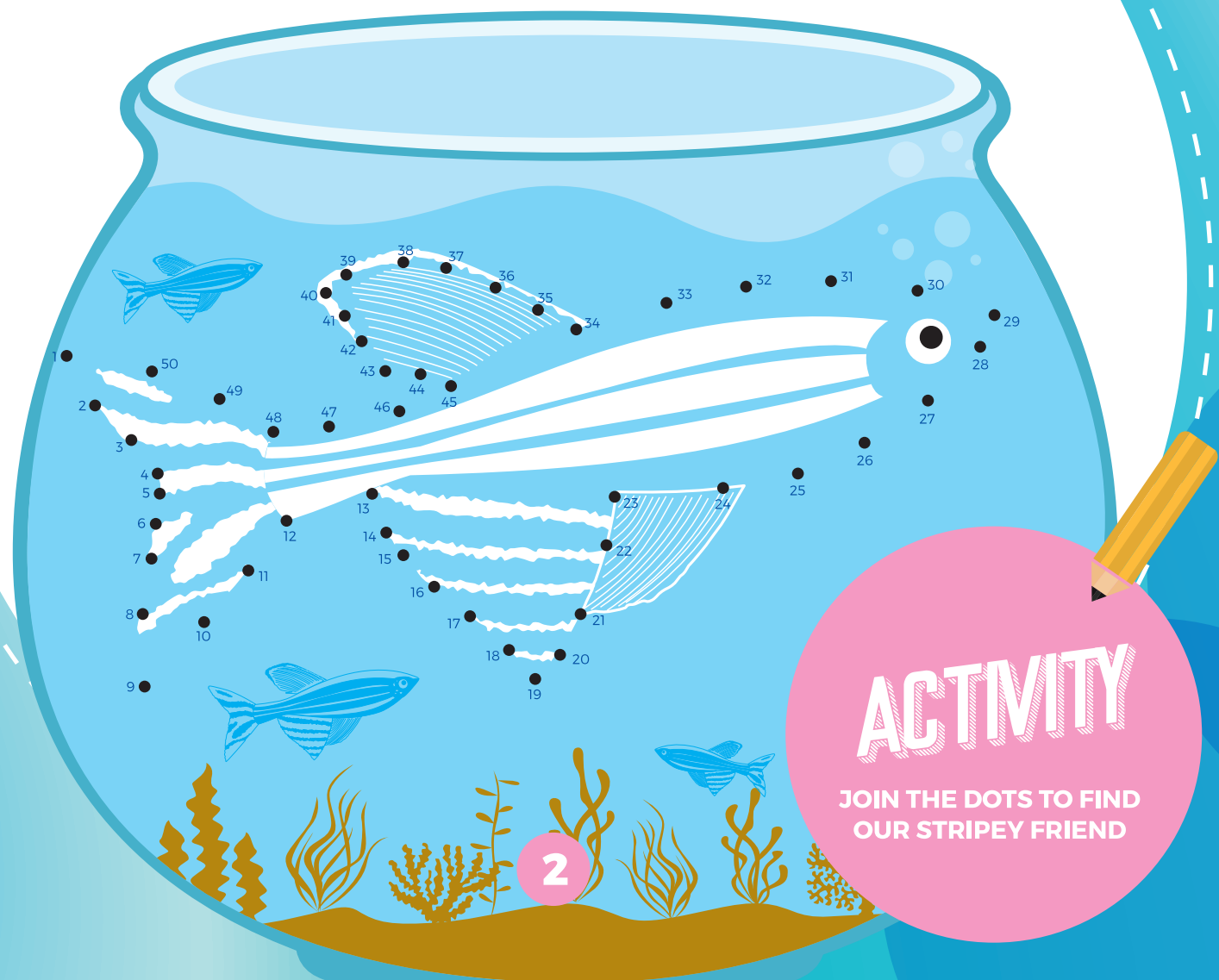


sociedad española
para las ciencias
del animal de laboratorio

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It should be Laboratory Animal is very important in the research for disease treatments. The zebrafish, or **Danio rerio**, using its scientific name. Is a powerful ally of our scientists in biomedicine and biotechnology because of its high degree of genetic and physiological similarity to humans."



ACTIVITY

JOIN THE DOTS TO FIND
OUR STRIPEY FRIEND

2



ACTIVITY



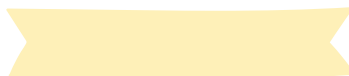
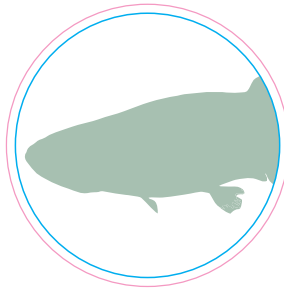
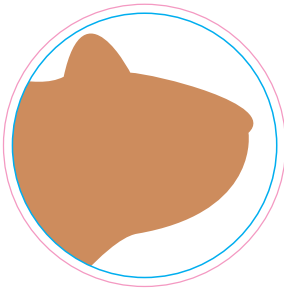
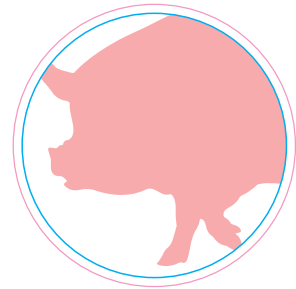
- RESEARCH
- REFINE
- CURE

DOWN

- ETHICS
- REPLACE
- ANIMALS
- REDUCE

THE SHAPE ZOOM

Do you know what an animal model is? Human and animal bodies have many systems in common. For this reason, scientists often use animals as a model organism to mimic human diseases and find out how they can be prevented, cured or treated.



MOUSE / ZEBRAFISH / FROG
HAMSTER / PIG



ACTIVITY

WE HAVE ZOOMED IN
ON THE SHAPE OF EACH
ANIMAL. WHICH ANIMALS
ARE THEY?



VOWEL TYPES

All the words in this activity play a very important role in the study, prevention, prophylaxis, diagnosis or treatment of diseases in humans and animals.

A/a

Ethic_l
_nimal
Tre_tment
V_ccine

E/e

R_place
Animal W_lfar_
Hypoth_sis
_xp_rim_nt
Cur_

I/i

_nvestigate
Ref_ne
Ant_b_ot_c
Genet_cally
mod_f_ed

O/o

Auth_rised
B_dy
Pr_cedure

U/u

Biosec_rity
Red_ction
Vir_s



ACTIVITY

COMPLETE
THE WORDS
WITH THE RIGHT
VOWEL



THE SCIENTIFIC FOOTPRINT

Thanks to the scientific footprint that our animal friends have left, we have been able to advance in our knowledge in order to diagnose and develop treatments that improve the life quality of humans and animals.

This mouse and its footprint have contributed to improve, through several studies, human health.

This frog and its footprint helped in the development bronchodilators, a well known medication that has improved the life of thousands of asthmatics people.

And look at the scientific footprint that our friend the pig has left behind, which helps and refines the techniques that allow kidney transplants in humans.

Specialist physicians can diagnose, in a better and faster way, patients with leishmaniasis thanks to the footprint of our friend the rabbit.

This sheep's footprint has made a decisive contribution in the development of foetal surgery, providing surgeons with tools to correct prenatal diseases.

This chick helped us to increase the life expectancy of premature babies - its scientific footprint is certainly bigger than it seems.



ACTIVITY

DRAW A LINE BETWEEN THE ANIMAL'S FOOT OR HOOF PRINT AND THE TEXT ON ITS SCIENTIFIC FOOTPRINT



CHROMOSOME SETS

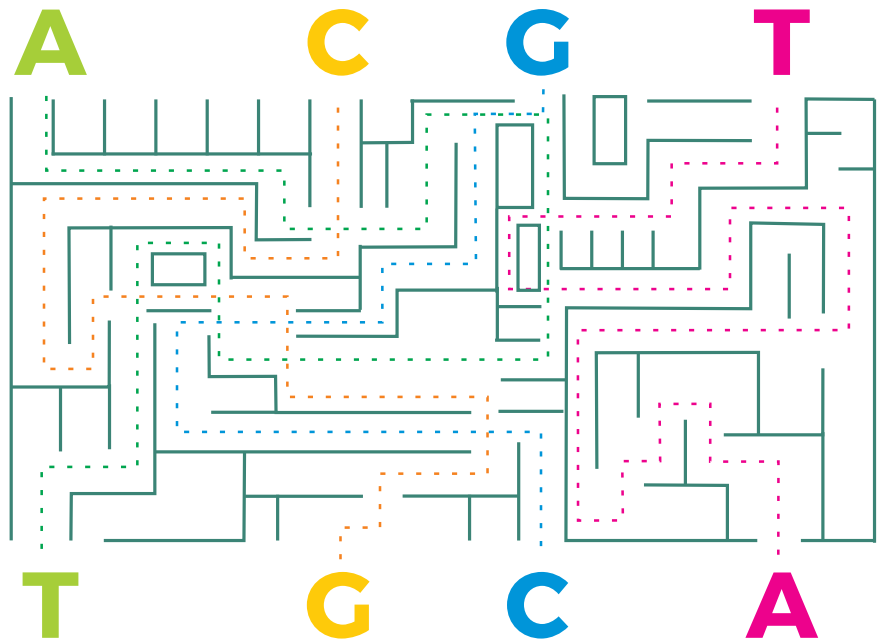
"Our DNA contains every kind of genetic information that works as a instructions manual, in order to develop, live and reproduce ourselves. The mouse takes an excellent part in the human disease as its DNA's organisation, and the way its genes are expressed, is very similar to human beings. That's why genetically modified mice (GMM), are one of our best allies in the study of genetic function and the disease basis, as well as for the generation of animal models with multiple pathologies."



A C G T
T G C A

ACTIVITY

THE STRUCTURE OF DNA IS SIMILAR TO A SPIRAL STAIRCASE AND ITS STEPS ARE CALLED ADENINE, GUANINE, TIHYMINE AND CYTOSINE (A, G, T and C). TO CONNECT THE LETTERS OF THIS SPIRAL STAIRCASE BY COMBINING THE STEPS.





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