

2019 Regeneration-Award ceremony

a comic inspired by the talk by Jan Kaslin

IN THE MOST ANTICIPATED NIGHT OF THE YEAR:

REGENERATION AWARDS

WELCOME FRIENDS OF MORPHOLOGY REPAIR AND FUNCTION RESTORATION...

...TO THE ANNUAL REGENERATION AWARDS CEREMONY!

AS YOU MIGHT KNOW

- AFTER RECEIVING SOME COMPLAINTS FROM THE VERTEBRATE COMMUNITY -

THIS YEAR WE ARE SEPARATING THE AWARDS IN DIFFERENT CATEGORIES.

...THE COMMITTEE REALIZES THIS DECISION IS CONTROVERSIAL AND ITS GOAL IS NOT TO POLARIZE THE COMMUNITY BUT TO MOTIVATE DISCOVERY AND REWARD MORE POTENTIAL.



WE'LL START WITH THE NEW CATEGORY: THE REGENERATION AWARD FOR A VERTEBRATE ORGANISM!

HERE ARE THE NOMINEES:

2019

VERTEBRATE

TADPOLE

TAIL

AXOLOTL

LIMB

NEONATE MOUSE

HEART

ZEBRAFISH

FIN

AND THE WINNER IS...

THE AXOLOTL

FOR THE AMAZING PROCESS OF WHOLE LIMB REGENERATION AFTER INJURY!

SKIN! MUSCLE! NERVES! CARTILAGE!

BONE!

THE REGENERATION OF AN ENTIRE ARM OF THIS MEXICAN SALAMANDER INVOLVES PERFECT COORDINATION FOR REGROWTH OF EVERY TISSUE. AND ALL OF THIS COMPLETELY SCAR-FREE!

MUCHAS GRACIAS!

I WANT TO DEDICATE THIS AWARD TO ALL THE SCIENTISTS THAT HAVE RESCUED ME FROM THE XOCHIMILCO LAKE!

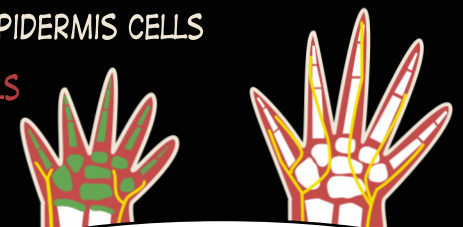
BUT MOSTLY I WANT TO THANK MY INCREDIBLE TEAM OF CELLS IN THE BLASTEMA:

NERVE CELLS

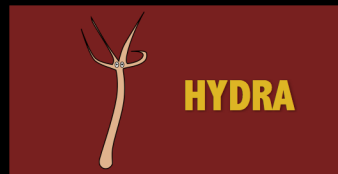
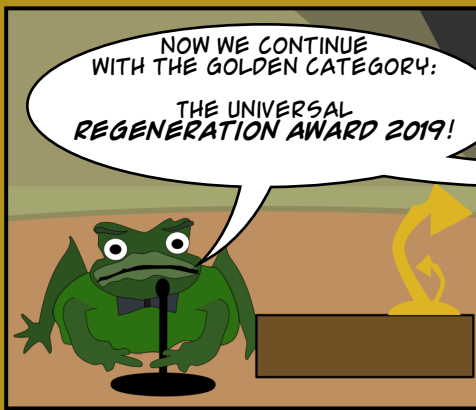
FIBROBLASTS

EPIDERMIS CELLS

MUSCLE CELLS



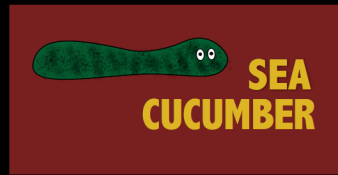
AND OF COURSE THE PROCESSES OF (DE-)DIFFERENTIATION, GROWTH AND DEVELOPMENT THAT THEY UNDERGO.



HYDRA



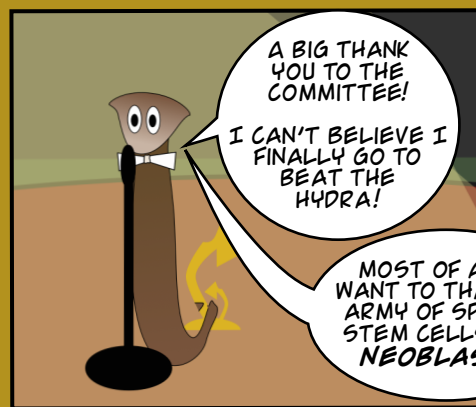
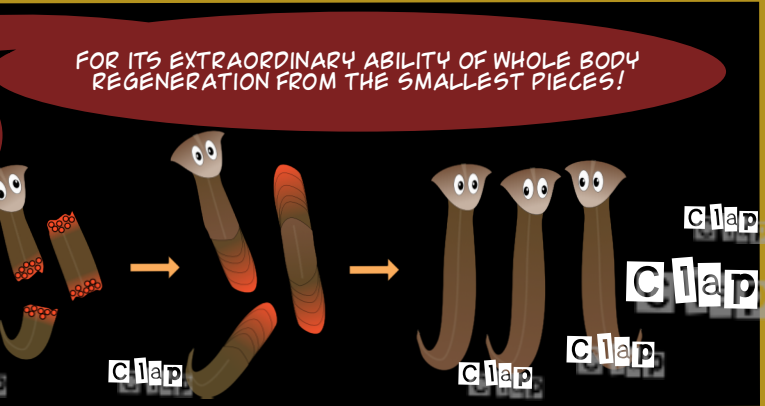
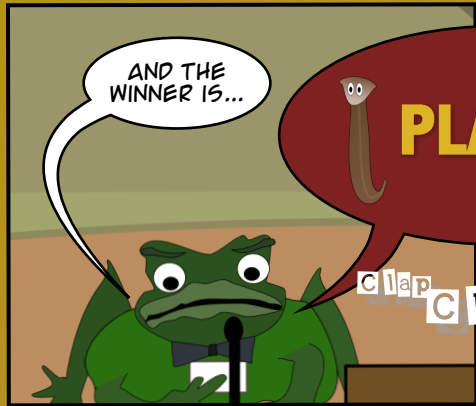
SEA STAR



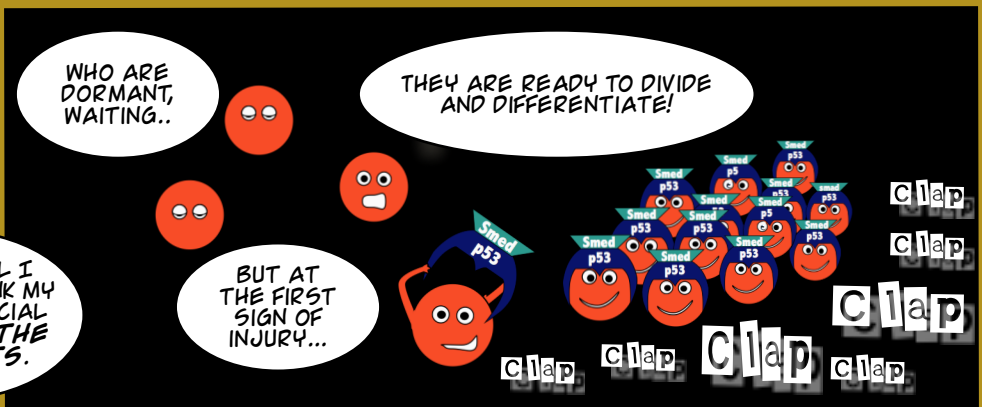
SEA CUCUMBER



PLANARIA



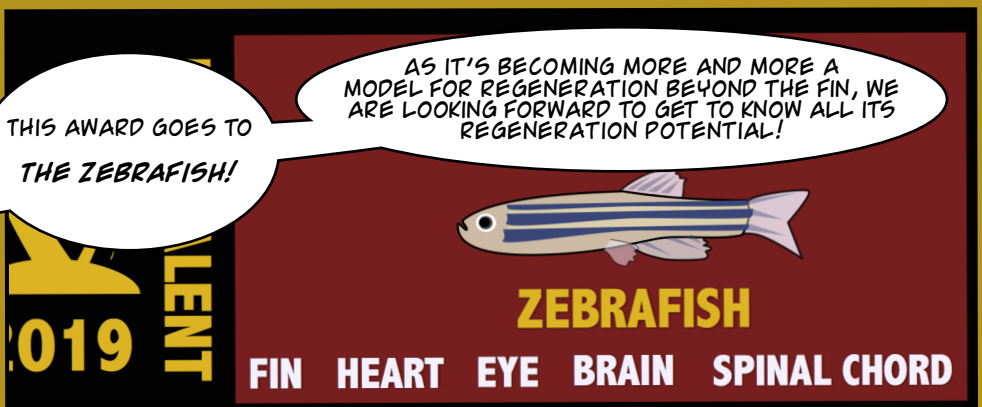
A BIG THANK YOU TO THE COMMITTEE!
I CAN'T BELIEVE I FINALLY GO TO BEAT THE HYDRA!
MOST OF ALL I WANT TO THANK MY ARMY OF SPECIAL STEM CELLS THE NEOBLASTS.



WHO ARE DORMANT, WAITING...

THEY ARE READY TO DIVIDE AND DIFFERENTIATE!

BUT AT THE FIRST SIGN OF INJURY...

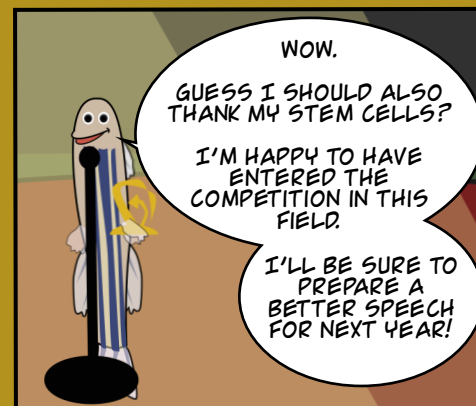


THIS AWARD GOES TO THE ZEBRAFISH!

AS IT'S BECOMING MORE AND MORE A MODEL FOR REGENERATION BEYOND THE FIN, WE ARE LOOKING FORWARD TO GET TO KNOW ALL ITS REGENERATION POTENTIAL!

ZEBRAFISH

FIN HEART EYE BRAIN SPINAL CHORD



WOW.
GUESS I SHOULD ALSO THANK MY STEM CELLS?
I'M HAPPY TO HAVE ENTERED THE COMPETITION IN THIS FIELD.
I'LL BE SURE TO PREPARE A BETTER SPEECH FOR NEXT YEAR!



THE END.

This comic strip was created by:
DR. PAULA GONZALEZ AVALOS
paula@datasciencestorytelling.com
And made possible by:

