

THIS ARTWORK IS BASED UPON WORK FROM COST ACTION 'ENHANCING KNOWLEDGE OF BIOMOLECULAR SOLUTIONS FOR THE WELL-BEING OF EUROPEAN AQUACULTURE SECTOR (BIOAQUA) - CA22160', SUPPORTED BY COST (EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY).

FISH SUPERPOWERS!



BIOAQUA

COST IS A FUNDING AGENCY FOR RESEARCH AND INNOVATION NETWORKS. OUR ACTIONS HELP CONNECT RESEARCH INITIATIVES ACROSS EUROPE AND ENABLE SCIENTISTS TO GROW THEIR IDEAS BY SHARING THEM WITH THEIR PEERS. THIS BOOSTS THEIR RESEARCH, CAREER AND INNOVATION.

CONTENTS 01

**CHAPTER 1: THE MYSTERY OF
THE TIRED FINS** 02

**CHAPTER 2: A VISIT FROM DR
CLARA** 04

**CHAPTER 3: TESTING THE
SUPER FEED** 06

**CHAPTER 4: FISHY
SUPERPOWERS & ONE HEALTH** 08

**CHAPTER 5: A PEEK INTO THE
AQUACULTURE WORLD** 10

**CHAPTER 6: TAKING CARE OF
OUR PLANET** 11

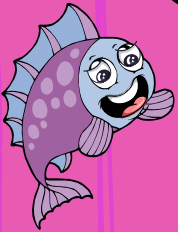
**EPILOGUE: FINLEY, BUBBLES, AND
STELLA'S MESSAGE TO KIDS** 13

CHAPTER 1: THE MYSTERY OF THE TIRED FINS



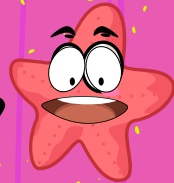
Finley, Bubbles, and Stella swim sluggishly in their tank at George's farmhouse. They seem confused and low-energy.

FINLEY



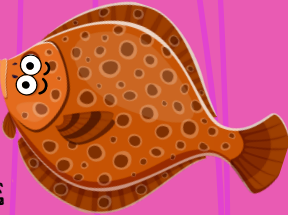
I DON'T GET IT... WHY DO I FEEL SO TIRED THESE DAYS? I USED TO SWIM LAPS AROUND THIS TANK!

STELLA



MAYBE IT'S SOMETHING IN THE WATER. OR... MAYBE IT'S THE FOOD? I FEEL SO DRAINED!

BUBBLE



COME ON, GUYS! I BET IT'S NOTHING! JUST A LITTLE FISH NAP, AND WE'LL BE BACK TO NORMAL, RIGHT?

HMM... MY LITTLE FISH PALS LOOK WORN OUT. SOMETHING'S NOT RIGHT HERE.



GEORGE, THE FARMER,
NOTICES THEIR SLUGGISH
BEHAVIOUR AND
SCRATCHES HIS HEAD.



HE DECIDES TO CALL
DR CLARA, THE FISH
VET, FOR ADVICE.



VET CLINIC



STORE

CHECK UP


LAB



03


CHAPTER 2: A VISIT FROM DR CLARA

DR CLARA ARRIVES AT THE FARMHOUSE CARRYING A SPECIAL CONTAINER LABELLED “SUPER FEED”



HI, GEORGE! I HEAR YOUR FISH ARE FEELING A LITTLE DOWN. LUCKY FOR THEM, I HAVE SOMETHING NEW —A SUPER FEED PACKED WITH SPECIAL NUTRIENTS, ENSURING FOOD SAFETY!

SUPER FEED, HUH? WHAT'S THAT SUPPOSED TO DO? WHAT IS FOOD SAFETY?



IT'S HOW WE CHECK FISH FOOD IS SAFE AFTER CONDUCTING RISK ASSESSMENT—SPOTTING DANGERS LIKE BACTERIA OR VIRUSES, FIXING THEM, AND TELLING EVERYONE. IT KEEPS US HEALTHY AND CONFIDENT TO EAT...

DR CLARA EXPLAINS TO GEORGE
THE SPECIAL INGREDIENTS
DESIGNED TO MAKE FISH
HEALTHIER AND STRONGER.



...IT'S LIKE GIVING THEM A
'MAGIC POTION' FOR FISHY
HEALTH. IT BOOSTS THEIR
IMMUNE SYSTEM AND ENERGY
AND EVEN MAKES THEIR
SCALES SHINY AND STRONG!

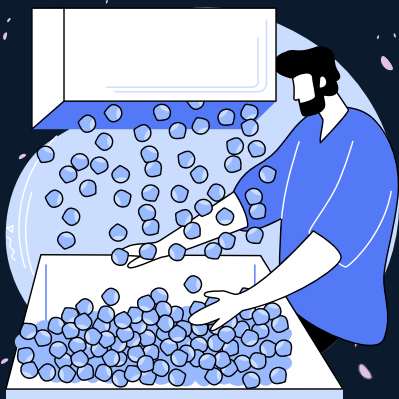
WILL IT REALLY
WORK? I DON'T WANT
ANY SURPRISES!

A MAGIC POTION?
WHAT DOES THAT
MEAN FOR US?

A POTION THAT
MAKES US SUPER FISH?
SIGN ME UP!

CHAPTER 3: TESTING THE SUPER FEED

GEORGE SPRINKLES SOME OF THE SUPER FEED INTO THE TANK, AND THE FISH EAGERLY SWIM UP.



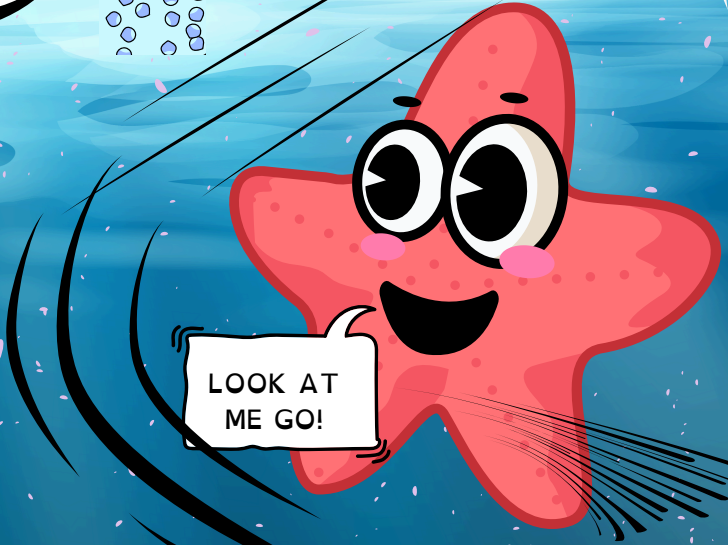
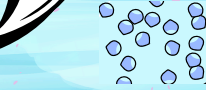
HERE GOES NOTHING!
LET'S SEE WHAT THIS
MAGIC STUFF DOES!

OKAY... AS LONG
AS IT DOESN'T
TASTE FUNNY.

THE FISH GRADUALLY FEEL THE EFFECTS OF THE SUPER FEED. THEY BEGIN TO SWIM FASTER, FEEL STRONGER, AND THEIR SCALES SHINE BRIGHTLY.



WHOA! I FEEL... AMAZING!
LIKE I COULD SWIM FROM
HERE TO THE OCEAN
AND BACK!




LOOK AT
ME GO!




AND I'M NOT DIZZY
ANYMORE! THIS STUFF
REALLY WORKS!

CHAPTER 4: FISHY SUPERPOWERS & ONE HEALTH


DR CLARA EXPLAINS
TO THE FISH WHY THIS
FEED IS SO BENEFICIAL.



YOUR NEW FEED IS PART OF A
HEALTHY ECOSYSTEM APPROACH
WE CALL 'ONE HEALTH.' IT'S NOT
JUST GOOD FOR YOU, BUT IT'S
ALSO SAFE FOR THE ENVIRONMENT!



ONE HEALTH?
WHAT DOES THAT
MEAN?

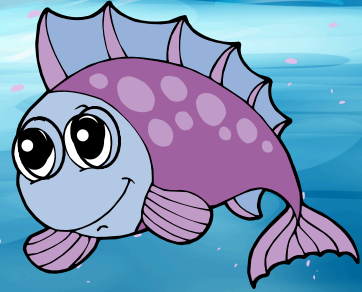


IT MEANS TAKING CARE OF
EVERYONE—ANIMALS, HUMANS,
AND NATURE. IF YOU'RE
HEALTHY, THAT HELPS KEEP
THE WHOLE FARM AND EVEN
THE ENVIRONMENT SAFE.

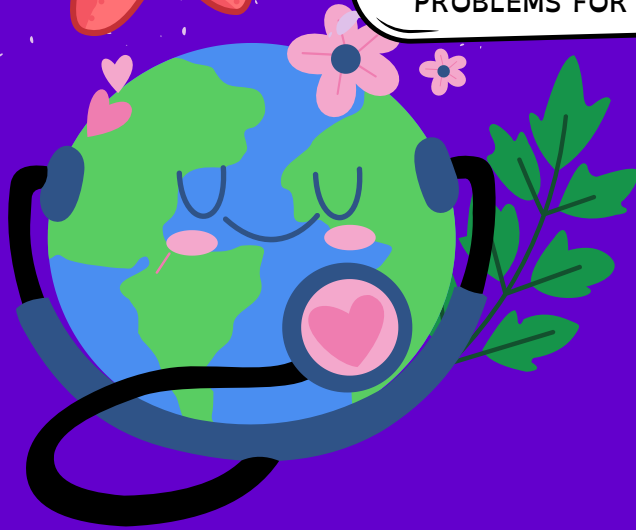
THE FISH LISTEN, IMPRESSED
AND INTERESTED.



SO BY EATING THIS
FOOD, WE'RE DOING
SOMETHING GOOD FOR
THE WHOLE WORLD?



EXACTLY! KEEPING YOU
STRONG AND HEALTHY MEANS
LESS MEDICINE AND FEWER
PROBLEMS FOR EVERYONE.



CHAPTER 5: A PEEK INTO THE AQUACULTURE WORLD

THE FISH LEARN MORE ABOUT AQUACULTURE AND HOW THEY'RE PART OF SOMETHING BIGGER THAN JUST A FISH TANK.

BIG



YOU GUYS ARE PART OF MY FISH FARM BUT ALSO PART OF A BIG IDEA CALLED 'AQUACULTURE.' THIS IS HOW WE GROW FISH TO FEED PEOPLE AROUND THE WORLD.

IN A WAY, YES! YOU PROVIDE A HEALTHY FOOD SOURCE FOR PEOPLE, AND WITH THIS NEW FEED, YOU'LL BE THE HEALTHIEST FISH AROUND.

SO... WE'RE KIND OF LIKE SUPERHEROES FOR PEOPLE, TOO?

WOW! THAT'S A BIG RESPONSIBILITY! WE'VE GOT TO STAY STRONG AND HEALTHY!

CHAPTER 6: TAKING CARE OF OUR PLANET

THE FISH OVERHEARS GEORGE AND DR CLARA DISCUSSING THE IMPORTANCE OF SUSTAINABLE PRACTICES.

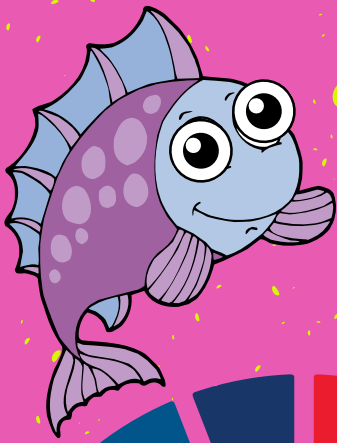


WITH THIS NEW FEED, I CAN MAKE SURE WE'RE PROTECTING THE ENVIRONMENT. LESS WASTE, LESS POLLUTION —JUST HEALTHY FISH.

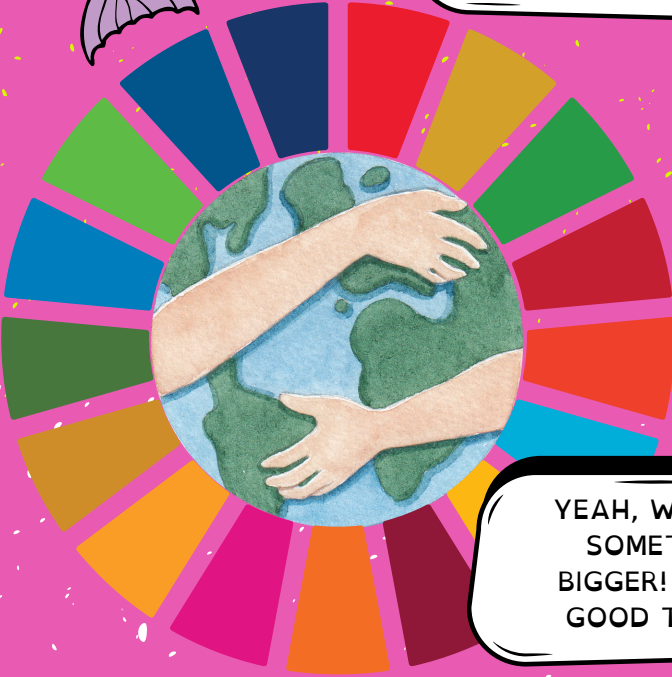
RIGHT, GEORGE! SUSTAINABLE FISH FARMING IS BETTER FOR THE PLANET, TOO.



THE FISH CHAT ABOUT WHAT THEY'VE LEARNED AND THEY FEEL PROUD, REALISING THEY PLAY A ROLE IN FEEDING OTHERS.



SO, THIS ISN'T JUST ABOUT US. IT'S ABOUT KEEPING THE WHOLE WATER CLEAN AND SAFE FOR EVERYONE




YEAH, WE'RE PART OF SOMETHING MUCH BIGGER! AND IT FEELS GOOD TO HELP OUT.




WE CAN SWIM HAPPILY, REALISING WE'RE NOW "SUPER FISH" IN MORE WAYS THAN ONE.



EPILOGUE: FINLEY, BUBBLES, AND STELLA'S MESSAGE TO KIDS



HEY, KIDS! EATING THE RIGHT
FOOD CAN HELP YOU GROW BIG
AND STRONG—JUST LIKE US!



AND BY MAKING GOOD
CHOICES, YOU'RE HELPING THE
PLANET STAY HEALTHY.



SO REMEMBER, BEING
HEALTHY ISN'T JUST ABOUT
YOU; IT'S ABOUT TAKING
CARE OF THE WHOLE
WORLD!

THE END

This artwork is based upon work from COST Action 'Enhancing knowledge of BIOMolecular solutions for the well-being of European AQUAculture sector (BIOAQUA) - CA22160', supported by COST (European Cooperation in Science and Technology).



AGRICULTURAL UNIVERSITY OF ATHENS

UCD DUBLIN

VETERINARY RESEARCH INSTITUTE

ONE HEALTH INSTITUTE

TURKALMAN UNIVERSTESI
TÜRKİŞ-DEUTSCHE UNIVERSITÄT

CCMAR
Algarve

VETERINARY RESEARCH INSTITUTE
Government of The Punjab

LOMARTOV
[Applied Innovation Engineering]

INAT

GREEK SCIENTISTS SOCIETY

PORTO

ICBAS
SCHOOL OF MEDICINE AND BIOMEDICAL SCIENCES

CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

UNIVERSITY OF HAIFA

UNIVERSITY OF STIRLING



BIOAQUA

COST is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation.



Title	Fish Superpowers!
Authors(s)	Nag, Rajat, WG3 members of BioAqua
Publication date	2025-08-11
Publication information	Nag, Rajat, and WG3 members of BioAqua. "Fish Superpowers!" University College Dublin. School of Biosystems and Food Engineering, August 11, 2025.
Publisher	University College Dublin. School of Biosystems and Food Engineering
Item record/more information	http://hdl.handle.net/10197/28717

Downloaded 2026-07-06 08:04:35

The UCD community has made this article openly available. Please share how this access benefits you. Your story matters! (@ucd_oa)



© Some rights reserved. For more information