

# STEM HEROES



**A COLOURING BOOK FOR  
KIDS OF ALL AGES**



**AARTI SHENOY**  
**BIOENGINEER, INDIA/USA**



**AARTI STUDIES MATERIALS AND ALSO HELPS MAKE BETTER MEDICAL DEVICES  
TO IMPROVE PEOPLE'S LIVES.**

**ARTIST: MIKE GARCIA, MEXICO**

# **FUNG FUN MAN**

**INSTRUCTOR, SINGAPORE**



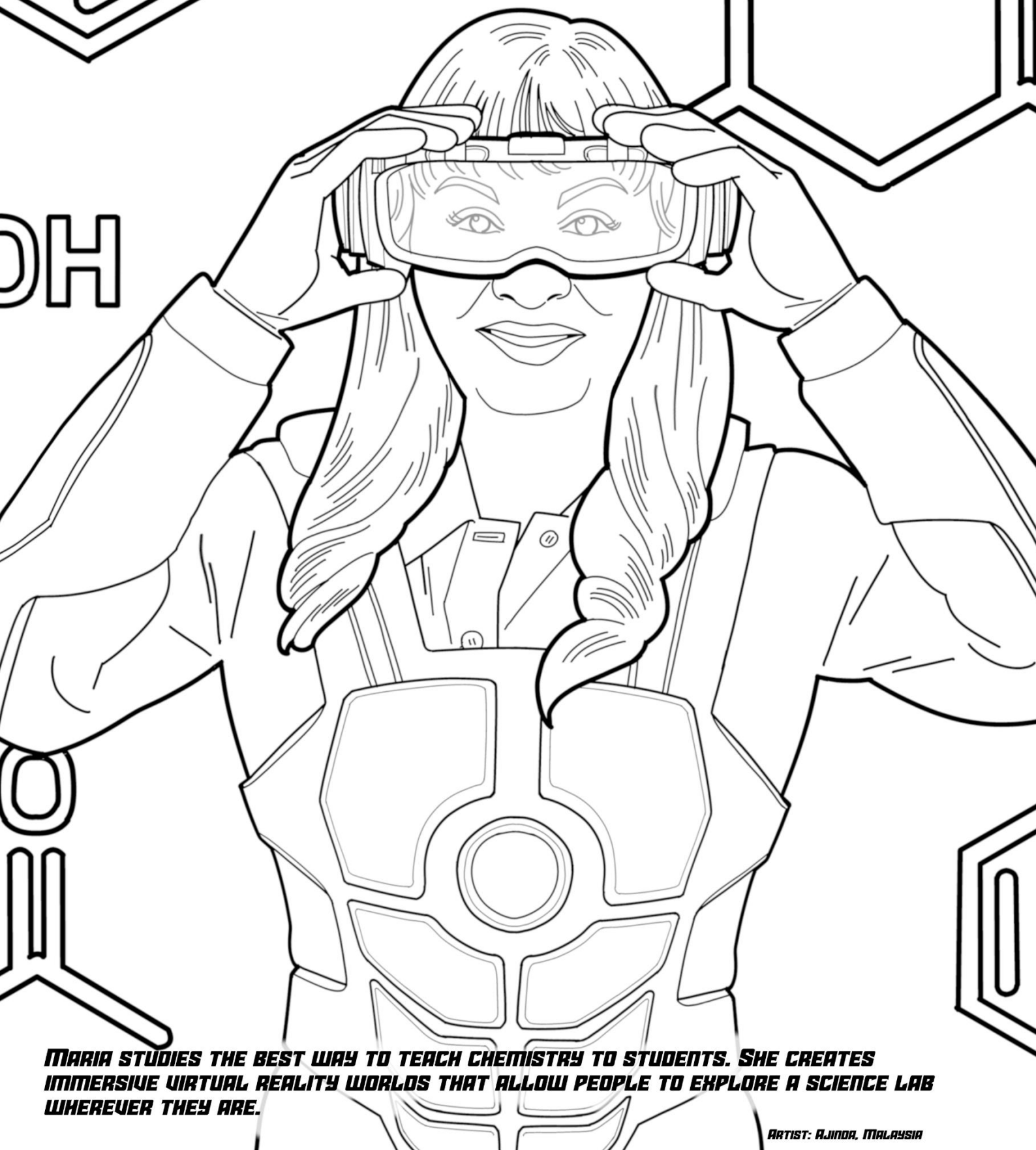
**FUN MAN LOVES SHOWING HOW CHEMISTRY WORKS IN EVERYONE'S DAILY LIVES.  
CHEMISTRY IS ALIVE EVERYWHERE, EVEN WHEN YOU'RE COOKING DINNER!**

**ARTIST: MIKE GARCIA, MEXICO**



# MARIA GALLARDO-WILLIAMS

TEACHING PROFESSOR, USA



**MARIA STUDIES THE BEST WAY TO TEACH CHEMISTRY TO STUDENTS. SHE CREATES IMMERSIVE VIRTUAL REALITY WORLDS THAT ALLOW PEOPLE TO EXPLORE A SCIENCE LAB WHEREVER THEY ARE.**

ARTIST: AJINDA, MALAYSIA

# **TALIA ENRIGHT**

**RADIOCHEMIST, AUSTRALIA**



**TALIA GETS UP EARLY IN THE MORNING TO SPEED UP PARTICLES AND MAKE RADIOACTIVE MEDICINES THAT HELP DOCTORS FIGHT CANCER.**

# **ALYSSA PAPARELLA**

**GRADUATE STUDENT, USA**

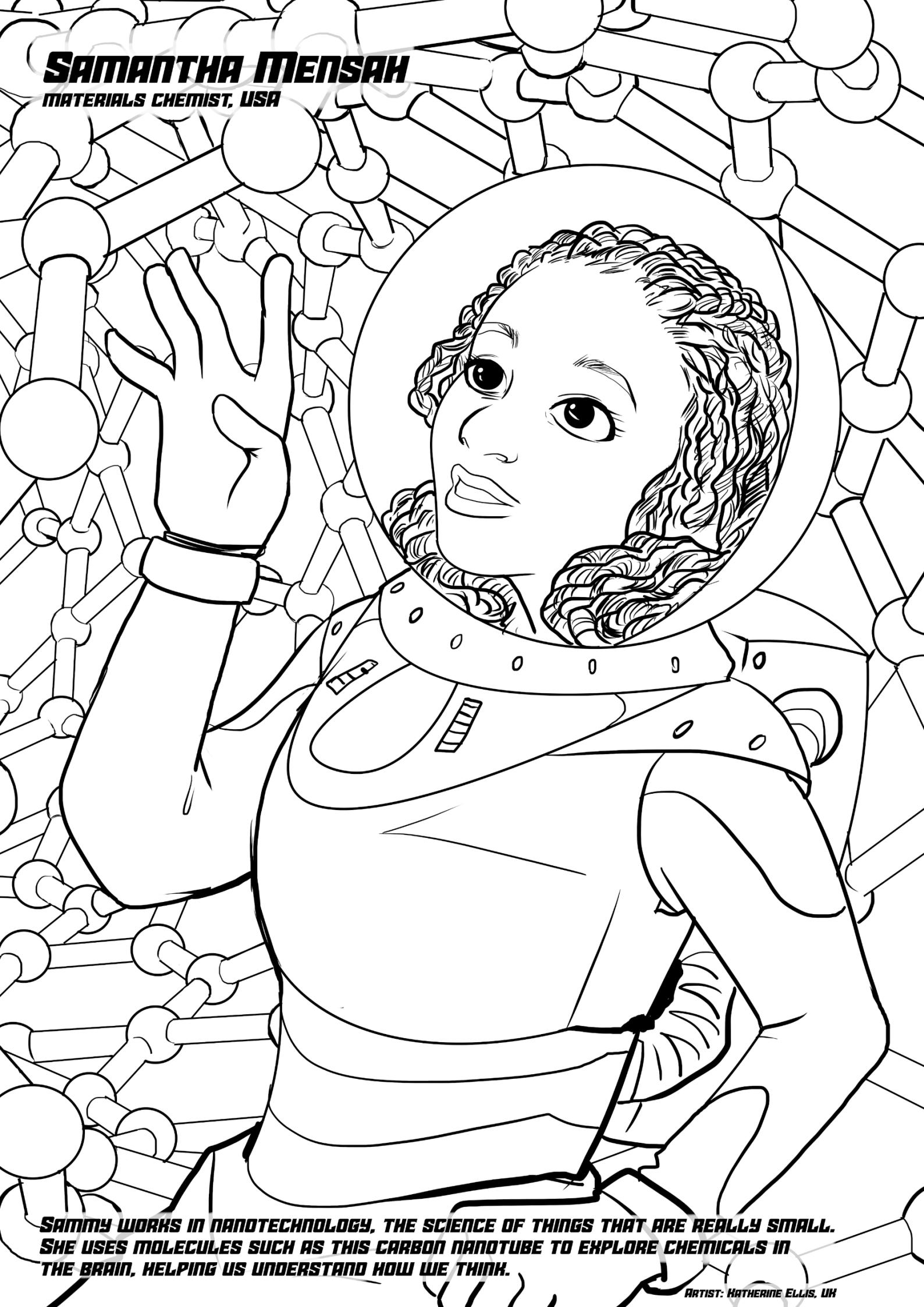


**ALYSSA STUDIES CANCER AND CELL BIOLOGY, AND HAS STUDIED *C. ELGANS*, A ROUNDWORM ABOUT 1MM LONG, UNDER A MICROSCOPE. SHE IS A DISABLED SCIENTIST WHO BELIEVES EVERYONE BELONGS IN THE LAB.**

**ARTIST: NICO TORAN, UK**

# **SAMANTHA MENSAH**

**MATERIALS CHEMIST, USA**



**SAMMY WORKS IN NANOTECHNOLOGY, THE SCIENCE OF THINGS THAT ARE REALLY SMALL. SHE USES MOLECULES SUCH AS THIS CARBON NANOTUBE TO EXPLORE CHEMICALS IN THE BRAIN, HELPING US UNDERSTAND HOW WE THINK.**

**ARTIST: KATHERINE ELLIS, UH**



# JOANNA PAJDEK

PROCESS CHEMIST, IRELAND



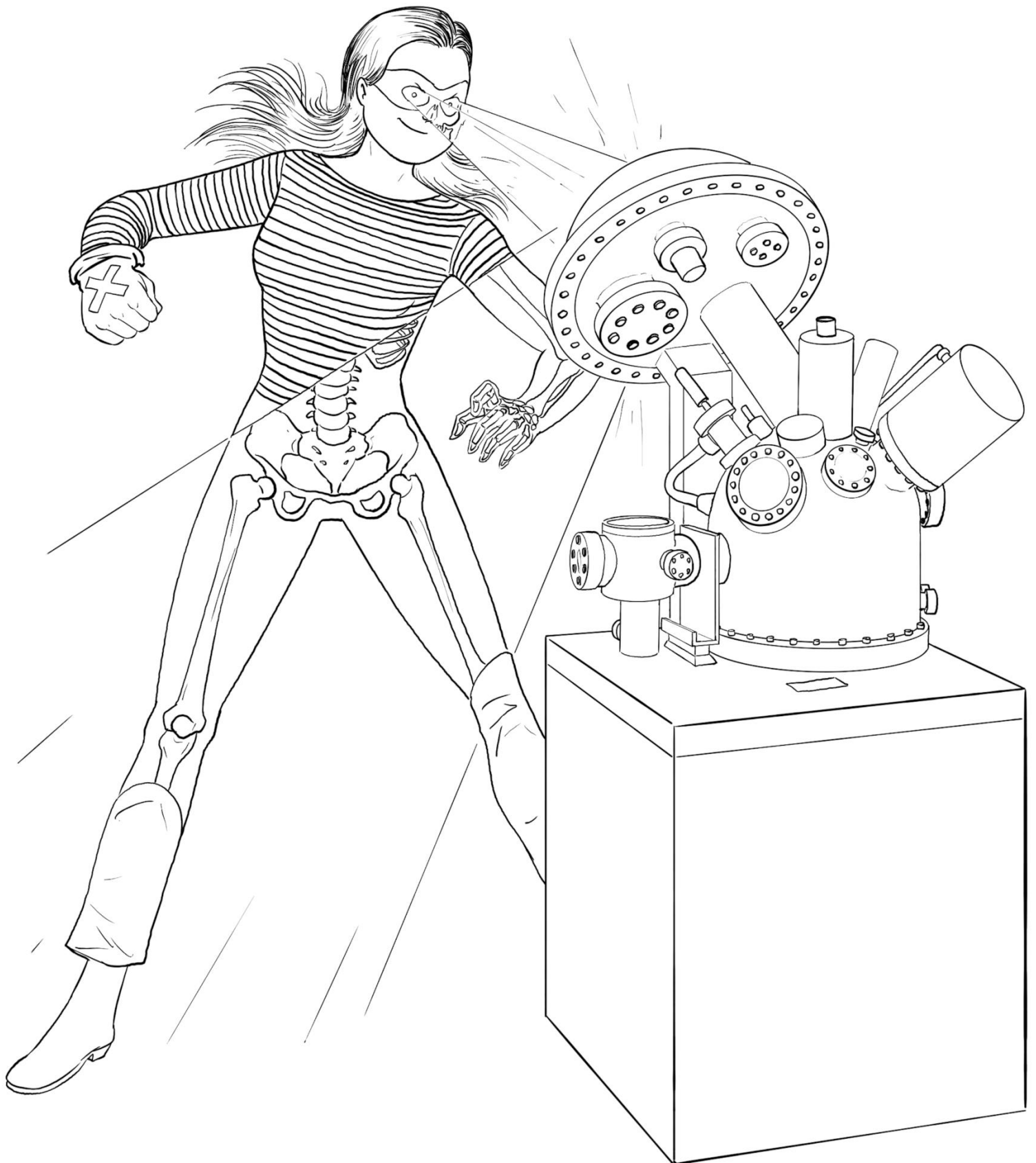
**JOANNA IS FROM POLAND. SHE HAS LIVED IN FOUR COUNTRIES AND SPEAKS SEVERAL LANGUAGES, BUT CHEMISTRY IS THE ONE THING THAT NEVER CHANGES.**

ARTIST: ANTHOINE HEY, NIGERIA



# **ANNA REGOUTZ**

**MATERIALS CHEMIST, UK**



**ANNA USES HIGH TECH MACHINES THAT FIRE X-RAYS TO LOOK CLOSER AT ELECTRONICS TO UNDERSTAND HOW THEY WORK.**

**ARTIST: NICO TORAN, UK**

# CÉSAR URBINA-BLANCO

SUSTAINABILITY CHEMIST, BELGIUM



**ORIGINALLY FROM VENEZUELA, CÉSAR KNOWS HOW IMPORTANT IT IS FOR SCIENTISTS AROUND THE WORLD TO WORK TOGETHER. BY COMBINING THEIR POWERS, THEY CAN BE AN EVEN MIGHTIER FORCE FOR GOOD.**

ARTIST: MIKE GARCIA, MEXICO

# **KUMUDIKA DE SILVA**

**IMMUNOLOGIST, AUSTRALIA**



**VACCINES KEEP US HEALTHY. THEY HELP OUR CELLS REMEMBER HOW TO ATTACK BUGS THAT MAKE US ILL. KUMI LOOKS AT HOW TO CREATE AND GIVE VACCINES TO FARM ANIMALS.**

**ARTIST: ALEX GREEN, UK**

**RACHEL WEISS**  
**CHEMISTRY STUDENT, USA**



**RACHEL IS A STUDENT. WHEN SHE GRADUATES, SHE WANTS TO TEACH OTHERS ABOUT THE WONDERS OF CHEMISTRY. SHE LOVES WORKING IN THE LAB, WHERE SHE MAKES NANOPARTICLES THAT GLOW UNDER ULTRAVIOLET LIGHT!**

# JENNIFER PAXTON

TISSUE ENGINEER, UK



**JENNIFER IS ANATOMIST AND TISSUE ENGINEER. SHE INVESTIGATES HOW THE BODY WORKS, AND USES HER KNOWLEDGE OF WHAT WE LOOK LIKE INSIDE TO BUILD NEW BODY PARTS IN HER LABORATORY.**

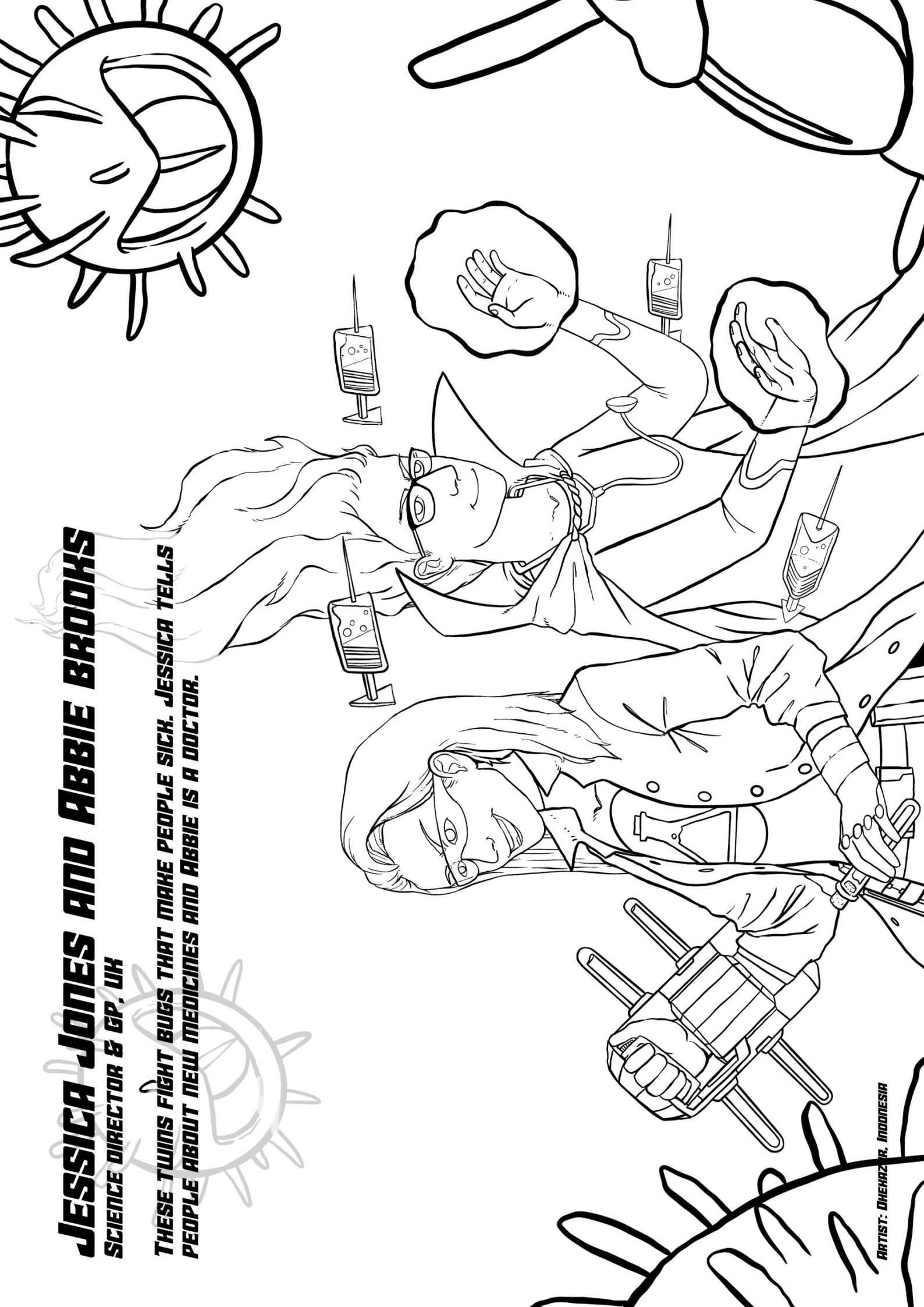
ARTIST: DHEHAZAR, INDONESIA



# JESSICA JONES AND ABBIE BROOKS

SCIENCE DIRECTOR & GP, UK

THESE TWINS FIGHT BUGS THAT MAKE PEOPLE SICK. JESSICA TELLS PEOPLE ABOUT NEW MEDICINES AND ABBIE IS A DOCTOR.



# KAT DAY

SCIENCE WRITER, UK

**KAT EXPLAINS TRICKY CHEMISTRY IDEAS AS SIMPLY AS POSSIBLE. THE EXPLOSION IS NOT HER FAULT!**

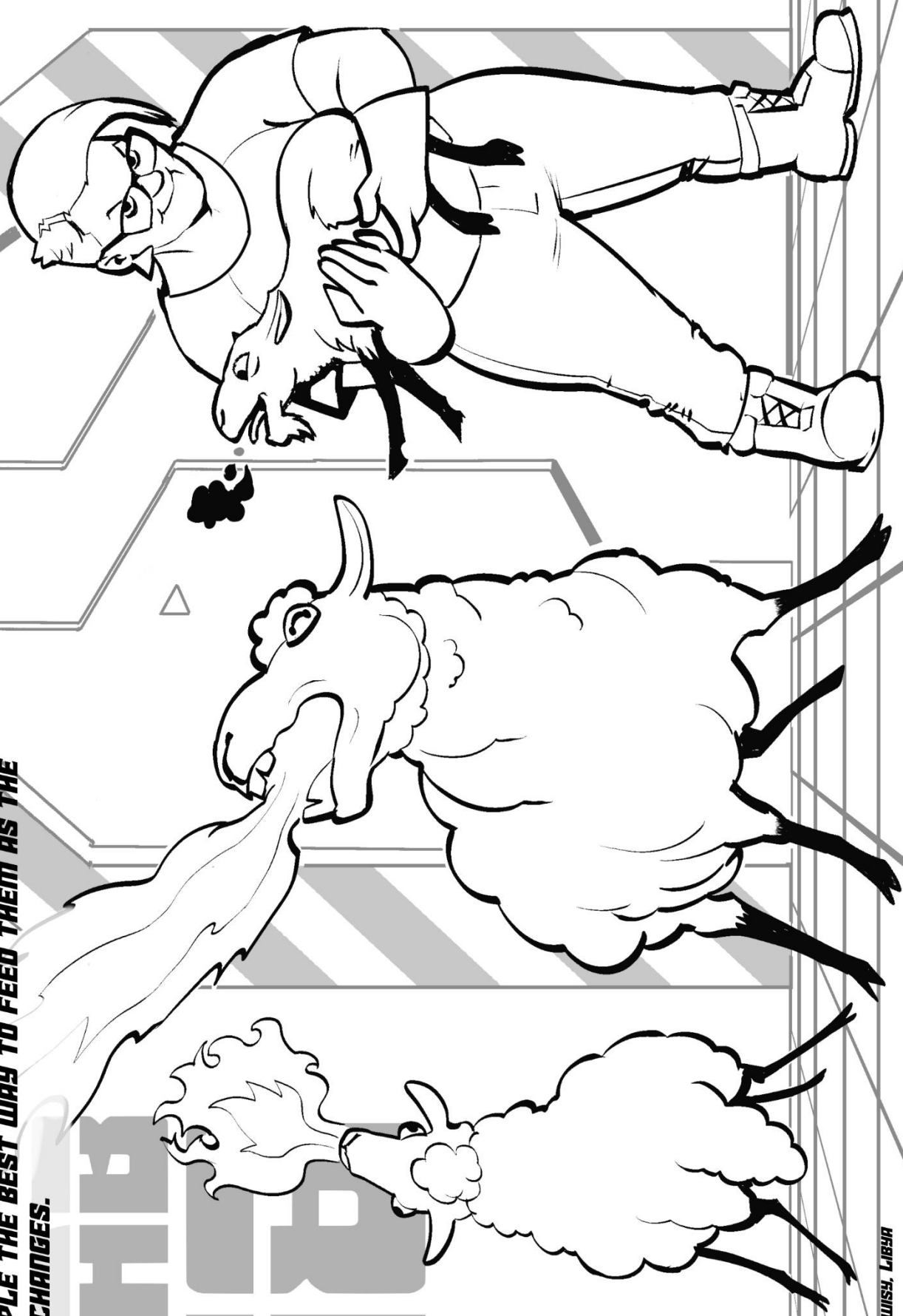


ARTIST: NICO TORAN, UK

# HOLLAND DOUGHERTY

LIVESTOCK SCIENTIST, AUSTRALIA

HOLLAND LOOKS AT HOW ANIMALS GROW SO SHE CAN TELL PEOPLE THE BEST WAY TO FEED THEM AS THE CLIMATE CHANGES.



**KENSHA CLARK**  
ASSISTANT PROFESSOR, USA

**KENSHA STUDIES HOW TO CREATE  
NEW MOLECULES AND FASTER WAYS  
OF MAKING THINGS HAPPEN.**





# **MYRIAM CARLE**

**CHEMICAL EDUCATION RESEARCHER, CANADA**



**MYRIAM LOVES TRYING TO FIGURE OUT HOW THE WORLD WORKS. SHE IS NOT OKAY SOMETIMES BECAUSE OF HER MENTAL HEALTH, BUT WITH THE HELP OF HER FRIENDS AND FAMILY SHE IS ABLE TO KEEP DOING THE THINGS SHE ENJOYS MOST.**

**ARTIST: FRAN DUQUE, COLOMBIA**



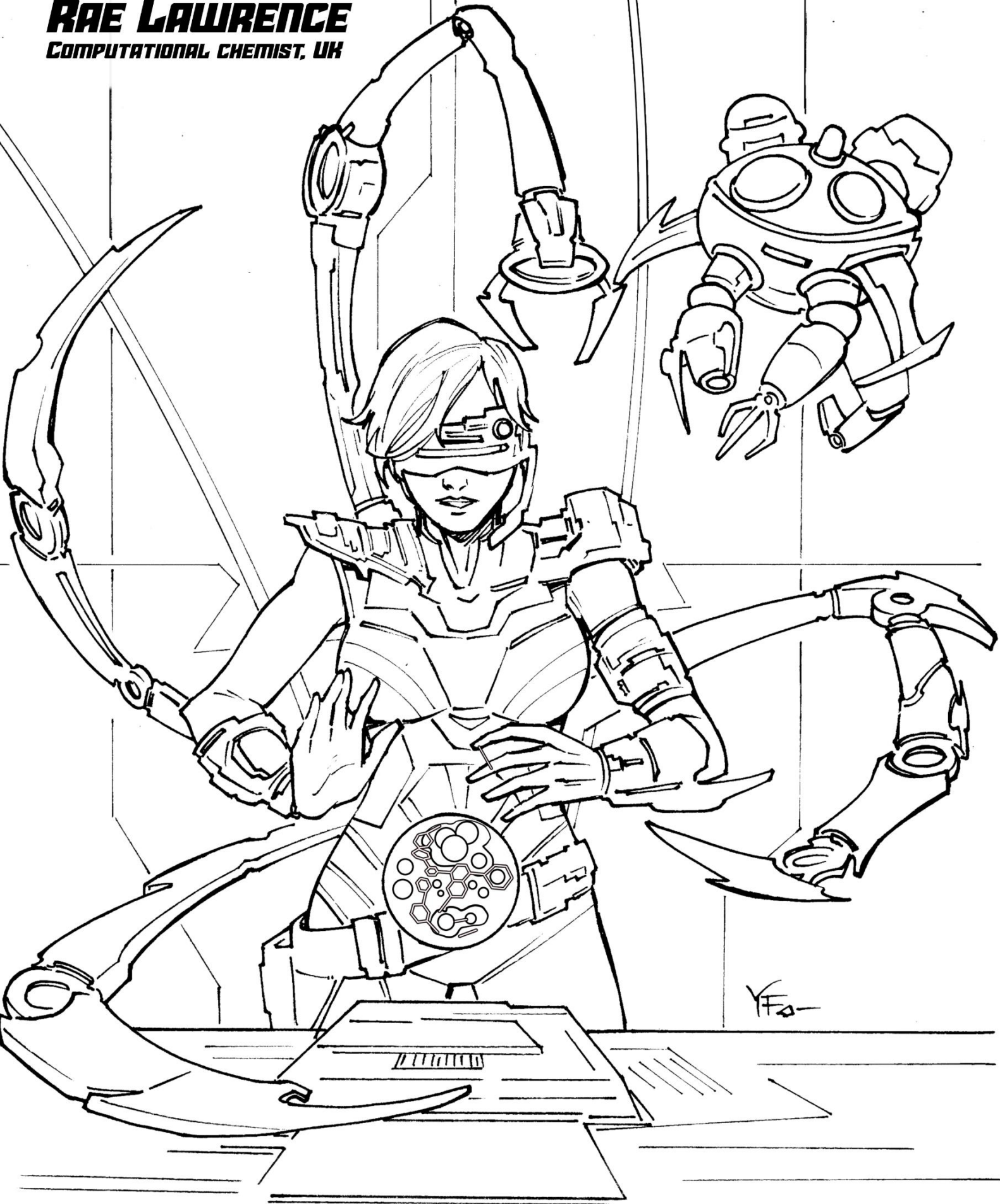
# **GAN SHERMER**

**ORGANIC CHEMIST, UK**



**GAN FINDS NEW AND INTERESTING WAYS OF EXPLAINING SCIENCE TO PEOPLE.  
SHE ALSO LOOKS FOR EASIER WAYS TO MAKE NEW MEDICINES.**

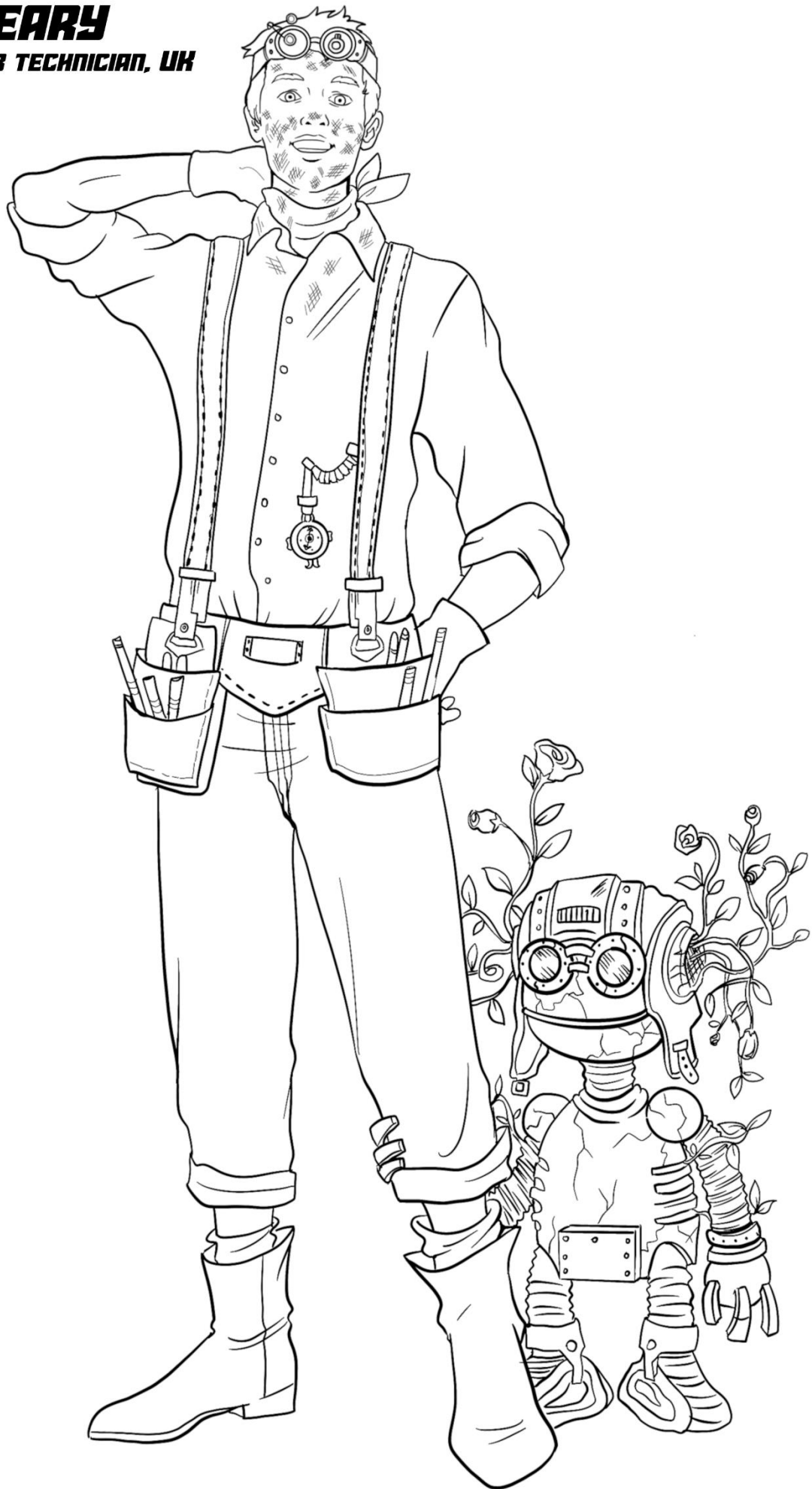
**RAE LAWRENCE**  
**COMPUTATIONAL CHEMIST, UK**



**RAE'S WORK COMBINES COMPUTERS, CHEMISTRY AND BIOLOGY. SHE USES ARTIFICIAL INTELLIGENCE TO TEACH MACHINES HOW TO DISCOVER NEW MEDICINES.**

# **ZACK GEARY**

**DIAGNOSTIC LAB TECHNICIAN, UK**



**ZACK HELPS DOCTORS FIND OUT WHAT'S WRONG WITH SICK PEOPLE TO MAKE THEM BETTER. HE WAS BORN WITH ADHD, WHICH MEANT IT WAS HARD FOR HIM TO PAY ATTENTION AT SCHOOL, BUT HE LOVES SCIENCE SO KEEPS ON TRYING!**





# TWENTY REAL SCIENTISTS AS HEROES TO COLOUR AND KEEP!

**ROTTI SHEYIN**  
 Immunologist, Israel



After years of research, she has now found the way to cure HIV. She is now working to bring her cure to the world.

**FUNG FUN MAH**  
 Immunologist, Hong Kong



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**THOMAS GILLARD-LLANARIS**  
 Immunologist, Portugal



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**TALIA ERDMYT**  
 Immunologist, Belarus



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**ALICE PIGNARELLA**  
 Immunologist, Italy



After years of research, she has now found the way to cure HIV. She is now working to bring her cure to the world.

**SARANTON MIRONOV**  
 Immunologist, Russia



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**JOSUVA MALDONADO**  
 Immunologist, Mexico



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**RENA REBUTZ**  
 Immunologist, France



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**CÉSAR URRUTIA-BLANCO**  
 Immunologist, Spain



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**MATTHEO DE SILAN**  
 Immunologist, Italy



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**RACHEL LIBERS**  
 Immunologist, Canada



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**JENNIFER PANTON**  
 Immunologist, UK



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**JEREMY JONES AND RENE ANTON**  
 Immunologists, USA



They have spent years studying the immune system and have now found a way to cure HIV. They are now working to bring their cure to the world.

**NET DOD**  
 Immunologist, USA



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**MELISSA DRISCOLL**  
 Immunologist, USA



She has spent years studying the immune system and has now found a way to cure HIV. She is now working to bring her cure to the world.

**MARCO CLAVI**  
 Immunologist, Italy



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**THOMAS COME**  
 Immunologist, France



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**DAVE SWENSON**  
 Immunologist, USA



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.

**PAUL LAWRENCE**  
 Immunologist, USA



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**ZACH BERRY**  
 Immunologist, USA



He has spent years studying the immune system and has now found a way to cure HIV. He is now working to bring his cure to the world.