





'HELMINTHS: THE SECRET WORLD OF PARASITIC WORMS' IS ® WELLCOME CENTRE FOR INTEGRATIVE PARASITOLOGY, JAMIE HALL AND EDWARD ROSS, 2020.

A COMIC WRITTEN BY JAMIE HALL AND EDWARD ROSS. ILLUSTRATED BY EDWARD ROSS. SCIENTIFIC ADVISORS: DR. POPPY LAMBERTON AND DR. RICK MAIZELS.

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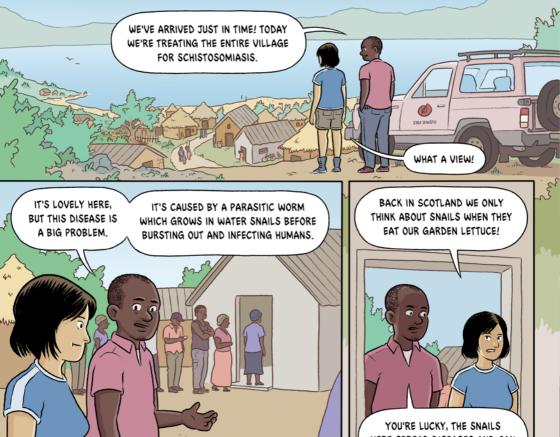
PUBLISHED BY WELLCOME CENTRE FOR INTEGRATIVE PARASITOLOGY, SIR GRAEME DAVIES BUILDING, UNIVERSITY OF GLASGOW, 120 UNIVERSITY PLACE, GLASGOW G12 8TA.

PRINTED ON 100% RECYCLED PAPER.













MAKE PEOPLE REALLY ILL.

PEOPLE ARE INFECTED WITH SCHISTO WORLDWIDE, BUT THE VAST MAJORITY OF THESE ARE IN SUB-SAHARAN AFRICA.

VILLAGES ROUND HERE, ALMOST EVERYONE HAS IT AT SOME POINT OR OTHER. THIS IS NAMAZZI, NO MATTER WHAT I TELL HER SHE KEEPS SWIMMING IN THE LAKE.











FOR KIDS LIKE NAMAZZI, SCHISTOSOMIASIS
OFTEN CAUSES DIARRHOEA AND STOMACH ACHE.
IT TAKES THEM OUT OF SCHOOL AND LEAVES
THEM TIRED AND ILL.

OVER A LONG TIME THE WORMS' EGGS CAN BUILD UP IN THE BODY, CAUSING EVEN WORSE PROBLEMS. BUT THAT'S NOT GOING
TO HAPPEN TO YOU NAMAZZI,
BECAUSE YOU'RE GOING TO
TAKE YOUR TREATMENT AND
STAY OUT OF THE WATER,
AREN'T YOU?



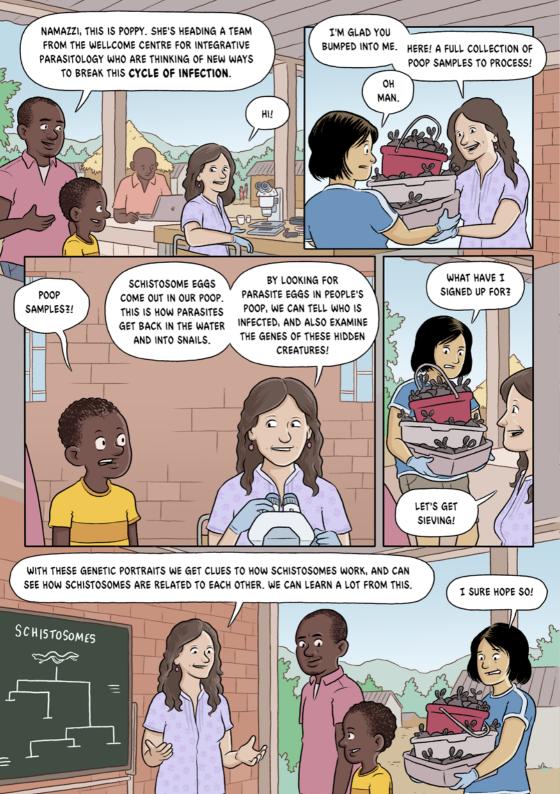
THE SNAIL MAN!















THE THING IS, EACH OF US HAS DIFFERENT GENES AND DIFFERENT MICROBES LIVING IN OUR GUTS.

MM/mm/n

Moure

SOME PEOPLE WILL ABSORB MOST OF THE MEDICINE, OTHERS ONLY A BIT.

SO PARASITES GET DIFFERENT DOSES DEPENDING ON WHO THEY'VE INFECTED?

YES! AND IF IT'S NOT ENOUGH AND THE PARASITES SURVIVE, IT GIVES THEM A CHANCE TO EVOLVE RESISTANCE TO OUR MEDICINES.



THIS IS WHY WE'RE LOOKING

IT ALSO DEPENDS ON WHAT YOU'VE RECENTLY EATEN.

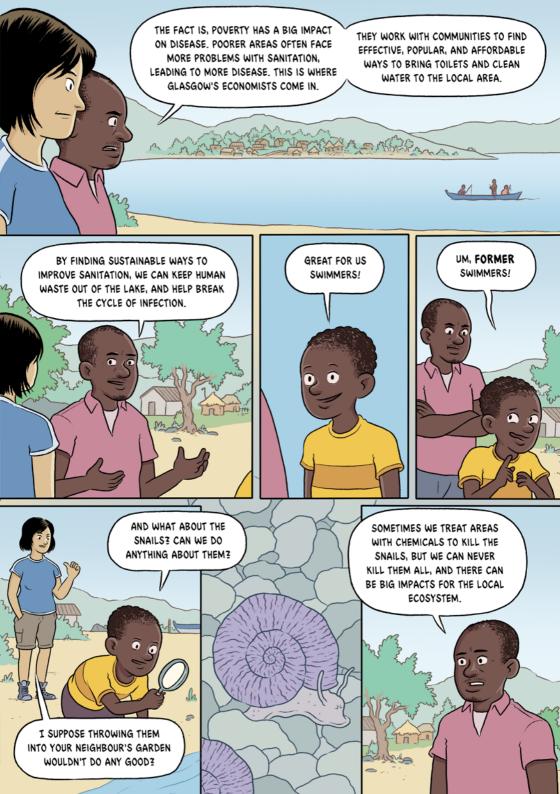


BY COMPARING DIFFERENT INFECTIONS WE CAN GET CLUES ABOUT HOW THEY ARE SPREADING AND EVOLVING.

DON'T WORRY JANE. WE'RE WORKING ON WAYS TO TEST FOR PARASITES BY TAKING URINE SAMPLES, MUCH LESS FUSS!









IF WE CAN COMBINE MORE EFFECTIVE
TREATMENTS WITH CHANGING BEHAVIOURS AND
BETTER SANITATION TO BREAK THE CYCLE, WE'LL
CHANGE PEOPLE'S LIVES FOR THE BETTER.

AND KILL OFF THESE NASTY PARASITES ONCE AND FOR ALL!



IT'S TRUE, PARASITIC WORMS
ARE A NIGHTMARE. BUT THEY'VE
BEEN WITH US SINCE THE BEGINNING
OF HUMAN HISTORY...



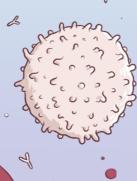
NAMAZZI, THIS IS RICK. WORM-WRANGLER EXTRAORDINAIRE.



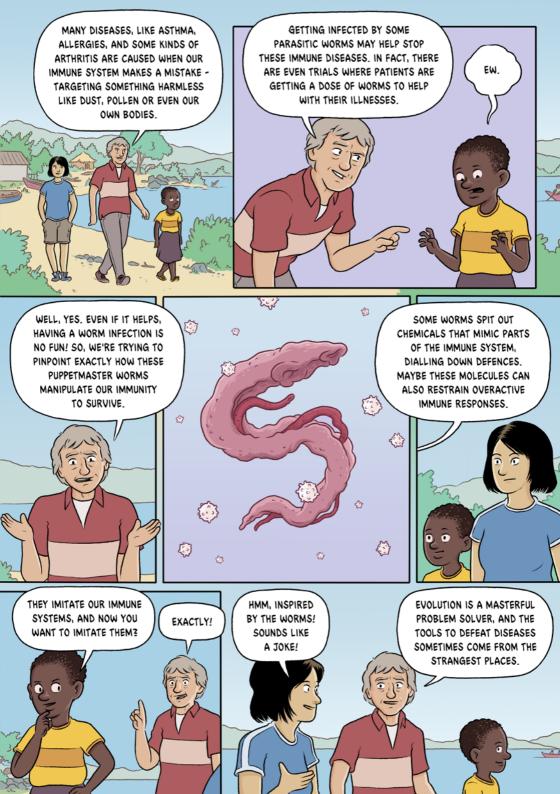


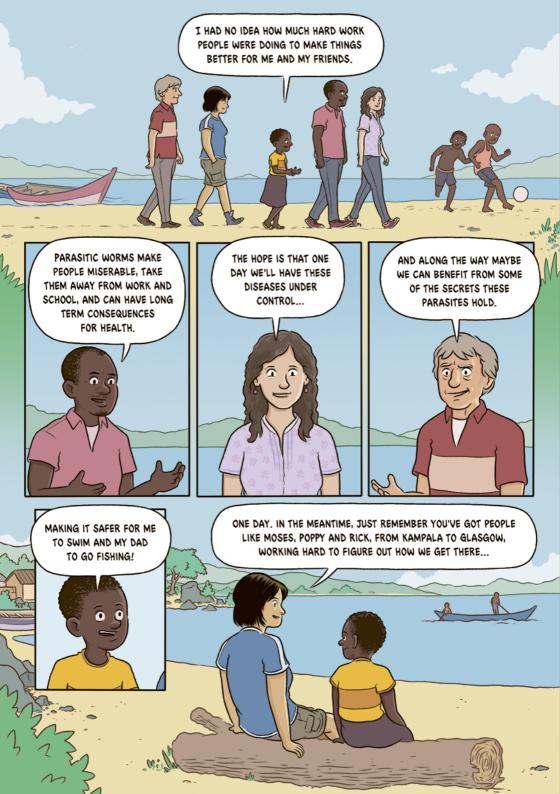
SO WHAT?





SO MAYBE PARASITES CAN TEACH US A THING OR TWO.









THE WELLCOME CENTRE FOR INTEGRATIVE PARASITOLOGY
IS BASED AT THE UNIVERSITY OF GLASGOW. OUR MISSION IS
TO DEVELOP A DEEPER UNDERSTANDING OF PARASITES
IN ORDER TO DEVELOP NEW TREATMENTS.

FOR MORE INFORMATION ABOUT OUR WORK PLEASE VISIT:

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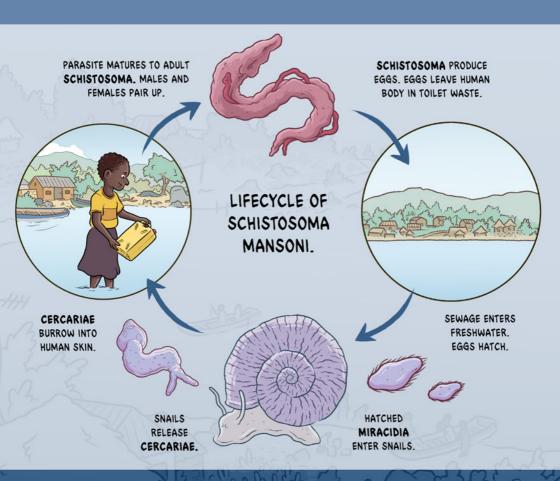
WITH THANKS TO DR. POPPY LAMBERTON, DR. RICK MAIZELS, DR. VICKIE CURTIS AND ALL OF OUR PROOFREADERS FOR THEIR HELP IN MAKING THIS BOOKLET.

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JOIN GLASGOW'S SCIENTISTS AS THEY TRAVEL TO UGANDA TO INVESTIGATE THE SECRETS OF **HELMINTHS**, PARASITIC WORMS THAT CAUSE DISEASE AND ILLNESS AROUND THE WORLD.

PART OF AN AWARD-WINNING SERIES ABOUT PARASITES!





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