MICROPLASTICS





WHAT DOES SCIENCE SAY?

THE BFR SCIENCE COMIC



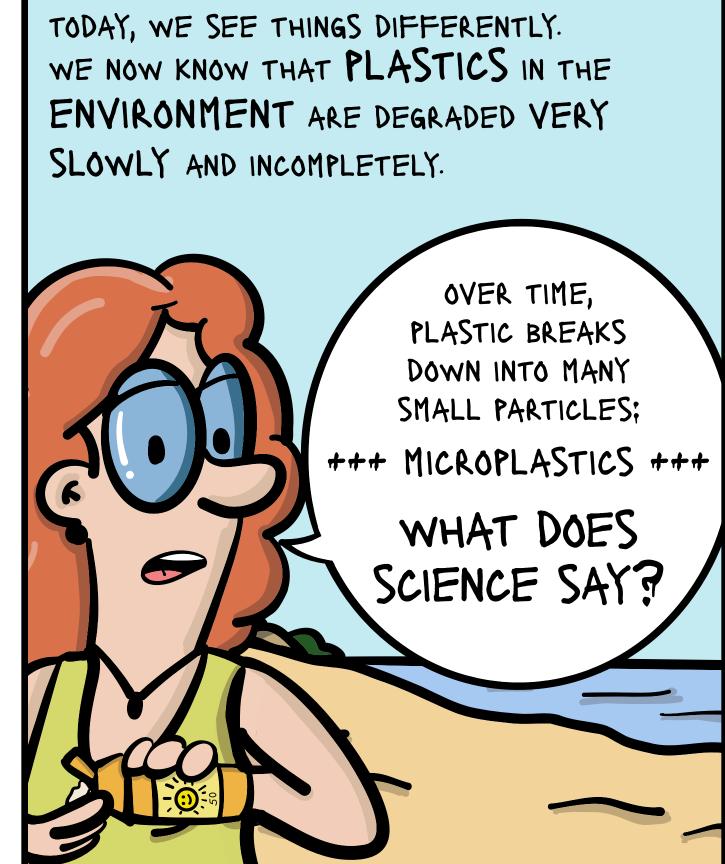


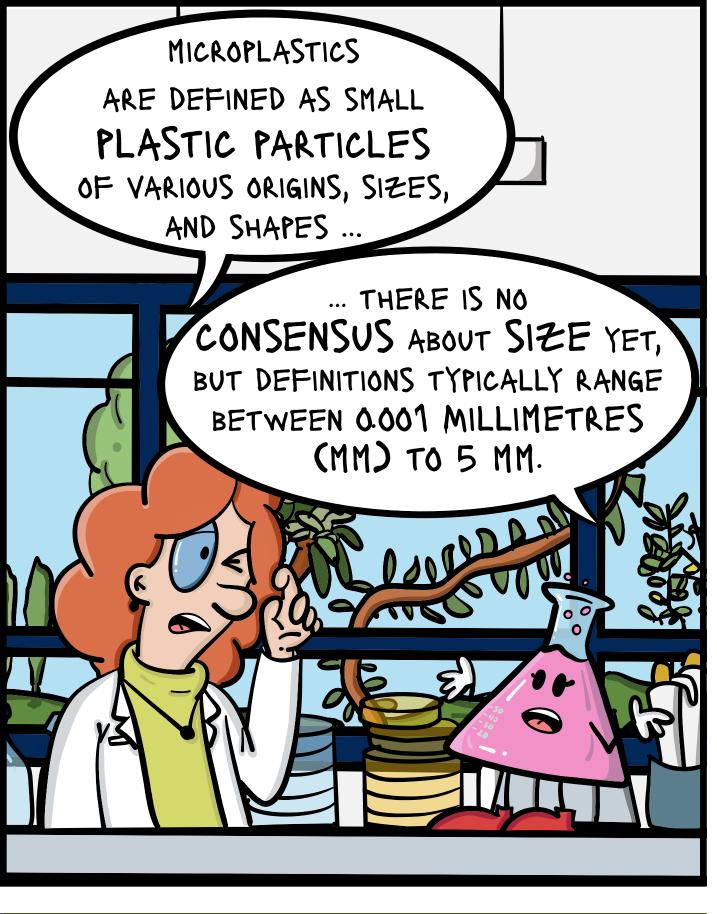
BY USING COTTON CELLULOSE AND CAMPHOR, HYATT DISCOVERED A MOULDABLE PLASTIC THAT COULD IMITATE NATURAL SUBSTANCES LIKE TORTOISE SHELL AND IVORY.

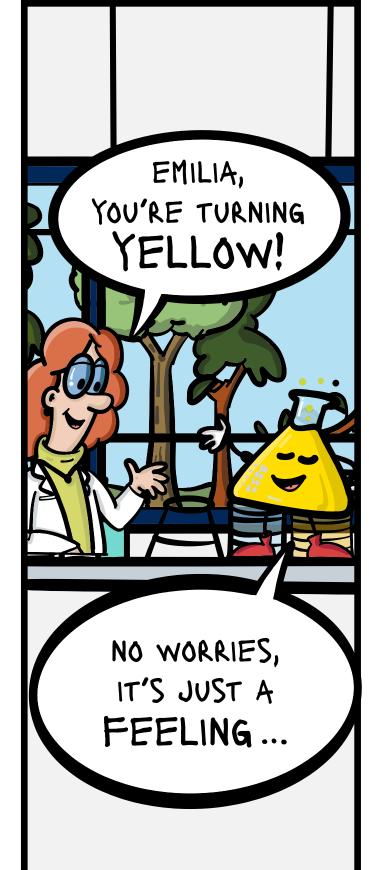


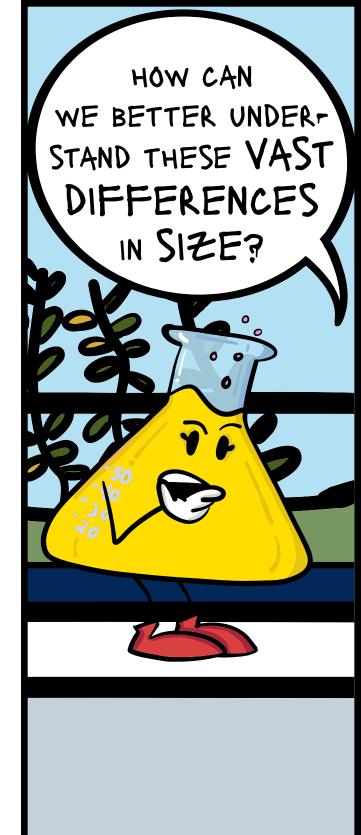
HIS DISCOVERY WAS CONSIDERED REVOLUTIONARY AND WAS ADVERTISED AS 'SALVATION OF THE ENVIRONMENT'.

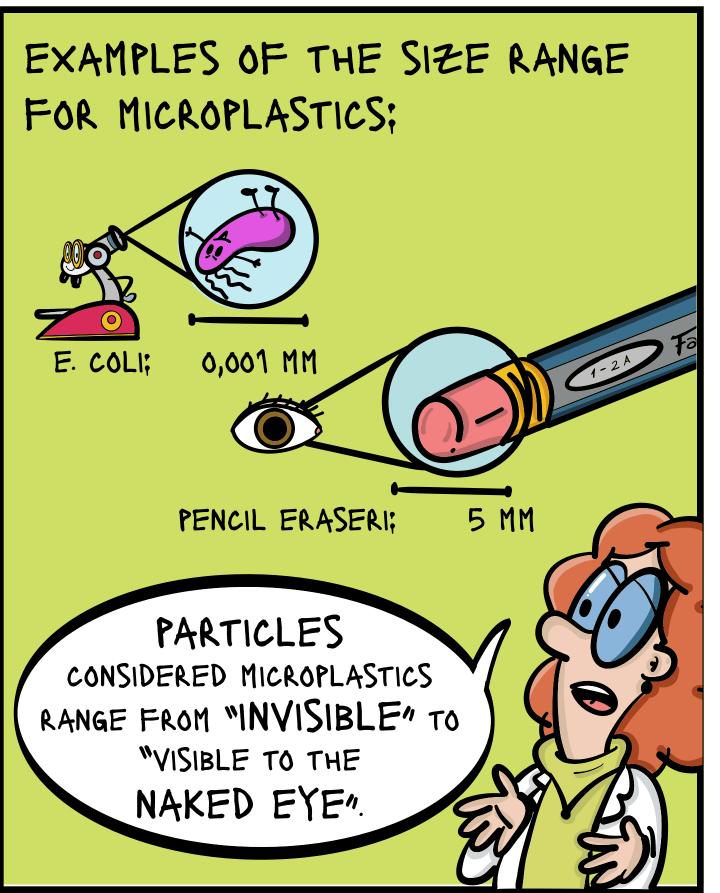




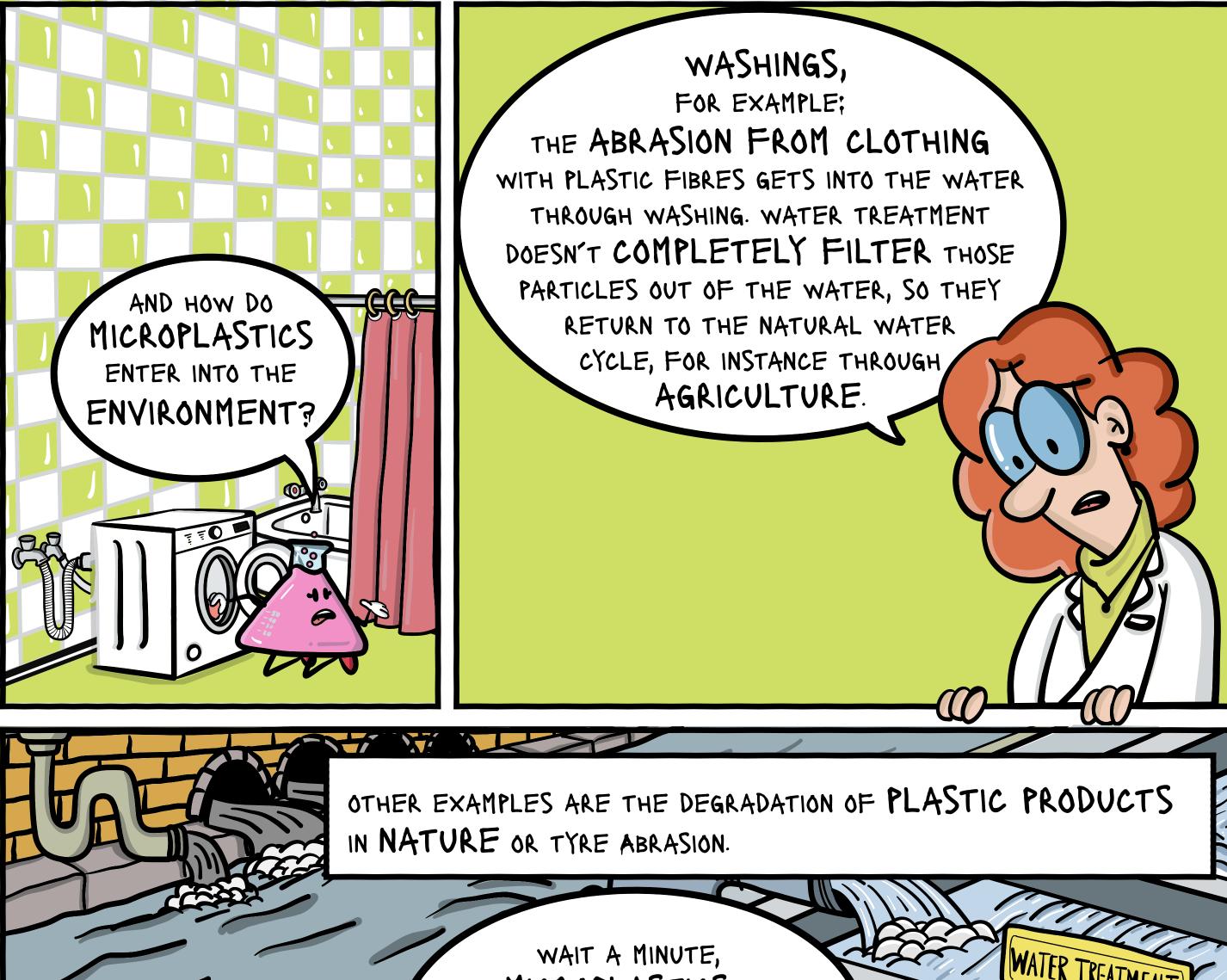


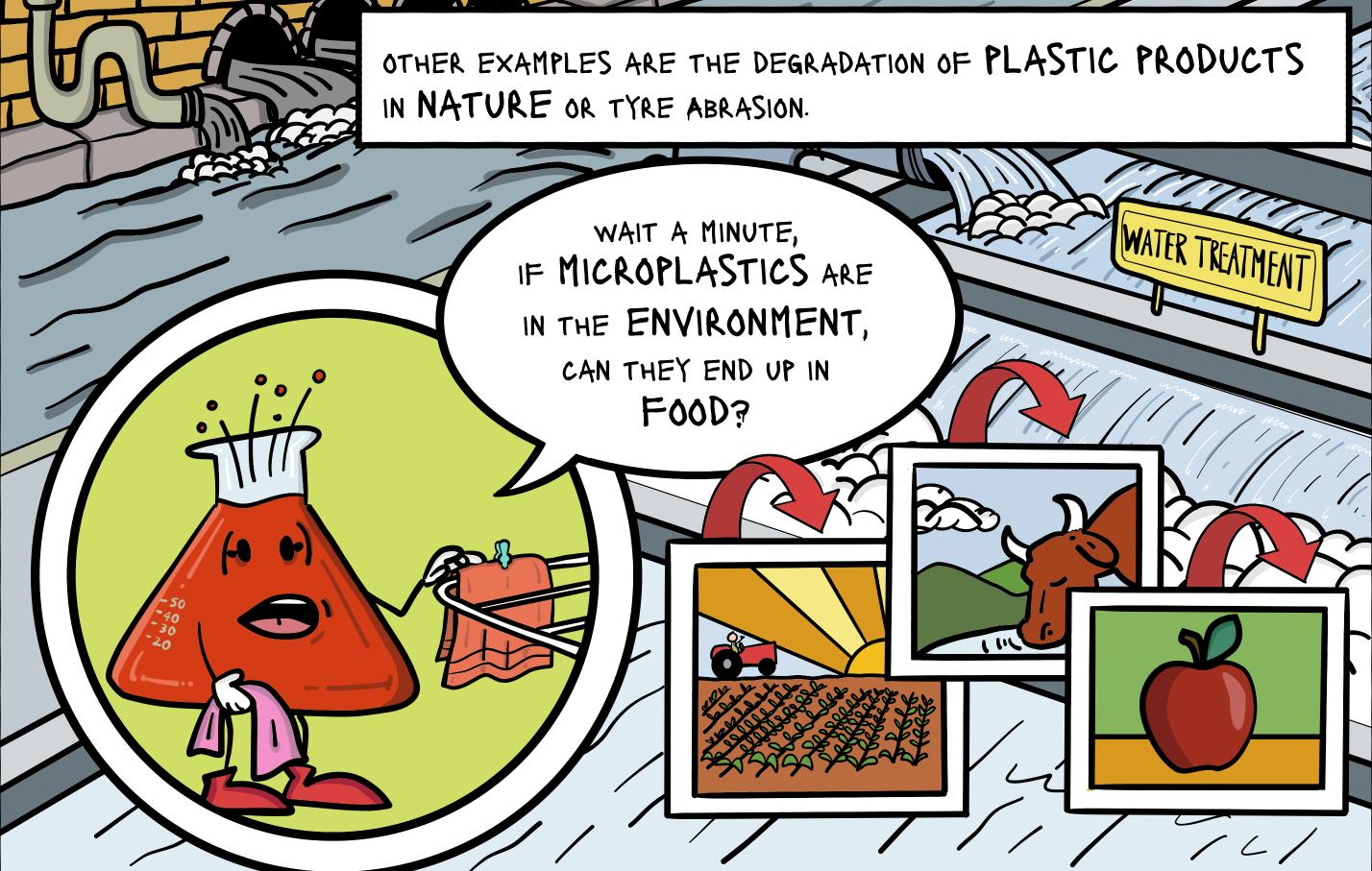




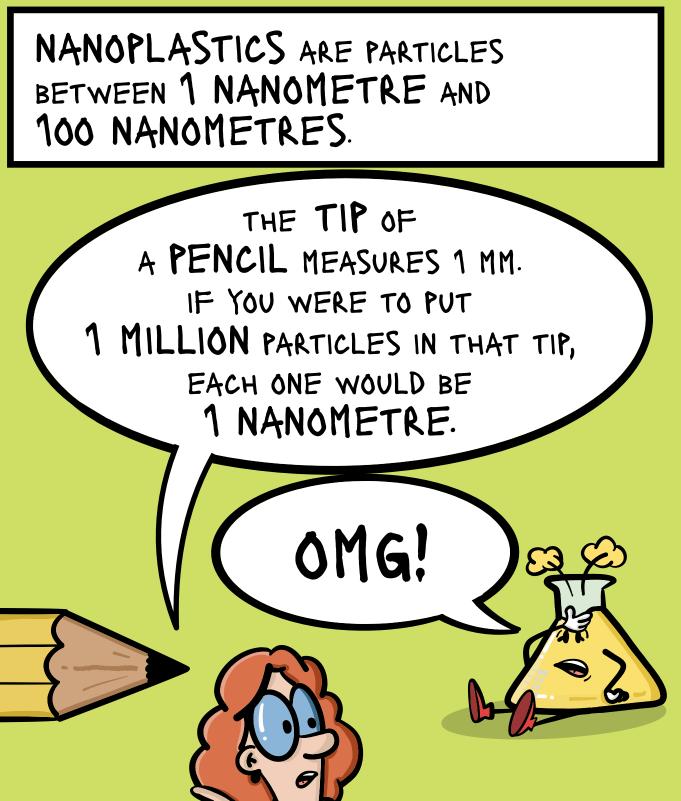


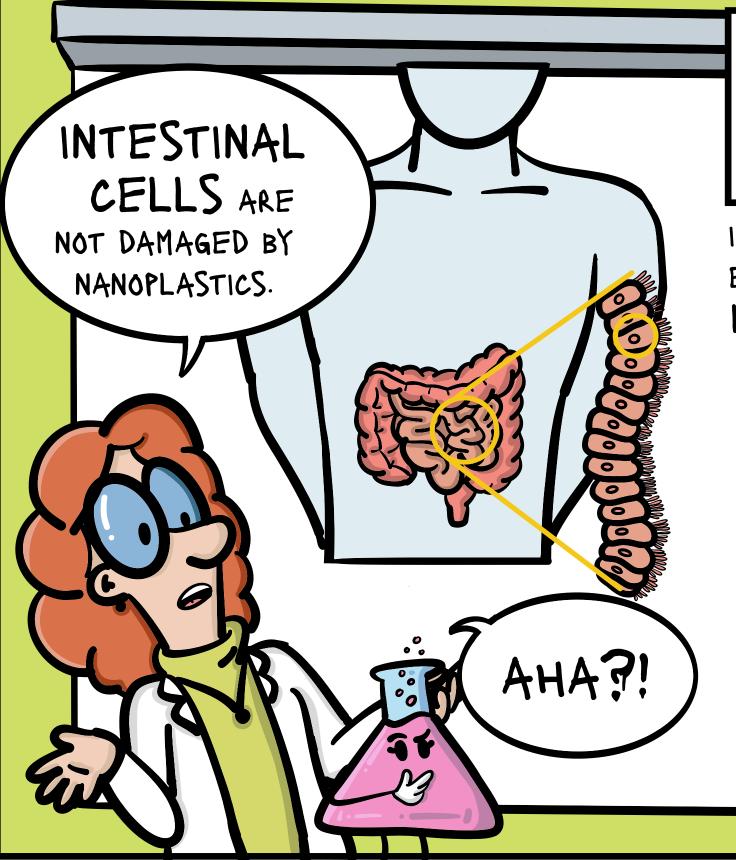






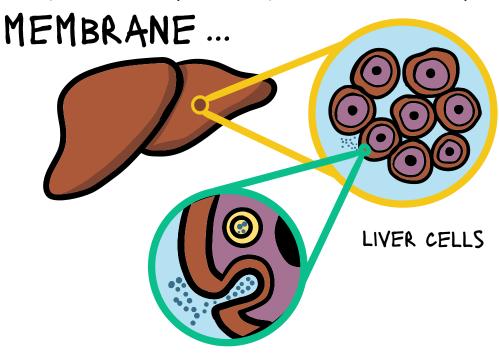




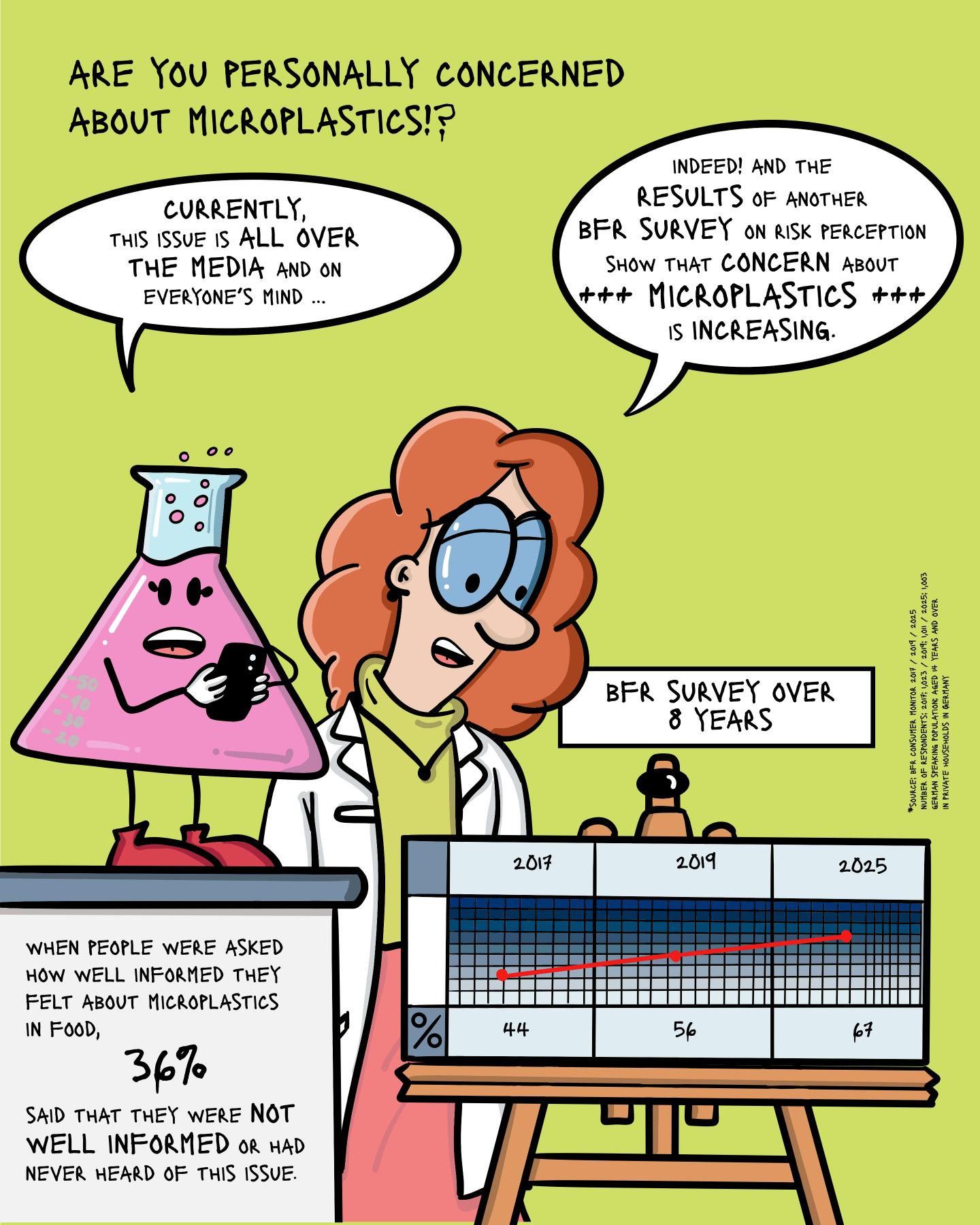


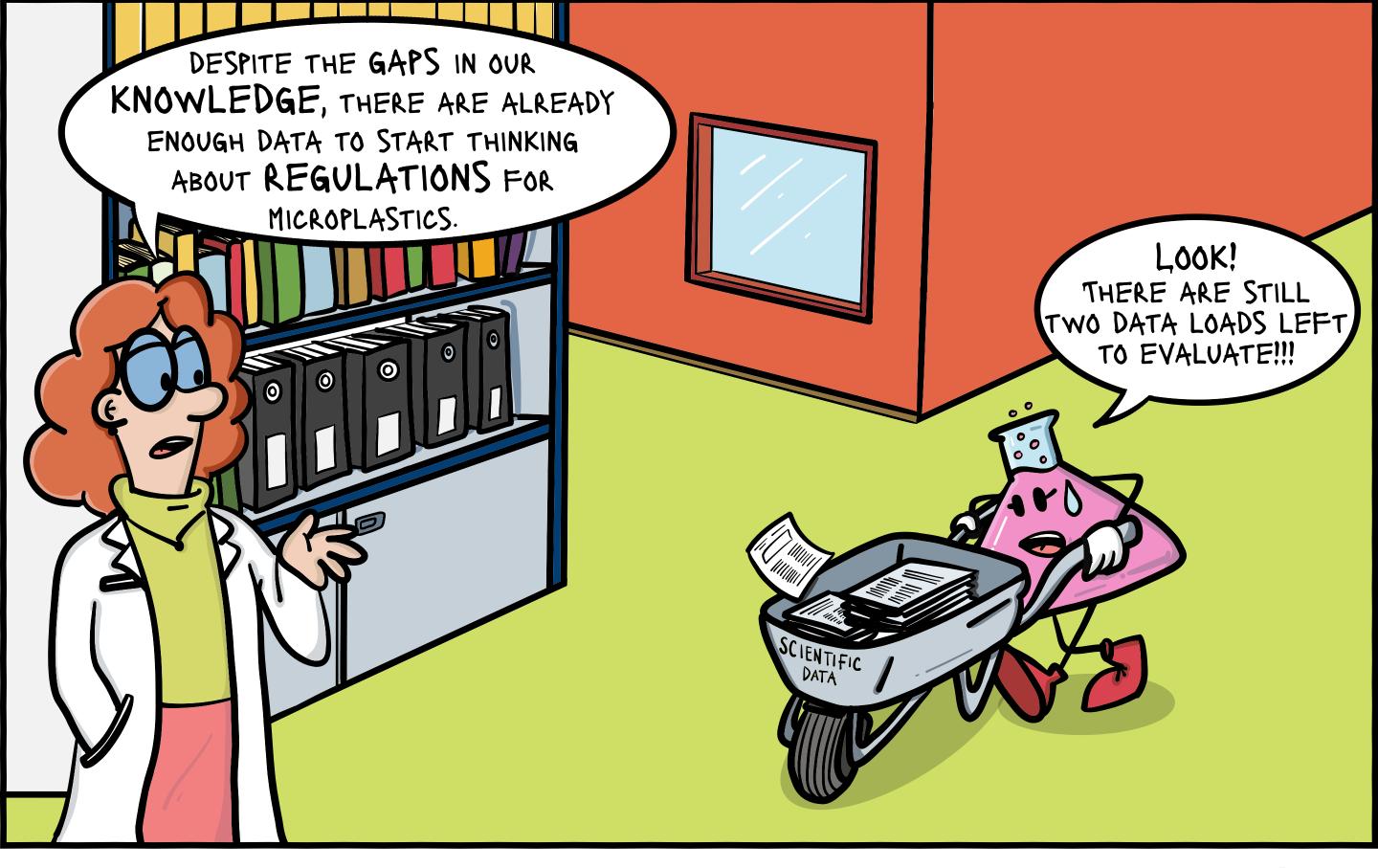
THE BFR HAS INVESTIGATED 'IN VITRO' HOW NANOPLASTICS AFFECT CELLS. THIS WAS A LABORATORY-BASED STUDY, WE CANNOT YET SAY HOW AN ACTUAL BODY WOULD REACT.

IN THE LIVER, THE PARTICLES CAN BE ENGULFED BY BEING ENCIRCLED BY THE CELL



+++ WE CALL THIS ENDOCYTOSIS +++
HOWEVER, NO DAMAGING EFFECTS
WERE OBSERVED HERE EITHER.



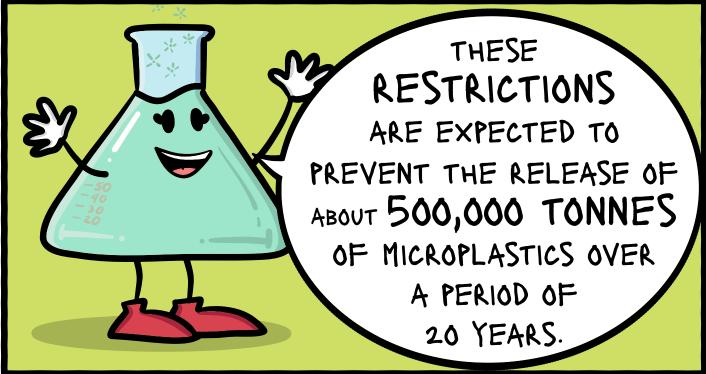




+++ MICROBEADS +++
IN COSMETICS, E.G. IN BODY
SCRUBS, HAVE BEEN BANNED
IN THE EU SINCE 2023.

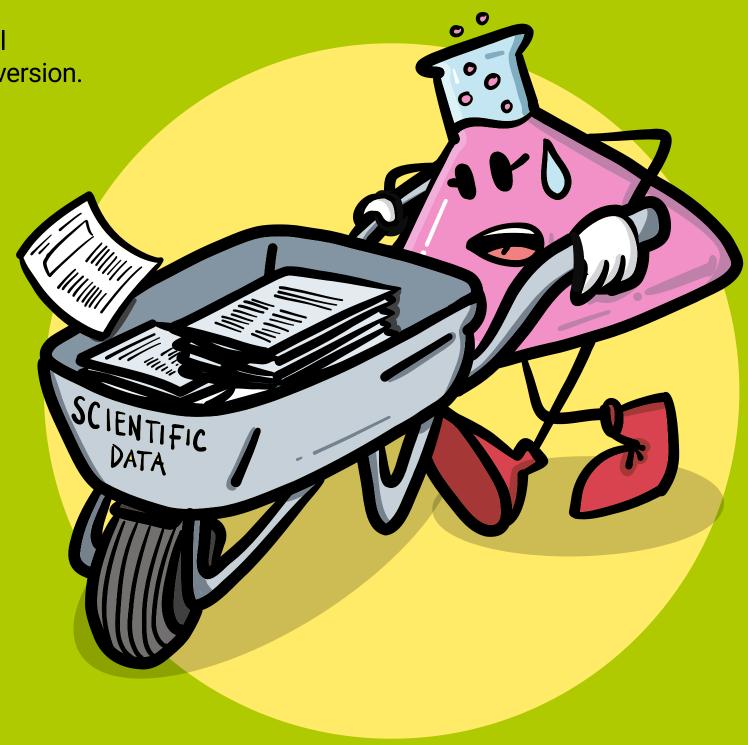


THE SALE OF
MICROPLASTICS, INCLUDING
+++ PLASTIC GLITTER +++
ON THEIR OWN OR AS
ADDITIVES IN PRODUCTS
(E.G. CRAFT KITS, TOYS,
ETC.) HAS ALSO BEEN
FORBIDDEN.





This text version is a translation of the original German text which is the only legally binding version.



Legal notice

Publisher:

German Federal Institute for Risk Assessment

Max-Dohrn-Straße 8-10 10589 Berlin, Germany T +49 30 18412-0 F +49 30 18412-99099 bfr@bfr.bund.de bfr.bund.de/en

Institution under public law

Represented by the President Professor Dr Dr Dr h. c. Andreas Hensel Supervisory Authority: German Federal Ministry of Agriculture, Food and Regional Identity Responsible according to the German Press Law: Dr Suzan Fiack VAT ID No. DE 165 893 448

ISSN: 3053-9013 (Online) | 3053-9072 (Print)

DOI: 10.17590/20250527-105328-0

Status: September 2025

About the BfR

The German Federal Institute for Risk Assessment (BfR) is a scientifically independent institution within the portfolio of the German Federal Ministry of Agriculture, Food and Regional Identity (BMLEH). It protects people's health preventively in the fields of public health and veterinary public health. The BfR provides advice to the Federal Government as well as the Federal States ('Laender') on questions related to food, feed, chemical and product safety. The BfR conducts its own research on topics closely related to its assessment tasks.



BfR | Identifying Risks – **Protecting Health**















