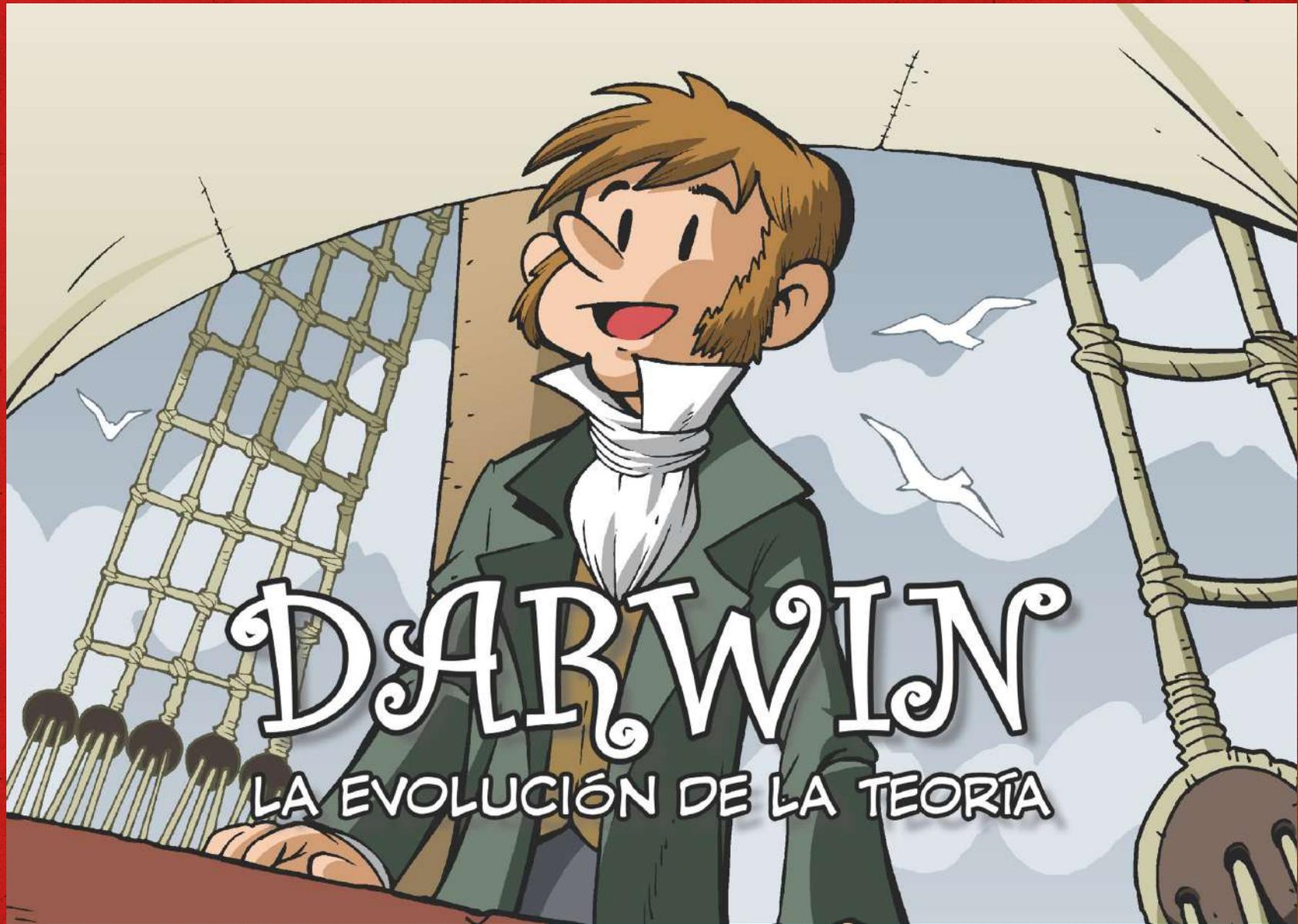


**SCIENTISTS BIOGRAPHIES GRAPHIC NOVELS**

**FOR READERS AGES 7 TO 11  
24 X 17 CM. COLOR. 48 PAGES.**

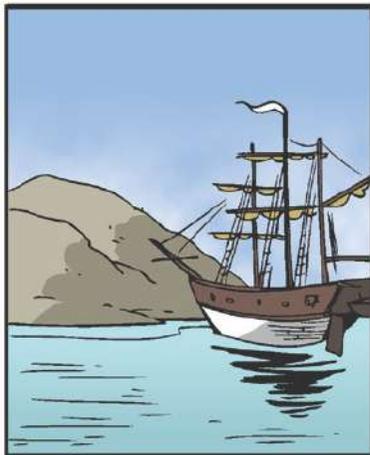
**STORY AND ART BY JORDI BAYARRI.**

**HISTORICAL AND SCIENTIFIC CONSULTATION BY  
DR. TAYRA M. C. LANUZA-NAVARRO, PHD IN HISTORY OF SCIENCE.**

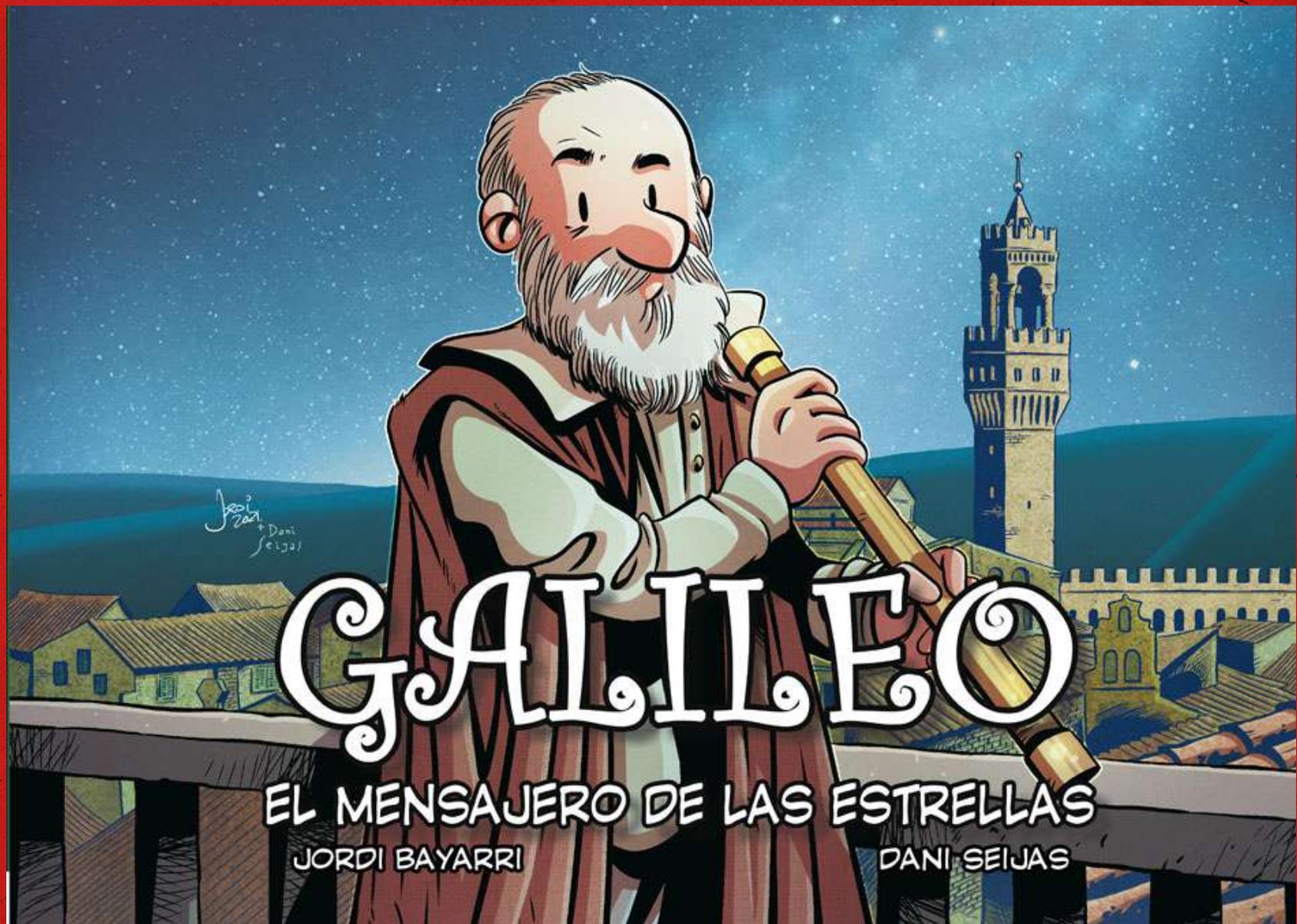


## DARWIN, THE EVOLUTION OF THE THEORY

IN 1859, CHARLES DARWIN PUBLISHES HIS BOOK THE ORIGIN OF SPECIES. BUT, UNKNOWINGLY, HE WAS PREPARING FOR THIS EVENT FROM HIS CHILDHOOD. FIND OUT IN THIS COMIC BOOK HOW A NATURALIST IS BORN. HOW HIS PASSION FOR OBSERVING AND DISCOVERING NATURE LEADS HIM TO TRAVEL THE WORLD.



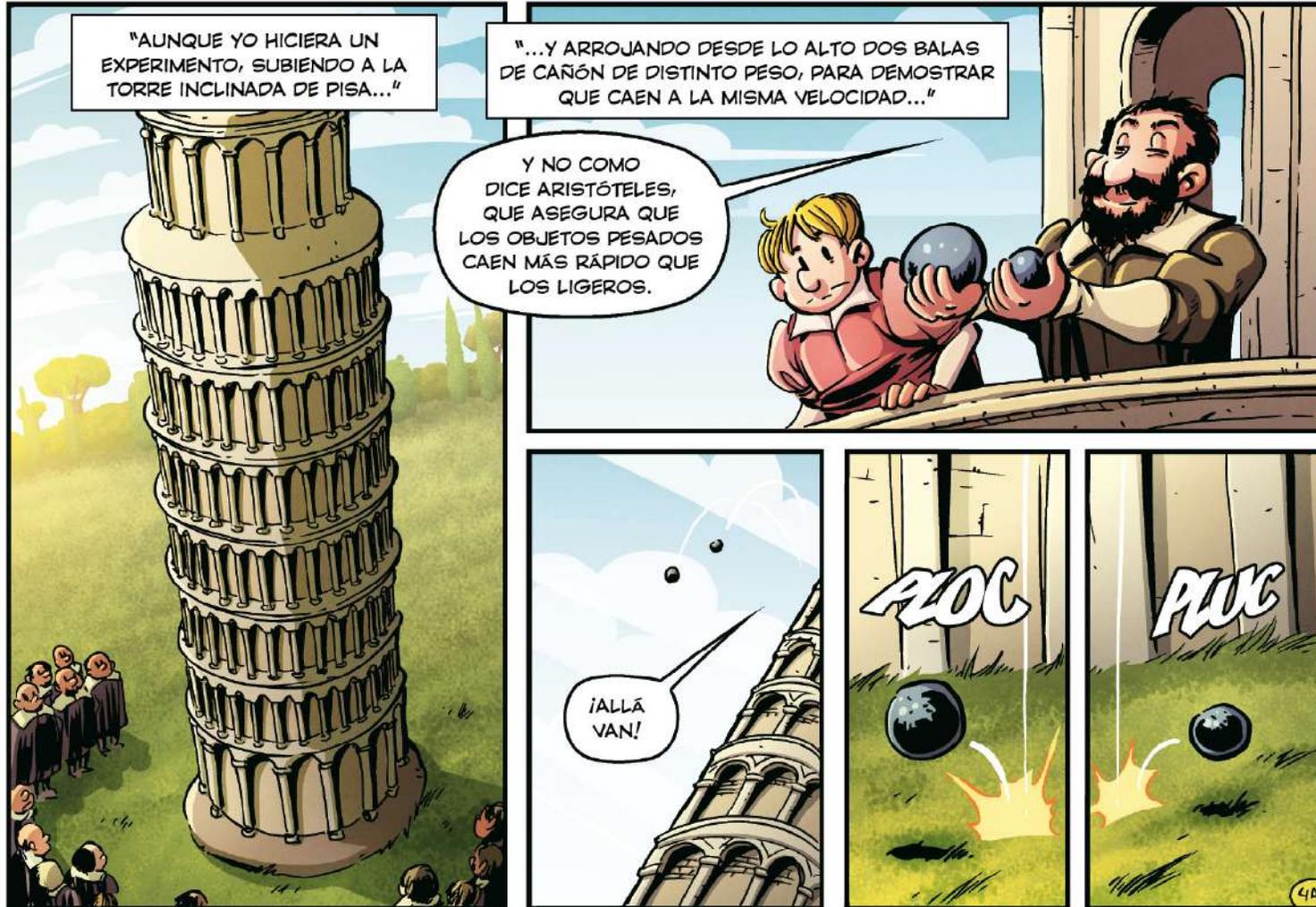




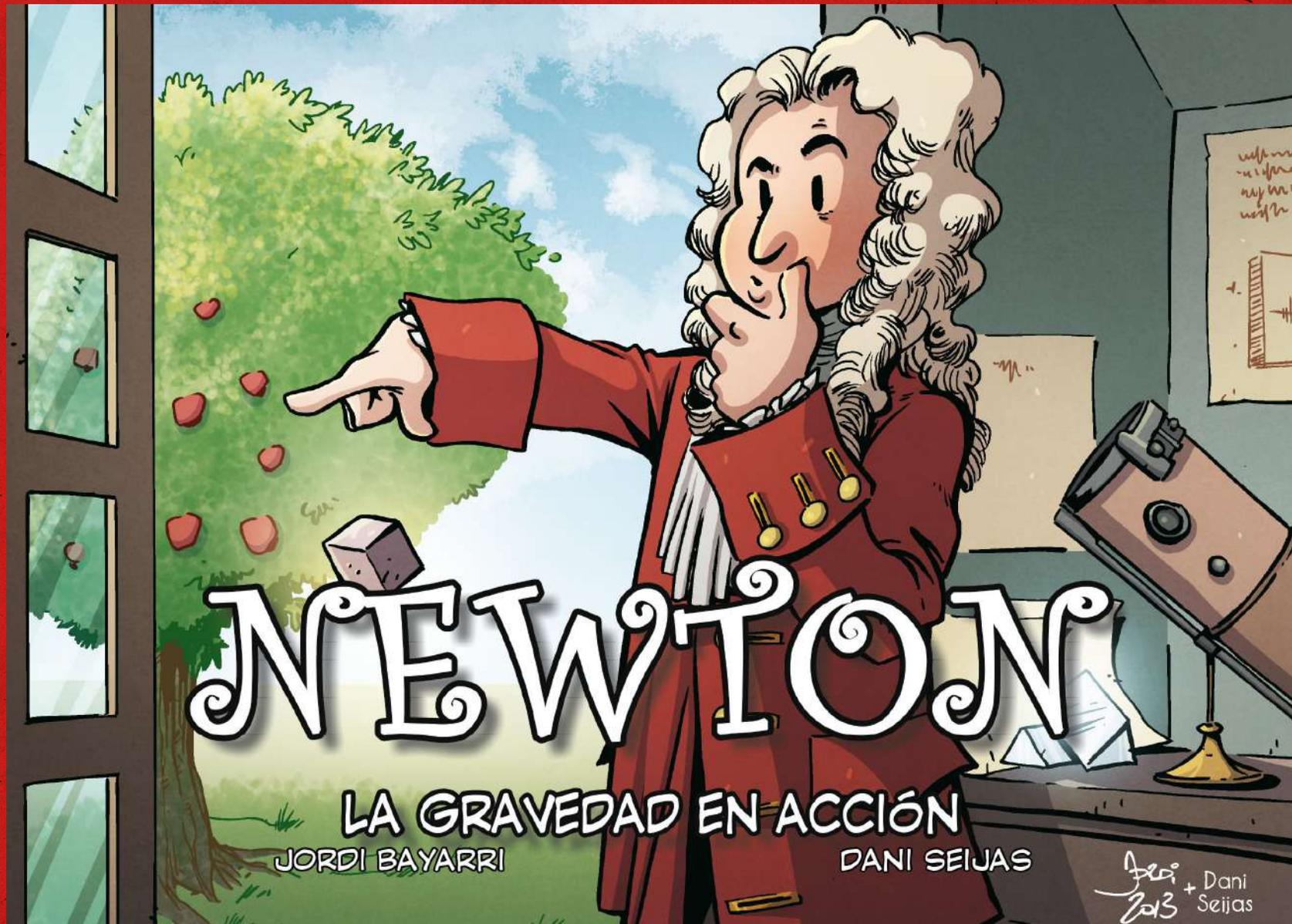
## **GALILEO, THE MESSENGER OF THE STARS**

**IN 1609, GALILEO GALILEI BUILT HIS OWN TELESCOPE. WITH IT, HE OBSERVED THE PLANETS, THE MOON, THE SUN...**

**THANKS TO THESE OBSERVATIONS HE DISCOVERED THAT THE UNIVERSE WAS NOT THE WAY HE HAD BEEN TAUGHT. WITH HIS FINDINGS HE PUT TO THE TEST THE SCIENTIFIC WORLD OF HIS PERIOD. GALILEO ARRIVED WITH A MESSAGE THAT WOULD CHANGE THE WORLD. A MESSAGE HE HAD READ ON THE STARS.**

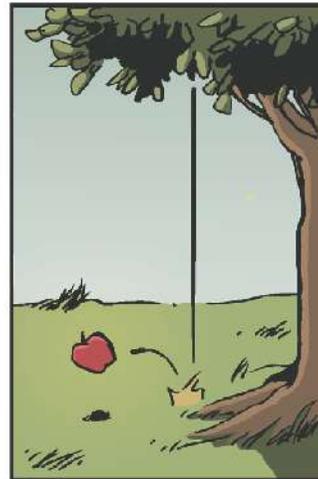






## NEWTON, GRAVITY IN ACTION

ISAAC NEWTON WAS A RESTLESS CHILD WHO WANTED TO KNOW HOW EVERYTHING WORKED. WHILE STUDYING AT CAMBRIDGE HE EXPERIMENTED WITH EVERYTHING THAT WOULD HELP HIM UNRAVEL THE MECHANICS OF THE UNIVERSE: LIGHT, MATHEMATICS, CHEMISTRY, MOVEMENT... HIS UNDERSTANDING OF THE EXISTENCE OF A UNIVERSAL LAW WHICH EXPLAINED THE MOVEMENT OF THE PLANETS AS WELL AS THAT OF ANY OTHER OBJECT, OPENED THE DOOR TO A NEW PHYSICS.







## MARIE CURIE, THE ACTIVITY OF RADIUM

MARIE SKLODOWSKA-CURIE, WINNER OF TWO NOBEL PRIZES AND MANY OTHER AWARDS, AND DISCOVERER OF TWO NEW ELEMENTS, POLONIUM AND RADIUM, WAS, BEYOND THAT, A SCIENTIST WITH A WIDE VERSION OF THE IMPORTANCE OF RESEARCH. HER COMPROMISE WITH SCIENCE AS A WAY TO UNDERSTAND THE WORLD AND BENEFIT HUMANITY MAKES OF HER MUCH MORE THAN ONE OF THE MOST IMPORTANT SCIENTISTS IN HISTORY.



¡FELICIDADES MARIE!

¡FELICIDADES POR HABER TERMINADO TU TESIS!  
¡YA ERES DOCTORA!



¡GRACIAS A TODOS!  
ESPERO SEGUIR CONTANDO  
CON VUESTRO APOYO Y ASÍ  
PODER CONTINUAR CON  
MI INVESTIGACIÓN.



QUIERO SEGUIR TRABAJANDO CON EL POLONIO Y EL RADIO, SON ELEMENTOS ASOMBROSOS.

ESTOY SEGURA DE QUE LA HUMANIDAD PUEDE BENEFICIARSE MUCHO DE ELLOS.

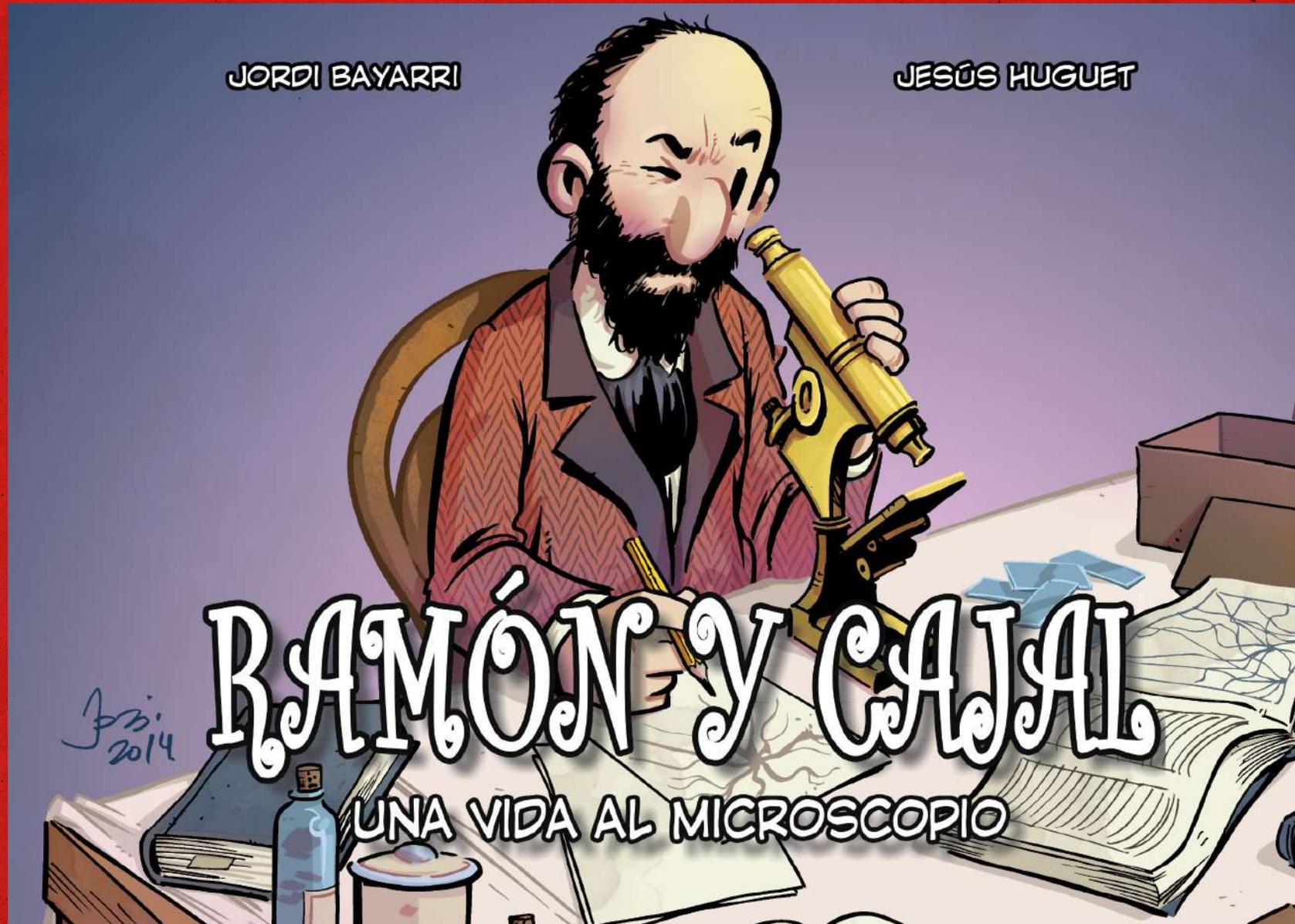
POR ESO PIERRE Y YO HEMOS DECIDIDO RENUNCIAR A TODO BENEFICIO MATERIAL DE NUESTROS DESCUBRIMIENTOS.

VED, POR EJEMPLO, COMO EL RADIO ILUMINA ESTA VELADA CON SU RESPLANDOR AZUL.



JORDI BAYARRI

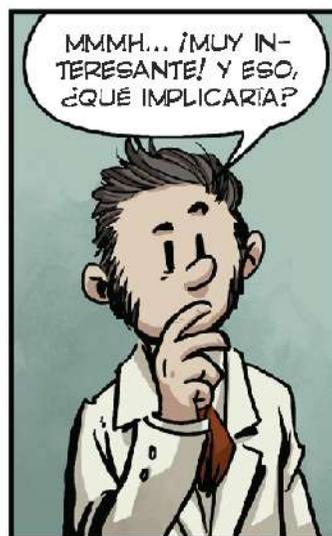
JESÚS HUGUET



## RAMÓN Y CAJAL, A LIFE UNDER THE MICROSCOPE

SANTIAGO RAMÓN Y CAJAL IS ONE OF THE MOST IMPORTANT SPANISH SCIENTISTS OF ALL TIMES. WINNER OF A NOBEL PRIZE, FATHER OF MODERN NEUROBIOLOGY AND MAXIMUM EXPONENT OF THE SPANISH SCIENCE OF THE BEGINNING OF THE 20TH CENTURY, HIS LIFE IS AN EXAMPLE OF PERSEVERANCE, HARD WORK AND SELF-SACRIFICE, BUT IT IS ALSO FULL OF CURIOSITY, IMAGINATION AND HUMILITY.







# ARISTÓTELES

EL DESEO DE SABER

JORDI BAYARRI

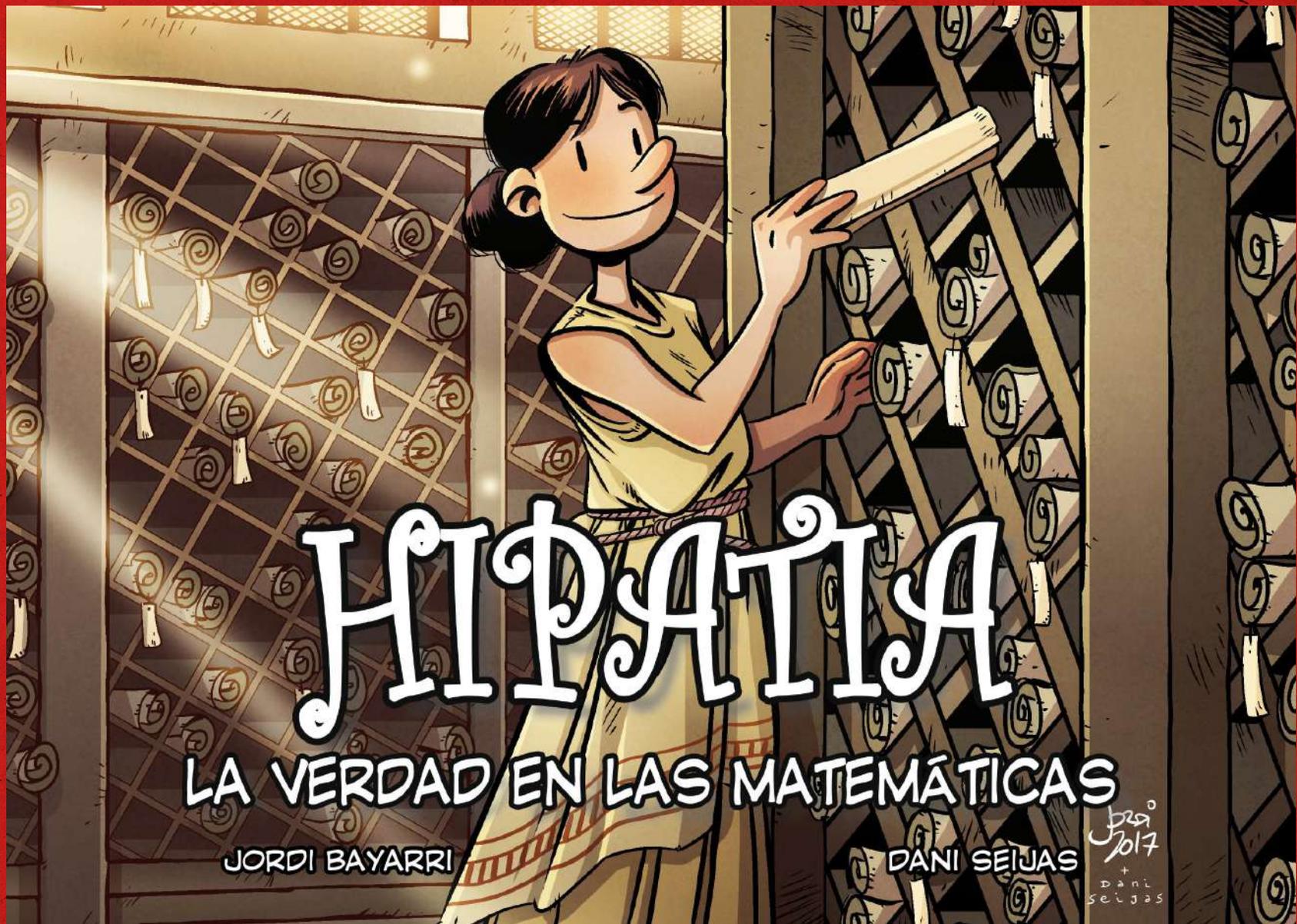
DANI SEIJAS

## ARISTOTLE, THE DESIRE TO KNOW

SINCE HE WAS YOUNG, ARISTOTLE DESIRED TO KNOW. HE WANTED TO LEARN ABOUT EVERY ASPECT OF KNOWLEDGE, FROM HUMAN ACTIVITY, POLITICS AND ETHICS, TO EVERYTHING HE OBSERVED IN NATURE. HIS STUDIES ESTABLISHED THE BASES OF SCIENTIFIC KNOWLEDGE ABOUT THE PHYSICAL WORLD AND BECAME THE REFERENCE FOR NEARLY TWO THOUSAND YEARS.





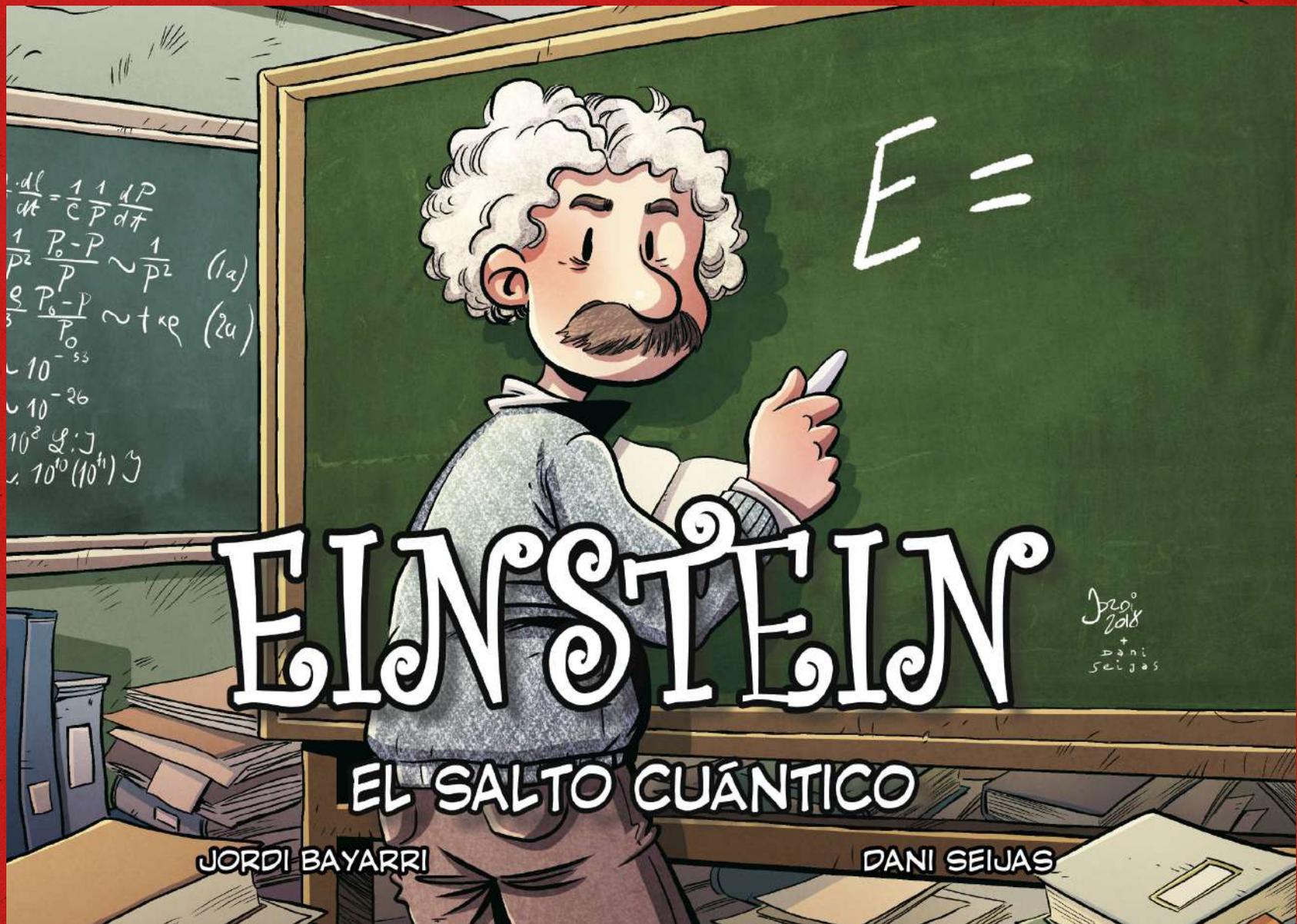


## HYPATHIA, THE TRUTH IN MATHEMATICS

LEARN ABOUT THE LIFE OF HYPATHIA OF ALEXANDRIA, PHILOSOPHER, MATHEMATICIAN AND ASTRONOMER, WHO CARRIED OUT HER SCIENTIFIC AND TEACHING WORK IN THE SHADOW OF THE LEGENDARY LIBRARY OF ALEXANDRIA, DURING A TURBULENT PERIOD IN WHICH THE ROMAN EMPIRE WAS SPLIT IN TWO, AND FANATICISM AND VIOLENCE INVADED THE STREETS.



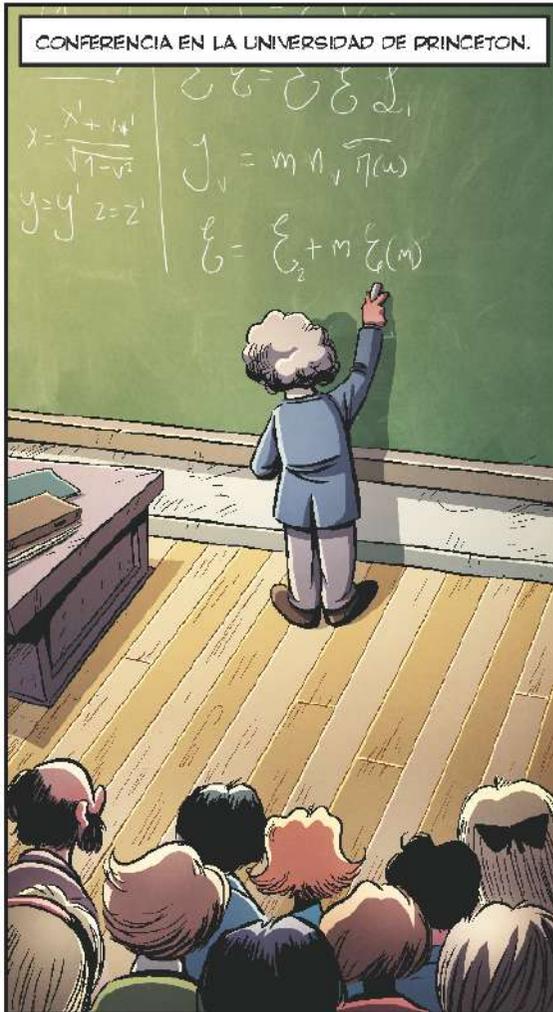




## EINSTEIN, THE QUANTUM LEAP

IF THERE IS A SCIENTIST EVERYBODY KNOWS, THAT IS ALBERT EINSTEIN. THEORETICAL PHYSICIST, PHILOSOPHER OF SCIENCE, PEDAGOGUE, UNIVERSITY PROFESSOR... AND NOBEL PRIZE OF PHYSICS IN THE YEAR 1921. HIS FINDINGS LEAD HIM TO COMPLETELY REVOLUTIONISE KNOWN PHYSICS. HIS THEORIES CAPTIVATED THE SCIENTISTS OF HIS TIME AND MADE THE WHOLE WORLD SPEAK ABOUT PHYSICS. HIS THOUGHT FORCED SCIENCE TO MAKE A GREAT LEAP. A QUANTUM LEAP.







# ADA LOVELACE

LA ENCANTADORA DE NÚMEROS

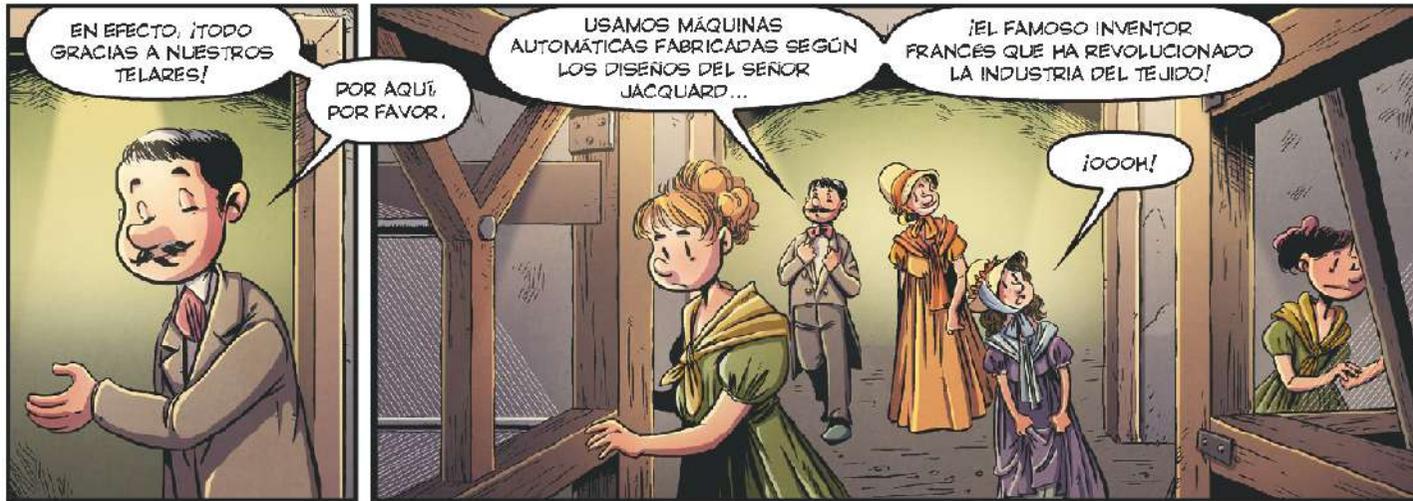
JORDI BAYARRI

DANI SEIJAS

Jordi  
+  
Dani  
Seijas

## ADA LOVELACE, THE ENCHANTRESS OF NUMBERS

ADA WAS ALWAYS A CURIOUS CHILD, WHOSE INTEREST IN MATHEMATICS GREW UP WITH HER, AND LEAD HER TO TAKE AN INTEREST IN THE FABULOUS MACHINE THAT CHARLES BABBAGE WAS BUILDING UP. BUT SHE SAW IN THAT MECHANISM MUCH MORE THAN HIS VERY CREATOR COULD HAVE IMAGINED. THANKS TO HER CREATIVE MIND ADA WROTE AN ALGORITHM WITH THE INSTRUCTIONS AND STEPS THE MACHINE WOULD FOLLOW TO MAKE CALCULATIONS WITH NO NEED FOR HUMAN INTERVENTION: A PRECURSOR OF WHAT WE NOW CALL A COMPUTER PROGRAMME.

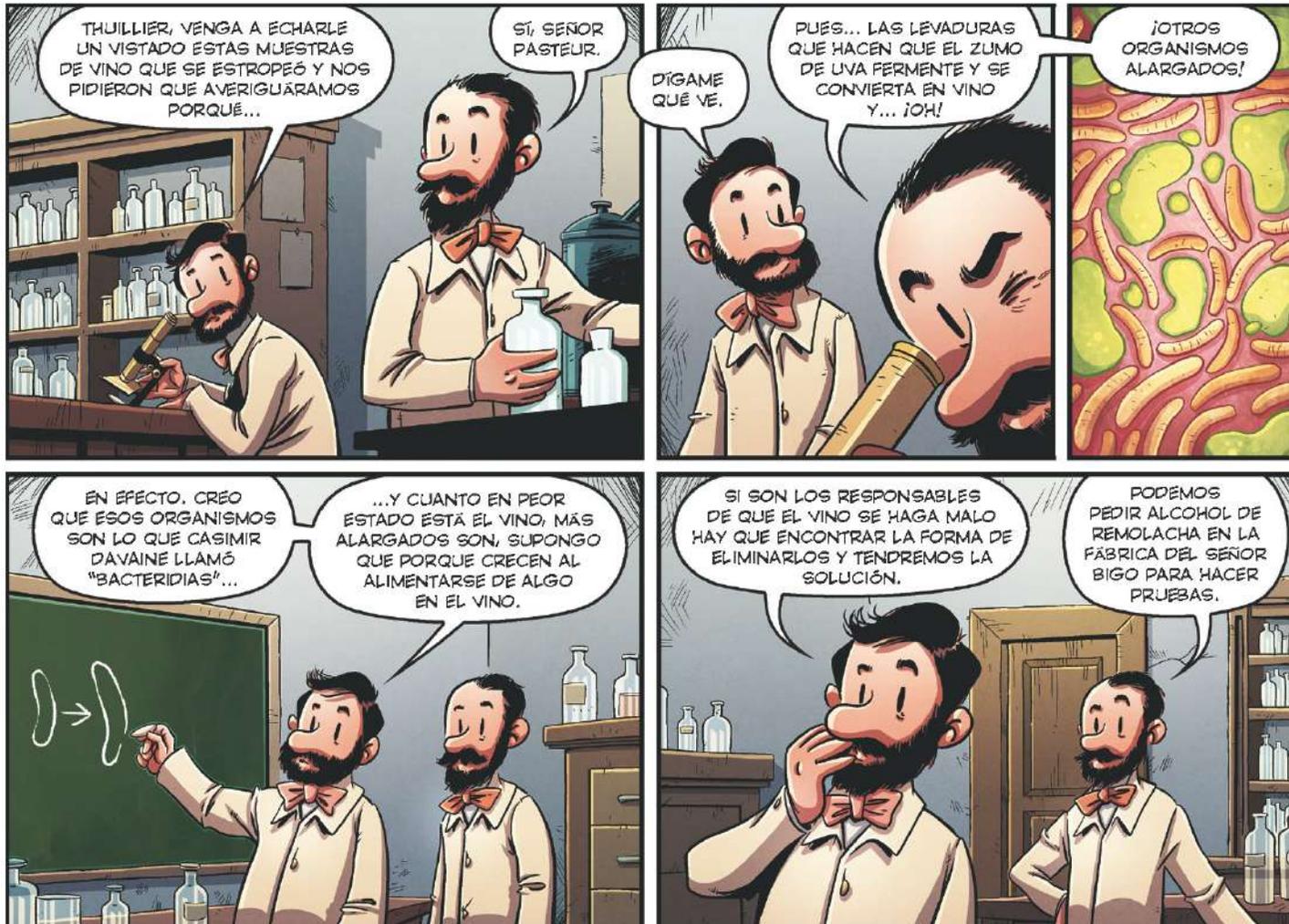






## PASTEUR, THE MICROBIAL REVOLUTION

LOUIS PASTEUR IS CONSIDERED THE PIONEER OF CLINICAL MICROBIOLOGY, AS HE REFUTED THE THEORY OF SPONTANEOUS GENERATION AND PROVED THAT EVERY LIVING BEING COMES FROM FROM ANOTHER PREEXISTENT LIVING BEING. HIS IDEAS ABOUT GERMS AND MICROORGANISMS OPENED THE DOOR TO A NEW WORLD THAT REVOLUTIONISED MEDICAL PRACTICE, ESTABLISHING THE BASIS FOR ASEPSIA, AND FOR THE DEVELOPMENT OF VACCINES, WHICH HAVE SAVED SO MANY LIVES FROM THEN TO OUR VERY OWN DAYS.





¿BUENAS NOTICIAS EN EL CORREO, LOUIS?

¡YA LO CREO! ME ESCRIBE MI COLEGA JOSEPH LISTER, DE EDIMBURGO.

¿RECUERDAS QUE TE HABLE DE ÉL? ES UN MÉDICO Y CIRUJANO QUE A PARTIR DE MI TRABAJO SOBRE LOS GÉRMENES HA DESARROLLADO UN SISTEMA ANTISÉPTICO.



"CREE QUE LOS GÉRMENES PROVOCAN INFECCIONES EN LAS HERIDAS ABIERTAS Y HA CONSEGUIDO QUE LOS MÉDICOS ADOPTEN LAS MEDIDAS QUE ÉL HA DISEÑADO PARA QUE ESTO NO SUCEDA."



"AHORA SE LAVAN BIEN LAS MANOS CON JABÓN ANTES DE IR A OPERAR A UN PACIENTE..."



"...TAMBIÉN ESTERILIZAN EL INSTRUMENTAL MÉDICO CON ÁCIDO FÉNICO..."

"...Y LAVAN BIEN LAS HERIDAS ANTES DE INTERVENIR."



¡ESTÁ CONSIGUIENDO GRANDES RESULTADOS Y GRACIAS A ÉL SE ESTÁN EVITANDO MUCHAS MUERTES! ¡EXCELENTE!



# MARY ANNING

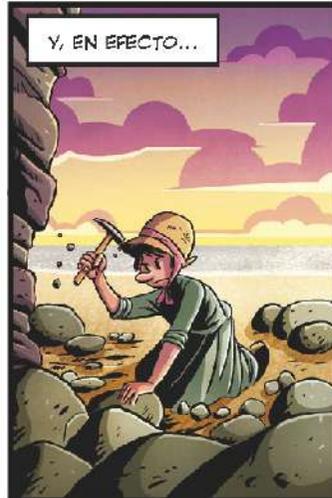
CAZADORA DE DRAGONES

JORDI BAYARRI

DANI SEIJAS

## MARY ANNING, HUNTRESS OF DRAGONS

A TIRELESS, SELF-EDUCATED, SEARCHER OF FOSSILS, HER FINDINGS IN THE ROCKS OF THE SOUTHERN COAST OF ENGLAND OF THE REMAINS OF CREATURES FROM THE JURASSIC PERIOD, WERE FUNDAMENTAL FOR THE DEVELOPMENT OF SCIENTIFIC IDEAS ABOUT PREHISTORIC LIFE AND THE HISTORY OF THE EARTH, IDEAS WHICH REVOLUTIONISED KNOWLEDGE AT THE BEGINNING OF THE 19TH CENTURY.







**AND MORE...**

# MENDELÉEV

## Y LA TABLA PERIÓDICA

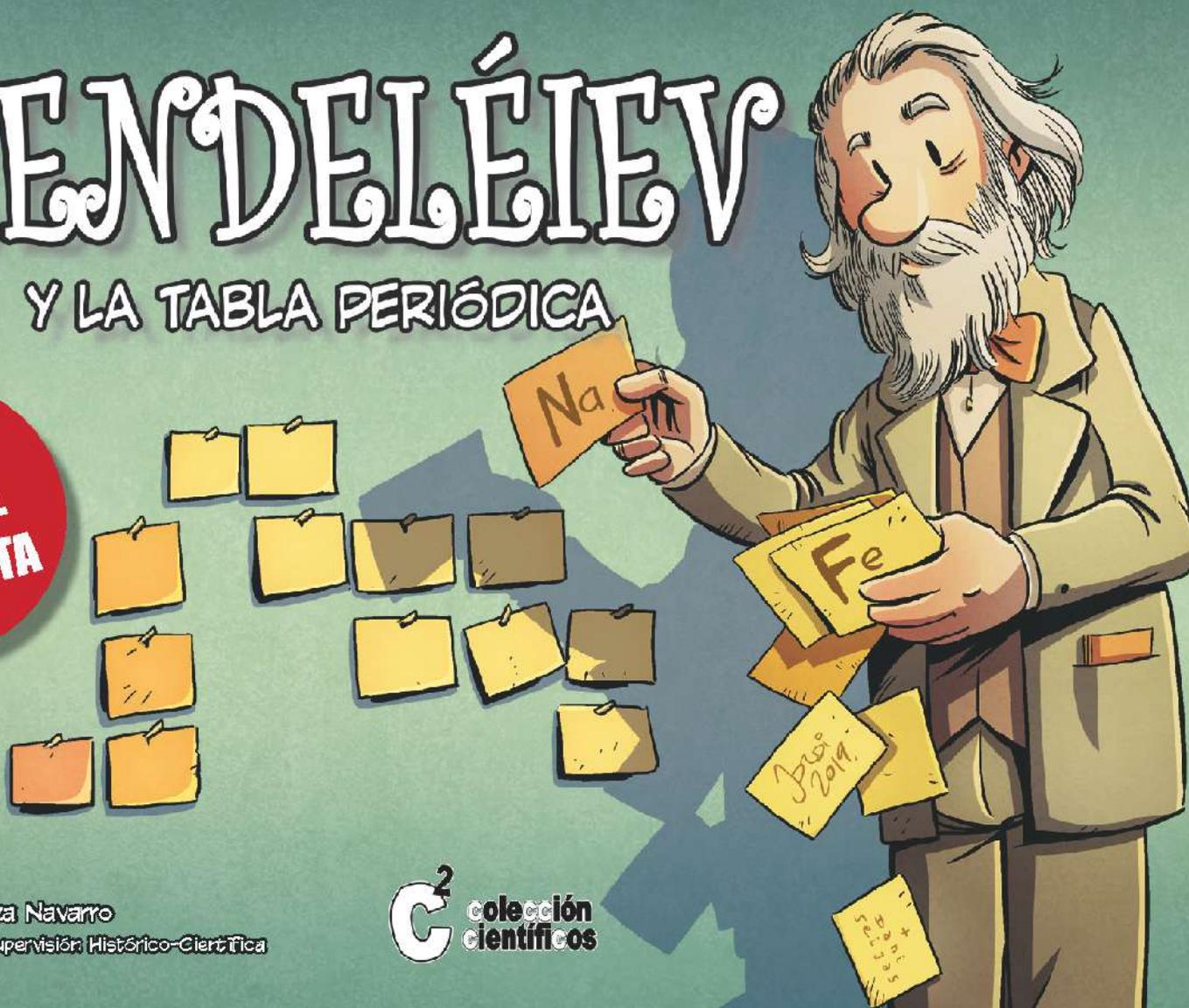
EDICIÓN  
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GRATUITA

Jordi Bayarri  
Guión y Dibujo

Dani Seijas  
Color

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C<sup>2</sup> colección  
científicos



**MENDELÉEV AND THE PERIODIC TABLE**  
THE HISTORY OF THE CREATION OF THE PERIODIC TABLE OF ELEMENTS.



YA LOS GRIEGOS SE PREGUNTABAN DE QUÉ MATERIA ESTABA FORMADO NUESTRO UNIVERSO...



...Y SUGIRIERON QUE TODO ESTABA HECHO DE LA COMBINACIÓN DE CUATRO ELEMENTOS QUE PODÍAN TRANSFORMARSE UNOS EN OTROS:

FUEGO

AIRE

TIERRA

AGUA



SOBRE ESTA BASE, SABIOS ÁRABES ELABORARON LA TEORÍA "AZUFRE-MERCURIO": PROPIEDADES ABSTRACTAS PRESENTES EN LA MATERIA.



Y SEGÚN LA CUAL, DIFERENTES COMBINACIONES DE ESTAS PROPIEDADES FORMABAN LOS SIETE METALES: ORO, PLATA, COBRE, LATÓN, HIERRO, PLOMO Y MERCURIO.

ESTA IDEA INSPIRÓ MUCHAS INVESTIGACIONES Y EXPERIMENTOS ALQUÍMICOS, COMO EL CÉLEBRE INTENTO DE CONVERTIR EL PLOMO EN ORO.

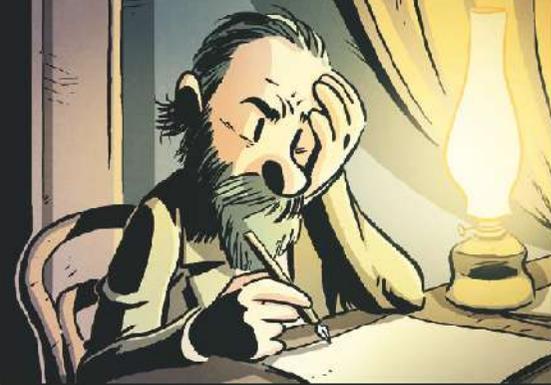


EN EL SIGLO XVI EL ALQUIMISTA ALEMÁN PARACELSO AÑADIÓ OTRO PRINCIPIO PRIMORDIAL: LA SAL.

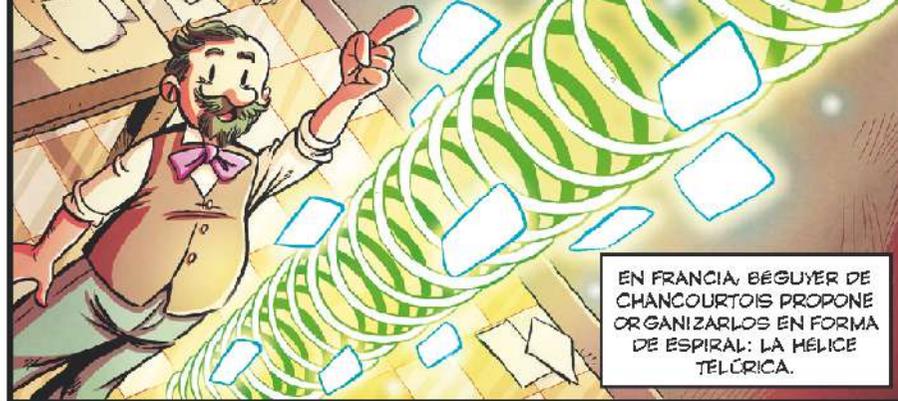
EL AZUFRE, EL MERCURIO Y LA SAL FORMAN TODA LA MATERIA, NO SOLO LOS METALES.



INSPIRADO POR EL TRABAJO DE AVOGADRO, A SU VUELTA A SAN PETERSBURGO MENDELÉEV COMIENZA A PENSAR EN LA FORMA DE ORDENAR LOS ELEMENTOS CONOCIDOS.



¡PERO NO ES EL ÚNICO! AL MISMO TIEMPO HAY QUÍMICOS EN TODO EL MUNDO QUE ESTÁN HACIENDO LO MISMO.



EN FRANCIA BÉGLUYER DE CHANCOURTOIS PROPONE ORGANIZARLOS EN FORMA DE ESPIRAL: LA HÉLICE TELÚRICA.

NEWLANDS, EN CAMBIO, QUIERE ORDENARLOS POR GRUPOS Y OBSERVA LA REPETICIÓN DE PROPIEDADES, QUE EN VARIOS CASOS ERA CADA OCHO ELEMENTOS: LO LLAMÓ LA LEY DE LAS OCTAVAS.



QUÍMICOS IMPORTANTES COMO COLING INSISTIERON EN LA IMPORTANCIA DE UTILIZAR LOS ÚLTIMOS VALORES DESCUBIERTOS DE LOS PESOS ATÓMICOS Y DE ORGANIZAR LOS ELEMENTOS DE FORMA CRECIENTE, ADEMÁS DE VER LA PERIODICIDAD.

EL ALEMÁN LOTHAR MEYER DESCUBRIÓ EL SISTEMA PERIÓDICO INDEPENDIENTEMENTE DE MENDELÉEV, Y PUBLICÓ SU PROPIA TABLA.



Y EL DANÉS HINRICHS UTILIZA LA ESPECTROGRAFÍA PARA DIFERENCIAR UNOS ELEMENTOS DE OTROS.

# LAS VACUNAS



DE JENNER A NUESTROS DÍAS

**C<sup>2</sup>** colección  
científicos

**THE VACCINES, FROM JENNER TO OUR DAYS**  
THE HISTORY OF VACCINES, FROM THE BEGINNINGS TO MODERN VACCINES AND THEIR IMPORTANCE.

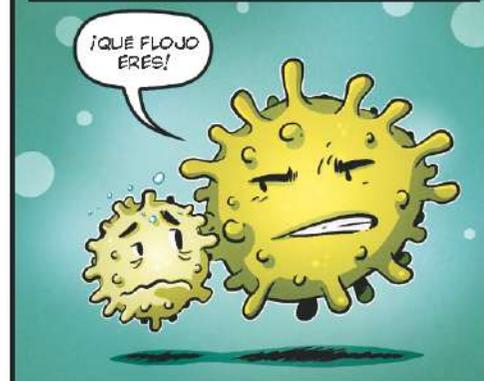
UNA ENFERMEDAD INFECCIOSA SE PRODUCE CUANDO UN VIRUS O UNA BACTERIA PENETRAN EN EL CUERPO Y LAS DEFENSAS DEL MISMO NO PUEDEN COMBATIRLOS...



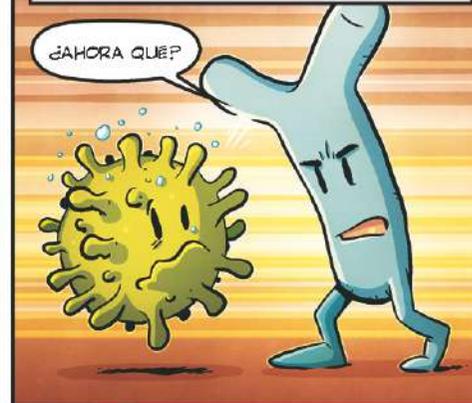
ES ENTONCES CUANDO NOS PONÉMOS ENFERMOS Y, EVENTUALMENTE, PODEMOS TRANSMITIR ÉSTOS MICROBIOS A LOS QUE NOS RODEAN, CONTAGIÁNDOLES ASÍ LA ENFERMEDAD.

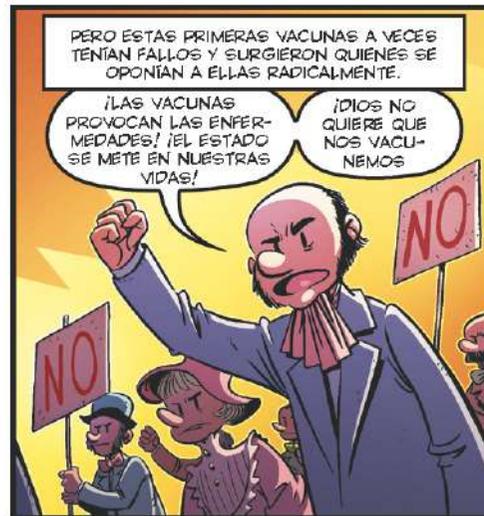


UNA VACUNA ES UNA VERSIÓN DÉBIL DEL VIRUS (O LA BACTERIA) QUE SE INOCULA EN EL ORGANISMO Y LOS ANTICUERPOS PUEDEN LUCHAR CONTRA ÉL, APRENDIENDO A VENCERLO FÁCILMENTE...



DE ESTA MANERA, CUANDO EL VIRUS ORIGINAL LLEGA AL ORGANISMO, LAS DEFENSAS ESTÁN PREPARADAS PARA DETENERLO Y CONSEGUIR QUE NO ENFERMEMOS.





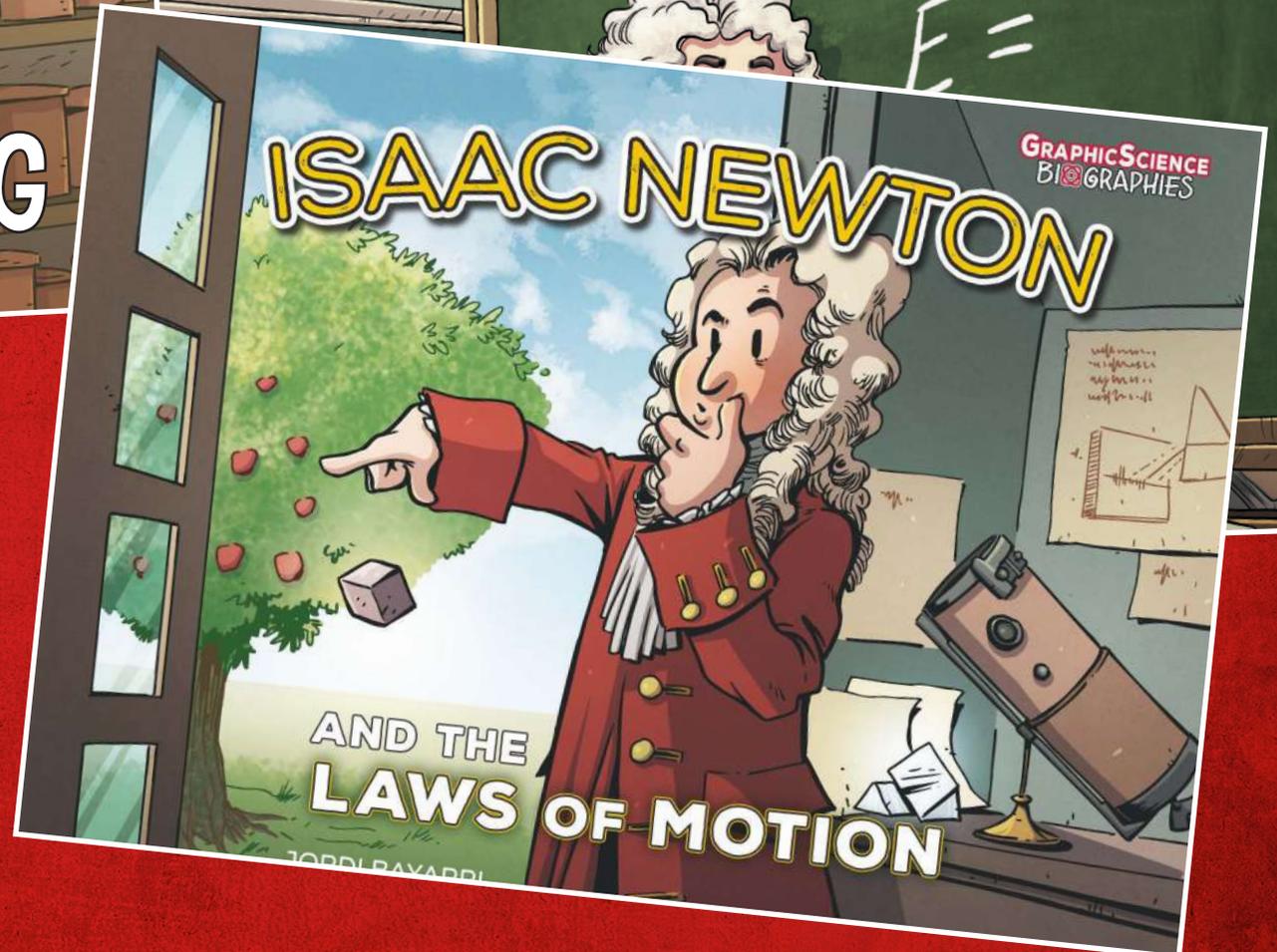


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