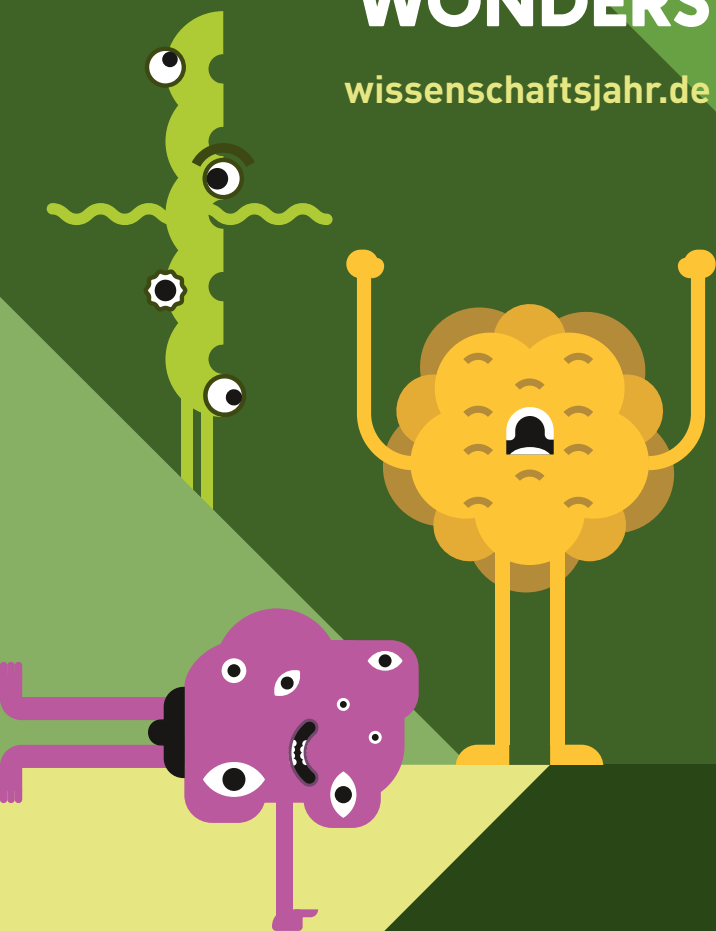


HIDDEN HEROES THAT
**WORK
WONDERS**

wissenschaftsjahr.de



An Initiative of the Federal Ministry
of Education and Research

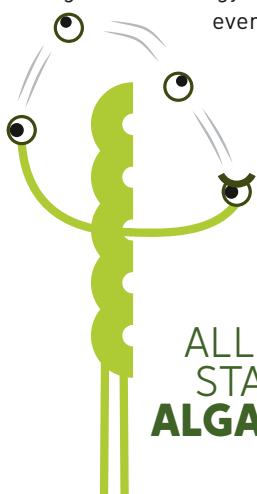
Science Year 2020|21

BIOECONOMY

What is bioeconomy?

Global challenges such as rapid population growth, dwindling biodiversity and climate change require radical changes. We need to move away from a fossil fuel-based economy and towards a bioeconomy, towards the sustainable and efficient production, processing and utilization of biological resources such as plants, animals and microorganisms. "Hidden heroes" have an important role to play in making this change: algae are used to produce pharmaceutical products, yeasts are used in the chemical industry and bacteria are used to generate energy. Science Year 2020|21 aims to give

everyone in Germany the opportunity to learn about the concept of bioeconomy with vivid, hands-on examples, events and interactive exhibitions.



It's time to celebrate!

Science Year 2020|21 – Bioeconomy marks the 20th anniversary of our science year programme. It all started with the Year of Physics in 2000. At that time, the Federal Ministry of Education and Research had made it their goal to initiate debate within society about education and research-related topics and to engage with as many people in Germany as possible. Since then, a huge number of partners from science, industry, politics and society have given their support to the Science Years and encouraged dialogue between the scientific community and the general public.

The MS Wissenschaft

The MS Wissenschaft – a floating Science Centre – will embark on another voyage in Science Year 2020|21. Everyone is invited to come aboard and find out more about the various aspects of bioeconomy in an interactive exhibition.

ms-wissenschaft.de

EXPERIENCE
BIO-
ECONOMY

Invite a scientist

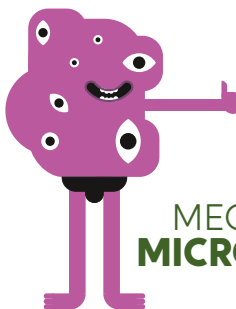
Schools can use the research exchange platform to invite scientists to come to their classrooms or speak to the class via video link. Whether for STEM subjects such as biology, math and physics or for other subjects such as philosophy, German and politics, the platform gives teachers access to more than 1,000 researchers from all over Germany, including specialists in bioeconomy.

forschungsboerse.de

School Cinema Weeks

Bioeconomy – the big blockbuster for Science Year 2020|21! A special programme presented by Vision Kino offers pupils of all ages and from all types of school the chance to watch a wide range of films touching on the many different aspects of bioeconomy. This year, the film selection includes Toy Story 4 and 2040.

schulkinowochen.de



MEGA
MICROBE!

Escape Room

Solve puzzles to find a way out of an unsustainable economic system – the escape room developed by Wissenschaft im Dialog and the Haus der Wissenschaft Braunschweig shows us how! You can only escape the room if you can solve the puzzles related to bioeconomy in our everyday lives! The escape room can be found at museums and science centres throughout Germany, as well as online.

[wissenschaftsjahr.de/foerderprojekte](https://www.wissenschaftsjahr.de/foerderprojekte)

Competition

The future of plastic is bio-based. All around the world, researchers are working hard to develop new production methods for sustainable and biodegradable bioplastics.

In keeping with the principles of bioeconomy, these materials will help preserve our natural resources and make us less dependent on oil imports from politically unstable countries.



Get involved!

The competition “My Plastic is Bio” is your chance to make your own bioplastics using renewable materials or organic waste products and then turn them into a work of art or useful household item. Let your creativity run wild – from fruit bowls to building blocks to Christmas tree ornaments or plastic sculptures – anything is possible! Attractive prizes will be awarded to the best entries. You can find everything you need to know about the competition as well as various instructions for making your own bioplastics on the website:

[wissenschaftsjahr.de/2020-21/bioplastik](https://www.wissenschaftsjahr.de/2020-21/bioplastik)

EXPEDITION ERDREICH



MIT TEEBEUTELN
DEN BODEN
ERFORSCHEN



Expedition into the earth

Exploring the soil with teabags

Soil fulfils several important functions for us and the environment. Not only does it provide us with food and renewable resources, it also absorbs large amounts of carbon dioxide and therefore plays an important role in climate change mitigation. In order to better understand how our soil works and how we can use it in bioeconomy in the long run, it is vital that we collect more information about the condition of different types of soil in Germany.

We need you!

Everyone is invited to make an important contribution to science by participating in the citizen science campaign for Science Year 2020|21 – Bioeconomy. By using simple methods, you can investigate key soil properties such as the pH value or decomposition rates. Get involved and find out more about the fascinating world beneath your feet!

Dig in!

The campaign will take place in 2021. **Register online now and you will be sent a notification as soon as the free expedition kits are available to order.**

The kits will be sent out in spring 2021.

Find out more about the campaign:

expedition-erdreich.de

Help make our future more sustainable

Become a partner!

The Science Year is vitally dependent on the knowledge and involvement of its partners from science, politics, industry and society. You, too, can become part of Science Year 2020|2021 – Bioeconomy!

The Science Year Editorial Office is happy to support you with your project.

wissenschaftsjahr.de/2020-21/partner

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Published by

Bundesministerium für Bildung und Forschung
Federal Ministry of Education and Research (BMBF)
Project Team Science Year 2020|2021 – Bioeconomy
10117 Berlin, Germany | [bmbf.de](https://www.bmbf.de)

Layout

familie redlich AG – Agentur für
Marken und Kommunikation
KOMPAKTMEDIEN – Agentur für
Kommunikation GmbH

The Science Years are a joint initiative of the Federal Ministry of Education and Research (BMBF) and Wissenschaft im Dialog (Science in Dialogue, WiD). The aim of the Science Years is to promote discussion and interaction between the public and research.

November 2020



Federal Ministry
of Education
and Research

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