

# Call for projects - Science is Wonderful! Science 2023

Fields marked with \* are mandatory.

## Introduction

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**Science is Wonderful!** brings the world of science, research and innovation to the wider public, and in particular to primary and secondary school pupils. Since its inception in 2015, it has achieved this through an annual science fair that interactively showcases MSCA research projects and innovations through presentations, hands-on experiments, games and quizzes. The event has become the flagship event to highlight EU-funded research - showcasing MSCA researchers and the impact their innovation has on EU citizens' daily lives.

We are calling on **you, MSCA fellows**, to present your research projects to approximately 5 000 young visitors.

The 2023 edition will take place once again **in-person** in Brussels on **16-17 March 2023** and we look forward to welcoming you and your work there!

### Factors to consider

The 2023 science fair will highlight the excellent activities and outreach materials developed by researchers and projects supported by MSCA, addressing these primarily to **teachers and pupils**. Your audience will consist of not only schoolchildren, but also families with children, young adults and more. With your help, we will offer them the chance to experience research hands-on, with exciting experiments that make research interesting and accessible.

All materials and exhibits should be adapted to the audience, and be communicated **in a clear and understandable way**. Do not worry about language barriers; students from local interpreting schools will be there to help deliver your message in French or Dutch when needed.

We are aware that it may be a challenge to translate your technical terms and processes into everyday words, therefore we will offer you the chance to participate in our communication workshop in the day preceding the event.

If your project is chosen, you will be able to attend with your supervisor or up to two colleagues from your project. The European Commission will cover your travel, accommodation and meals throughout the course of the exhibition. We will also help with adapting your experiment to the exhibition, and with transporting or purchasing any extra materials or equipment necessary for your stand.

### **Apply now**

If you are ready to join us in inspiring many fledgling future scientists at the next edition of Science is Wonderful!, please complete the **application form** below by **1 December 2022**. Our evaluation team will check and appraise each application regarding its feasibility, suitability, impact, and that they offer a balanced representation of research fields, nationalities, and gender.

Submit your materials and ideas below!

If you have any questions about the application process, please contact us on [EAC-MSCA-SIW@ec.europa.eu](mailto:EAC-MSCA-SIW@ec.europa.eu)

**We will inform you by the 9th January via email whether your application was successful.**

## Your project

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\* 1 MSCA Project Number

860436

\* 2 MSCA Project Title

EVIDENCE

\* 3 Short description of your project

*700 character(s) maximum*

1. Study of the Red Blood Cells in flow.
2. The determination of the increased permeabilities in physiological and pathophysiological cases.
3. Electrophysiological study of diseases related to Red Blood cells.

\* 4 Specify the research fields of your project:

- Chemistry
- Life Sciences
- Environment and Geosciences
- Social Sciences and Humanities
- Economic Sciences
- Physics
- Information Science and Engineering
- Mathematics

5 Social media presence of your project

Facebook	
Twitter	
Linkedin	
Instagram	
Website	evidence-itn.eu

\* 6 Do you have experience in outreach events?

- Yes
- No

7 If yes, please describe it - you can also include links to videos or pictures of your previous outreach activities.

*1000 character(s) maximum*

I participated in the Science fair that was organised by the biological station of Roscoff last October. We had the chance to meet the people from the corner and talk to them about our scientific work.

Link in Telegram journal: <https://www.letelegramme.fr/finistere/roscoff/le-village-des-sciences-installe-par-la-station-biologique-de-roscoff-a-seducit-les-visiteurs-09-10-2022-13196287.php>

\* 8 Would you be interested to attend a workshop on science communication and small networking activities the day prior to the science fair?

- Yes
- No
- Don't know

\*

9 What title do you propose for your stand?

*(Remember: the target audience of the event will be schools, youngsters and the broad public, so please avoid technical terms or scientific jargon. The title will be displayed above of your stand.)*

70 character(s) maximum

What's in our blood

\* 10 How do you plan on presenting your research?

*(Your presentation should be adapted to the target audience. Therefore, we encourage you to think of an engaging format such as hands-on experiments, science shows, virtual quizzes, giant board games, etc.)*

700 character(s) maximum

1. Introduce the public to the different elements composing the blood including Red Blood Cells which make the blood red.
2. Blood flow: Explain the importance of having a healthy and normal red blood cells.
3. Explain how the morphology of a RBC is important for normal circulation
4. Videos about red blood cells in capillaries and make them understand the importance of blood flow.

\* 11 How will you involve the visitors? Please describe the interactive elements in more detail.

700 character(s) maximum

1. Jelly-lemonade to tell why the blood is red. The jelly will be red and will represent the red blood cells: Sink the jelly in the lemonade: difference between red blood cells, white blood cells, plasma.
2. Blood flow: Use three straws to represent blood vessels. Close one of them in the middle with a rubber band, the other will be slightly closed, and the third open. Then let the children sip a raspberry juice to see how the blood flows easier in healthy vessels and that it's better to eat healthier.
3. Photos and videos of red blood cells smears in different diseases vs normal ones + making them produce RBCs in different shapes using red modeling clays.

12 If you would like to upload a sketch, picture or other illustration, please use the button below.

**4e6f06b6-171c-47bc-9176-846cf84cae5a/547ea8b970931b2b732ec9785d2e7cb5--science-cells-science-biology.jpg**

\* 13 Besides booths, the event will feature a central stage where researchers will be able to present their work to large audiences at once. Would you be interested to carry out a workshop there?

*(Possible formats include science shows, storytelling, plays, etc. Multi-lingual moderators will help get your message across to the audience and animate the show.)*

- Yes  
 No  
 Maybe. I need more information.

14 If yes, could you already share first thoughts about what your presentation would look like? Please note that the average length of a presentation should be maximum 30 minutes and allow for interaction with the audience.

700 character(s) maximum

First, I will tell the audience what is the blood, what are its components and why is it red. This is how I will start talking about the red blood cells(RBC). Then I will move to the roles of the RBCs, how they deliver oxygen and nutrients, etc.. This is why it's very important to have a good shape to be able to circulate and cross all the capillaries including the narrowest ones. I will show them that in some diseases, the red blood cells can have defectuous shapes that prevent them to circulate the way they should and this is what will cause a premature elimination of these cells from the circulation and this is how some people can suffer from anemia and other RBC- related diseases.

## Material

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Please note that:

- Each stand will have access to electricity, Wi-Fi and, if needed, water. Stands can also include a TV screen upon request.
- The European Commission will purchase some minor supplies and materials you might need for your activity, or cover the shipping costs of technical equipment you might need to ship to the exhibition.
- Science is Wonderful! is a green and paperless event and supply for the stands should be considered accordingly; please also plan the quantity and type of give-aways accordingly.
- For security reasons, some type of material might not be allowed; please indicate any alternative that could work.

Please specify below in detail all supplies (including any quantity of each product necessary) for your display.

\* 1 Which material will you bring yourself? Exact description and quantity.

I will only prepare the presentation, videos, and slides.

\* 2 Are any of these materials hazardous, flammable or dangerous in another way?

- Yes  
 No

3 If yes, please specify which material and whether it requires any special shipping or storing conditions:

\* 4 Which material will have to be delivered at the charge of the European Commission? Exact description and quantity.

- Jelly candies colored red and white (10 bags)
- Lemonade bottles: 10 bottles.
- transparent straws (2 bags).
- A rubber band.
- Raspberry juice (7 bottles).
- Red (10 boxes) and White modeling clays(3 boxes).
- Eco-cups: estimated the same of number of the participants.

\* 5 Are any of these materials hazardous, flammable or dangerous in another way?

- Yes
- No

6 If yes, please specify which material and whether it requires any special shipping or storing conditions:

## Personal Details

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Please fill one form per stand/project. Please note that (at least) two persons should staff each stand. The European Commission will cover the travel and accommodation of two people per project.

### Person 1 - Main applicant

\* 1 Title

- Mr
- Mrs
- Ms
- Mx
- Dr
- Prof
- I prefer not to say

\* 2 First name(s)

Aline

\* 3 Family name(s)

Hatem

\* 4 Email

alinahatem@gmail.com

\* 5 Telephone (Please use the following format - International Code + Phone number. E.g. 0032 0000000)

0033 619490329

\* 6 Nationality

LB - Lebanon

\* 7 Country of residence

FR - France

\* 8 Which languages do you speak? (Level required: enough to explain the research and interact with visitors. Please note that the majority of visitors speak/understand French or Dutch. The European Commission will put at the exhibitor's disposal interpreters to facilitate the exchanges with the visitors).

- English
- French
- Dutch
- Other EU language (please specify:)

## Person 2

10 Title

- Mr
- Mrs
- Ms
- Mx
- Dr
- Prof
- I prefer not to say

11 First name(s)

12 Family name(s)

13 Email

14 Telephone (Please use the following format - International Code + Phone number. E.g. 0032 0000000)

## 15 Nationality

- ID482 - Afghanistan
- ID483 - Albania
- ID484 - Algeria
- ID485 - Andorra
- ID486 - Angola
- ID487 - Antigua and Barbuda
- ID488 - Argentina
- ID489 - Armenia
- ID490 - Australia
- ID491 - Austria
- ID492 - Azerbaijan
- ID493 - Bahamas
- ID494 - Bahrain
- ID495 - Bangladesh
- ID496 - Barbados
- ID497 - Belarus
- ID498 - Belgium
- ID499 - Belize
- ID500 - Benin
- ID501 - Bhutan
- ID502 - Bolivia
- ID503 - Bosnia and Herzegovina
- ID504 - Botswana
- ID505 - Brazil
- ID506 - Brunei Darussalam
- ID507 - Bulgaria
- ID508 - Burkina Faso
- ID509 - Burundi
- ID510 - Cabo Verde
- ID511 - Cambodia
- ID512 - Cameroon
- ID513 - Canada
- ID514 - Central African Republic
- ID515 - Chad
- ID516 - Chile
- ID517 - China
- ID518 - Colombia
- ID519 - Comoros
- ID520 - Congo
- ID521 - Costa Rica
- ID526 - Côte D'Ivoire
- ID522 - Croatia
- ID523 - Cuba
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- ID524 - Cyprus
- ID525 - Czechia
- ID527 - Democratic Republic of the Congo
- ID528 - Denmark
- ID529 - Djibouti
- ID530 - Dominica
- ID531 - Dominican Republic
- ID532 - Ecuador
- ID533 - Egypt
- ID534 - El Salvador
- ID535 - Equatorial Guinea
- ID536 - Eritrea
- ID537 - Estonia
- ID538 - Eswatini
- ID539 - Ethiopia
- ID540 - Fiji
- ID541 - Finland
- ID542 - France
- ID543 - Gabon
- ID544 - Gambia
- ID545 - Georgia
- ID546 - Germany
- ID547 - Ghana
- ID548 - Greece
- ID549 - Grenada
- ID550 - Guatemala
- ID551 - Guinea
- ID552 - Guinea Bissau
- ID553 - Guyana
- ID554 - Haiti
- ID555 - Honduras
- ID556 - Hungary
- ID557 - Iceland
- ID558 - India
- ID559 - Indonesia
- ID560 - Iran
- ID561 - Iraq
- ID562 - Ireland
- ID563 - Israel
- ID564 - Italy
- ID565 - Jamaica
- ID566 - Japan
- ID567 - Jordan
- ID568 - Kazakhstan
- ID569 - Kenya
- ID570 - Kiribati
- ID571 - Kuwait

- ID572 - Kyrgyzstan
- ID573 - Laos
- ID574 - Latvia
- ID575 - Lebanon
- ID576 - Lesotho
- ID577 - Liberia
- ID578 - Libya
- ID579 - Liechtenstein
- ID580 - Lithuania
- ID581 - Luxembourg
- ID582 - Madagascar
- ID583 - Malawi
- ID584 - Malaysia
- ID585 - Maldives
- ID586 - Mali
- ID587 - Malta
- ID588 - Marshall Islands
- ID589 - Mauritania
- ID590 - Mauritius
- ID591 - Mexico
- ID592 - Micronesia
- ID593 - Monaco
- ID594 - Mongolia
- ID595 - Montenegro
- ID596 - Morocco
- ID597 - Mozambique
- ID598 - Myanmar
- ID599 - Namibia
- ID600 - Nauru
- ID601 - Nepal
- ID602 - Netherlands
- ID603 - New Zealand
- ID604 - Nicaragua
- ID605 - Niger
- ID606 - Nigeria
- ID607 - North Korea
- ID608 - North Macedonia
- ID609 - Norway
- ID610 - Oman
- ID611 - Pakistan
- ID612 - Palau
- ID613 - Panama
- ID614 - Papua New Guinea
- ID615 - Paraguay
- ID616 - Peru
- ID617 - Philippines
- ID618 - Poland

- ID619 - Portugal
- ID620 - Qatar
- ID621 - Republic of Moldova
- ID622 - Romania
- ID623 - Russian Federation
- ID624 - Rwanda
- ID625 - Saint Kitts and Nevis
- ID626 - Saint Lucia
- ID627 - Saint Vincent and the Grenadines
- ID628 - Samoa
- ID629 - San Marino
- ID630 - Sao Tome and Principe
- ID631 - Saudi Arabia
- ID632 - Senegal
- ID633 - Serbia
- ID634 - Seychelles
- ID635 - Sierra Leone
- ID636 - Singapore
- ID637 - Slovakia
- ID638 - Slovenia
- ID639 - Solomon Islands
- ID640 - Somalia
- ID641 - South Africa
- ID642 - South Korea
- ID643 - South Sudan
- ID644 - Spain
- ID645 - Sri Lanka
- ID646 - Sudan
- ID647 - Suriname
- ID648 - Sweden
- ID649 - Switzerland
- ID650 - Syrian Arab Republic
- ID651 - Tajikistan
- ID652 - Tanzania
- ID653 - Thailand
- ID654 - Timor-Leste
- ID655 - Togo
- ID656 - Tonga
- ID657 - Trinidad and Tobago
- ID658 - Tunisia
- ID659 - Turkey
- ID660 - Turkmenistan
- ID661 - Tuvalu
- ID662 - Uganda
- ID663 - Ukraine
- ID664 - United Arab Emirates
- ID665 - United Kingdom

- ID666 - United States of America
- ID667 - Uruguay
- ID668 - Uzbekistan
- ID669 - Vanuatu
- ID670 - Venezuela
- ID671 - Viet Nam
- ID672 - Yemen
- ID673 - Zambia
- ID674 - Zimbabwe

#### 16 Country of residence

- ID38 - Afghanistan
- ID43 - Albania
- ID44 - Algeria
- ID45 - Andorra
- ID46 - Angola
- ID47 - Antigua and Barbuda
- ID48 - Argentina
- ID49 - Armenia
- ID50 - Australia
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- ID257 - Zimbabwe

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- English
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- Dutch
- Other EU language (please specify:)

**19 Science is Wonderful! 2023 - Privacy Statement**

[Privacy Statement Science is Wonderful Event Competition.pdf](#)

**I have read and accept the event's Privacy Statement**

**Contact**

EAC-MSCA-SIW@ec.europa.eu



