EUCYS 2023 Prizes

34th European Union Contest for Young Scientists, Brussels

The First Prize

Name	Nationality	Project title
Maksymilian Gozdur	Poland	Justice institutions stipulated in French and Polish criminal procedure codes, and fair trial standards included in international law standards and convict rehabilitation
Elizabeth Chen	Canada	Optimization of CAR-T Cell Therapy using RNA- Sequencing Analysis for Biomarker Identification
Martin Stengaard Sørensen	Denmark	Development of small regeneratively cooled rocket propulsion systems
Afonso Jorge Soares Nunes Inês Alves Cerqueira Mário Covas Onofre	Portugal	SPIDER-BACH2

The Second Prize

Name	Nationality	Project title
Clément Hervé Joël Vovard	Netherlands	Developing and testing a Lagrangian model of the floating-arm trebuchet
Arushi Nath	Canada	Developing Algorithms to Determine an Asteroid's Physical Properties and the Success of Deflection Missions
Liam Brendan Carew Shane O'Connor	Ireland	Assessing the Impact of Second-Level Education on Key Aspects of Adolescents' Life and Development'
Filippo Mutta	Italy	Operating Systems: The Key To A New World

The Third Prize

Name	Nationality	Project title
Lyubomir Andonov Nenov	Bulgaria	Dynamic Proactive Secret Sharing for Confidential Byzantine Fault-Tolerant Services using Multi-party Computation
Alex Kanderka Jozef Jabczun	Slovakia	Remediation of polychlorinated biphenyls (PCBs) and heavy metals via sustainable removal techniques
Aias Tatsis	Greece	Development and evaluation of a hybrid solar-thermoelectric power generation system in a marine environment and usage of hydrodynamic propulsion
Mert Kemal Uçkan Emel Karahan	Germany	Modelling of a population during climate change

SIYSS

Name	Nationality	Project title
Maksymilian Gozdur	Poland	Justice institutions stipulated in French and
		Polish criminal procedure codes, and fair trial
		standards included in international law standards and convict rehabilitation
Clément Hervé Joël Vovard	Netherlands	Developing and testing a Lagrangian model of the floating-arm trebuchet

LIYSF

Name	Nationality	Project title
Filippo Mutta	Italy	Operating Systems: The Key To A New World

ESA

Name	Nationality	Project title
Martin Stengaard Sørensen	Denmark	Development of small regeneratively cooled rocket propulsion systems

CERN

Name	Nationality	Project title
Szilveszter Laskai	Hungary	Design of traction inverter with SiC semiconductors

EUROFusion

Name	Nationality	Project title
Anastasia Bolkvadze Irakli Veshapeli	Georgia	Making a High-Aperture Varifocal Membrane Reflector Telescope

ESRF

Name	Nationality	Project title
Iļja Niks Stoligvo	Latvia	Empirical prediction of chalcopyrite
		lattice parameters from chemical
		properties of their constituent elements

EMBL

Name	Nationality	Project title
Marina Sokolova	Czechia	Study of the R38-K40 ribosome binding site
		in the Rack1 protein using the Morg1 protein
		model

ESO

Name	Nationality	Project title
Julian Seeholzer	Switzerland	Theoretical and Experimental Analysis of a
		Generalised Brachistochrone Problem for
		Mechanical Systems Including Coulomb
		Friction and Rotational Motion

ILL

Name	Gender/Age/Nat.	Project title
Charlotte Klar Katharina Austermann	Germany	Thermally triggered motion of pyrolytic graphite on a magnet array

XFEL

Name	Nationality	Project title
Afonso Jorge Soares Nunes	Portugal	SPIDER-BACH2
Inês Alves Cerqueira		
Mário Covas Onofre		

CNIC Prize

Name	Nationality	Project title
Sachi Premaratne	Sweden	Antibodies targeting transient receptor
		potential vanilloid 1 as potential drug
		candidates for the treatment of chronic pain

CBE JU

Name	Nationality	Project title
Elisa Jääskeläinen	Finland	Valuable Products from Waste Cotton –
		Optimising the Pre-treatment of Cellulose
		Nanocrystal Production

International Swiss talent forum

Name	Nationality	Project title
Shachar Perlman	Israel	Using network centrality measures as
Jonathan Halperin		predictors of gene drive deployment
		outcomes

Expo-Sciences Luxembourg

Name	Nationality	Project title
Nanna Elizabeth Rosa Kalmar	Denmark	Let There Be (Optimal) Light

EuCheMS

Name	Nationality	Project title
Martyna Kniazevaitė	Lithuania	Reduction of Perchlorate Ion Concentrations in Martian Soil using Azospira oryzae

Bulgarian Workshop on Coding Theory

Name	Nationality	Project title
Szymon Perlicki	Poland	A Novel Method of Constructing Block
		Ciphers Resistant to Linear and Differential
		Cryptanalysis

Regeneron ISEF 2024 Los Angeles, California (May 2024)

Name	Nationality	Project title
Felix von Ludowig Tim Arnold	Germany	Rekari – the intuitive platform for diverse drone operations
Deyan Deyanov Hadzi-Manich	Bulgaria	A Graph Isomorphism Kernel Based on k- Vertex Connectivity and its Application in Graph Neural Networks