



EU Contest for
Young Scientists
Katowice 2024



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Country	Project ID	Contestants	Title	Prizes
Poland	Chemistry-10	Piotr Olbryś (19)	Design of new pyrene-4,5,9,10-tetraone-based heterocyclic derivatives as high-capacity organic cathode materials: a density functional theory study	The First Prize SIYSS
USA	Environment-09	Nikhil Vemuri (16)	ANOMaLY: A Real-Time Globalized System for Effective Regional Mitigation of Agricultural Nitrous Oxide Emissions	The First Prize
Austria	Environment-08	Lamia Music (15)	Sustainable and Advanced Approaches to Dye-Sensitized Solar Cells	The First Prize LIYSF
Bulgaria	Physics-12	Aleksandra Petkova (17)	Theoretical and Experimental Investigation of Ship Wakes	The First Prize SIYSS Regeneron ISEF 2025
Ireland	Computing-10	Seán O'Sullivan (18)	VerifyMe: A new approach to authorship attribution in the post-ChatGPT era	The Second Prize Regeneron ISEF 2025
Slovakia	Chemistry-06	Adam Kovalcik (18)	Design and synthesis of new green furan-based hemisynthetic perfumery compounds derived from agricultural waste	The Second Prize LIYSF

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Netherlands	Physics-14	Leon Verreijdt (17)	Designing, building, and testing a multi-wire proportional chamber	The Second Prize CERN
Canada	Medicine-10	Ann Wang (17)	Eradicating Cystic Fibrosis Biofilms by a Novel Non-Toxic, Multi-Pathway Salicylate Therapy	The Second Prize Medical University of Silesia Prize
Canada	Computing-03	Angela Cao (15)	S2S: AI-Powered Translation Between Sign and Spoken Languages	The Third Prize
Switzerland	Computing-06	Nicolas Dominic Huber (19)	Pushing the Limits - Active Safety in Paragliding	The Third Prize Transform4Europe study visit
Lithuania	Medicine-08	Kamilė Milkintaitė (19)	Towards Improved Brain Tumor Treatment: Novel Therapeutic and Diagnostic Targets	The Third Prize World EXPO 2025
Hungary	Chemistry-04	Márton Krisztián Hegedűs (19)	Photocatenane - Robotics on the Molecular Level	The Third Prize World EXPO 2025
Luxembourg	Computing-08	Ido Somekh (14) Leonardo Magnani (14)	AllergyScan	Jury Special Award

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Bulgaria	Computing-02	Delyan Lyubomirov Boychev (18)	SYNTHETIC IMAGE DETECTION VIA SUPERVISED CONTRASTIVE LEARNING	ESA - (European Space Agency Prize)
Germany	Physics-08	Julius Gutjahr (17) Maja Leber (16)	New insights on antibubbles	EUROFusion Prize
Italy	Biology-01	FEDERICO BERGO (18)	DSUP Project	ESRF - The European Synchrotron Radiation Facility Prize
Israel	Biology-08	Nathaniel Kashani (17)	T cell engineering as a treatment for IgE-mediated allergy	EMBL - The European Molecular Biology Laboratory
Finland	Computing-07	Manu Kiiskilä (20)	Evolving Deep Architectures: A New Blend of CNNs and Transformers Without Pre-Training Dependencies	ESO (the European Southern Observatory Prize)
Czechia	Mathematics-03	Nikolas Pippal (18)	Intraoperative Brain Tumor Detection Using Raman Spectroscopy Data and Machine Learning	ILL - The Institute Laue-Langevin Prize
Switzerland	Mathematics-04	Jakob Quinten Schildhauer (19)	Seeing Sound – A New Method For Measuring Vibrations With Cameras	XFEL - EuXFEL (The European X-Ray Free-Electron Laser Facility Prize)

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Slovakia	Medicine-07	Ludmila Kvasnovska (19)	Potential biomarkers of age-related chronic inflammation	Prize to visit CNIC in Spain
Slovenia	Chemistry-07	Julija Skrt (20) Jaša Krevh (19)	INFLUENCE OF HYDROLYTIC ENZYMES ON ANTIOXIDANT EFFICIENCY OF OLIVE LEAF EXTRACTS	Circular Bio-based Europe Joint Undertaking Prize
USA	Engineering-10	Jack Christopher Shannon (19)	Global Carbon Sinks: Remote Sensing for Monitoring Peatland Restoration	Swiss Talent Forum Prize
South Korea	Materials-02	Hanseon Kim (17)	The Future of Carbon Capture Technology: A Novel Moisture Powered Thin-Film Supercapacitor that Adsorbs Carbon Dioxide	Swiss Talent Forum Prize
Romania	Engineering-04	Alexandru Turculeț (18) Tudor Dochia (17)	Complete Solution for PCB Assembly (Kinetic Assemblies)	Expo-Sciences Luxembourg Prize
Czechia	Chemistry-03	Janis Bojko (20)	Synthesis of new selective-dual inhibitors of cyclin-dependent kinases	EuCheMS Prize

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Estonia	Social sciences-05	Annika Moppel (19)	RUSSIA'S PROPAGANDA IN THE INFORMATION WAR: THE EXAMPLES OF THE FIRST CRIMEAN BRIDGE EXPLOSION AND PROPAGANDA USED BY ROSSIYSKAYA GAZETA	Transform4Europe study visit
Switzerland	Medicine-01	Nora Lara Artico (20)	Bacteriophages: a glimmer of hope in medicine - when antibiotics fail to treat bacterial infections	Transform4Europe study visit
South Korea	Environment-06	Yujeong Ha (17)	Innovating Crop Protection: Jeju Soil Bacteria-Powered Sea Breeze-Responsive Vaccine System	Silesian Science Festival Prize
Germany	Engineering-08	Ediz Osman (20)	Pioneering the Development of a Carbon-Free VTOL Jet for Civil Aviation	Silesian University of Technology Prize
Egypt	Computing-01	Mohamed Abdalla (16) Mohamed Farrag (17)	Mouseless Mouse	University of Economics Katowice Prize
Denmark	Medicine-09	Ridhima Pal (17)	BMI vs. Body Fat Percentage	Medical University of Silesia Prize

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Poland	Medicine-11	Aleksander Zieliński (16)	Impact of the ability to block the pathogenesis of autoimmune diseases with newly designed Fab domains of anti-Baff, anti-April antibodies	Medical University of Silesia Prize
Ukraine	Mathematics-02	Artem Kovtun (16)	Research of the dynamics of a non-binary system with a directed influence	Workshop on Coding Theory

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