



Summer School “The Path to Scientific Discoveries”



A success story



Summer School “The Path to Scientific Discoveries”



ACADEMY OF SCIENCES OF MOLDOVA

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Foreword

**Academician Ion Tighineanu,
President of the Academy of Sciences of Moldova**



The Summer School “*The Path to Scientific Discoveries*” has become, in just a few years, a landmark of academic excellence and intergenerational dialogue in the Republic of Moldova. Initiated with the aim of bringing young people closer to research and opening new horizons toward scientific careers, this educational platform has demonstrated that investing in knowledge is one of the surest paths toward sustainable development and societal progress.

The three editions held so far have brought together school pupils and university students from across the country, offering them the opportunity to interact directly with world-renowned scientists, Nobel Prize laureates, and outstanding personalities from the international academic and professional communities. The comprehensive program, which included lectures, interactive sessions, and visits to research laboratories, has contributed to strengthening the link between education and science, while stimulating curiosity, critical thinking, and young participants' aspirations for knowledge.

Throughout its editions, the Summer School has had the honor of hosting distinguished personalities, including Nobel Prize laureates Hiroshi Amano, Konstantin Novoselov, Richard Roberts, James Rothman, and Rattan Lal, alongside renowned scientists and academic leaders such as Klaus Mainzer, Sierd Cloetingh, Anthony Watts, Ioan-Aurel Pop, Marius Andruh, Nicolae-Victor Zamfir, Marian Enache, Stephanie Boyce, Eva Kondrosi, Kornelius Nielsch, Juras Banys, and many others. The participation of these personalities has given the event an authentic international dimension and has consolidated the status of the Academy of Sciences of Moldova as a promoter of excellence in research and education.

Representatives of the academic community of the Republic of Moldova — members of the Academy of Sciences of Moldova and distinguished researchers — have also contributed with great responsibility and dedication to the organization and successful conduct of the Summer School. Among them are Eva Gudumac, Constantin Gaidric, Stanislav Groppa, Aurelian Gulea, Viorel Prisăcari, and other prominent personalities of the national scientific community. Through their contributions, our scientists have actively supported this initiative and strengthened the academic, interdisciplinary, and formative character of the event.

Through its continuity, international openness, and thematic diversity, the Summer School “*The Path to Scientific Discoveries*” has demonstrated that it can become a true catalyst for scientific vocations. It represents not only an educational project, but also a strategic investment in the country's future, contributing to the formation of a new generation of researchers, innovators, and leaders of knowledge.

The Academy of Sciences of Moldova reaffirms its commitment to supporting and developing this initiative, expanding international cooperation, and creating new opportunities for young people passionate about science. We are firmly convinced that such projects will continue to inspire, connect generations, and shape the European future of the Republic of Moldova.

SUMMER SCHOOL
the 1st edition
“The Path to Scientific Discoveries”

THE PATH
TO SCIENTIFIC
DISCOVERIES



13 – 16 June 2023

Keynote speakers:

Prof. Hiroshi AMANO, Nobel Prize Laureate in Physics (2014), Nagoya University, Japan

Prof. Richard ROBERTS, Nobel Prize Laureate in Medicine (1993), New England Biolabs, USA, **Dr. Iuliana POPESCU**, University of Kentucky, USA,

Prof. Sierd CLOETINGH, Distinguished Professor Utrecht University, The Netherlands,

Prof. Eva KONDOROSI, Biological Research Centre, Szeged, Hungarian Academy of Sciences, Academia Europaea,

Prof. Anthony WATTS, Biochemistry Dept., University of Oxford, UK; President-elect (2021-24), Int. Union Pure & Applied Biophysics,

Ass. Prof. Viktoriya NEDEVA-ATANASOVA, PhD, Jr. Expert in Career Center of TC-BAS, Bulgaria, **Prof. Ioan DUMITRACHE**, Romanian Academy and other personalities

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InfoGroup



PROGRAM

Academy of Sciences of Moldova,
1, Stefan cel Mare si Sfânt Ave

*The Summer School was organized in cooperation with
the Romanian Academy and the Young Academy of the Republic of Moldova*

Tuesday, June 13, 2023

Blue Hall

9.00	Registration of participants	
9.45	Opening of the Summer School Acad. Ion Tighineanu, President of the Academy of Sciences of Moldova	
10.00	Prof. Hiroshi AMANO, Nobel Prize Laureate in Physics (2014), Nagoya University, Japan	<i>What are the most important characteristics of a scientist?</i>
11.00	Prof. Ioan DUMITRACHE, Romanian Academy	<i>Automatics – Intelligence - Autonomy</i>
11.30	Prof. Ion TIGHINEANU, Academy of Sciences of Moldova	<i>Nanotechnologies are changing the world</i>
12.00	Lunch break	
13.00	Prof. Constantin GAINDRIC, Institute of Mathematics and Informatics, State University of Moldova	<i>Decision support systems</i>
13.30	Dr. Gabriela ROMANCIUC, Academy of Sciences of Moldova	<i>Plant genetic resources for food and agriculture</i>
14.00	Elena CULIGHIN, Institute of Chemistry, State University of Moldova, Moldova Young Academy	<i>Water resource quality in the context of climate change</i>
14.30	Dr. Iuliana POPESCU, University of Kentucky, USA	<i>At the crossroad of molecular pharmacology with diabetes research</i>
15.00	Visit to the research laboratories <i>National Center for Space Technologies;</i> <i>National Center for Materials Study and Testing;</i> <i>Laboratory of Oenology and Chemistry</i>	

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Wednesday, June 14, 2023

Small Hall

9.00	Dr. Tudor BRANISTE , Technical University, Moldova Young Academy	<i>Nanostructured materials and nanomedicine</i>
9.30	Dr. Roman RUSNAC , State University, Moldova Young Academy	<i>The design of pharmaceutical products</i>
10.00	Acad. Boris GAINA , Academy of Sciences of Moldova	<i>Recent advancements in the agricultural biotechnology</i>
10.20	<i>Coffee break</i>	
10.40	Tatiana MALCOVA , "Nicolae Testemitanu" State University of Medicine and Pharmacy, Moldova Young Academy	<i>Tissue engineering and regenerative medicine</i>
11.00	Dr. hab. Liliana CONDRATICOVA , Academy of Sciences of Moldova	<i>Historical-architectural aspects of the manors and manorial parks in Bessarabia</i>
11.30	Prof. Aurelia TOMSA , Academy of Economic Studies	<i>Entrepreneurship as the basis of economic development</i>
13.00	Lunch break	
14.00	Blue Hall Public lectures at the Academy of Sciences of Moldova	
15.30	Visit to the Institute of Zoology mem. cor., professor Laurentia UNGUREANU "Fauna of the Republic of Moldova under the conditions of climate change"; mem. cor., professor Elena ZUBCOV "The state of aquatic ecosystems on the territory of the Republic of Moldova"	

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Thursday, June 15, 2023

Small Hall

10.00	Acad. Eva GUDUMAC, Prof. Ina PALII, Prof. Svetlana SCIUCA, Institute of Mother and Child, Academy of Sciences of Moldova	<i>The COVID-19 influence on children health</i>
10.40	Prof. Valeriu FALA, "Nicolae Testemitanu" State University of Medicine and Pharmacy	<i>Stomatology and oral health</i>
11.10	Acad. Stanislav GROPPA, "Nicolae Testemitanu" State University of Medicine and Pharmacy	<i>Neurology of the acute states and Neurogenetics</i>
11.30	Ass. Prof. Viktoriya NEDEVA-ATANASOVA, PhD, Jr. Expert in Career Center of TC-BAS, Bulgaria	<i>The Career Center of the Bulgarian Academy of Sciences in favour of the early development of young scientists and PhD students</i>
12.00	Lunch break	
13.00	Prof. Sierd CLOETINGH, Distinguished Professor Utrecht University, The Netherlands	<i>System Earth, Geo-environment and Geo-energy: Europe as a natural laboratory</i>
14.00	Prof. Eva KONDOROSI, Biological Research Centre, Szeged, Hungarian Academy of Sciences; Chair of Life Sciences, Academia Europaea	<i>Biological nitrogen fixation in Rhizobium-legume symbiosis</i>
15.00	Prof. Anthony WATTS, Biochemistry Dept., University of Oxford, UK; President-elect (2021-24), Int. Union Pure & Applied Biophysics	<i>What Biophysics has done for us</i>

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16.00	Prof. Richard ROBERTS, Nobel Prize Laureate in Medicine (1993), New England Biolabs, USA	<i>The Path to the Nobel Prize</i>
17.00	Closing Ceremony. Awarding certificates	

Friday, June 16, 2023

10:00 – 14:00 Visit to the research laboratories of the

"Alexandru Ciubotaru" Botanical Garden, USM

Dr. Maria TABARA – *"Plant propagation through invitro culture"*

The 1st edition of the Summer School "The Path to Scientific Discoveries" took place between **June 13 to 16, 2023**. The event was organized for pupils and students from all over the country by the Academy of Sciences of Moldova in partnership with the European Academy of Sciences and Arts, the Romanian Academy, the Academy of Legal Sciences of Romania, and the Moldova Young Academy, with the financial support of the European Commission.

The program provided to the participants the opportunity to learn from international experts and involve themselves in the practical activities and interactive sessions. Pupils appreciated the activities carried out in their schools and visits to the research laboratories as contributing to personal development, career guidelines, and a profound understanding of research activities.

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SUMMER SCHOOL
the 2nd edition
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**THE PATH
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27-31 August 2024

Keynote speakers:

Prof. Klaus MAINZER, President of the European Academy of Sciences and Arts,
Salzburg, Austria,

Prof. Anthony WATTS, University of Oxford, UK, President of the International Union of
Pure and Applied Biophysics,

Prof. Rattan LAL, The Ohio State University, USA, winner of the Nobel Peace Prize and the
World Food Prize,

Prof. Konstantin NOVOSELOV, Manchester University, UK, National University of
Singapore, Laureate of Nobel Prize in Physics (2010),

I. Stephanie BOYCE, Former president of the Law Society of England and Wales,

Robert WILLIAMS, Director/Editor in Chief of British News Agency News247WorldPress,

Prof. Ioan-Aurel POP, President of the Romanian Academy,

Prof. Nicolae ZAMFIR, vice-president of the Romanian Academy

Prof. Violeta DINESCU, European Academy of Sciences and Arts, Salzburg, Austria

Dr. Marian ENACHE, President of the Constitutional Court of Romania

Prof. Bogdan CIUCA, President of the Academy of Legal Sciences from Romania,

Prof. Norina Consuela FORNA, Iași, Romania,

and other personalities

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PROGRAM

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Tuesday, August 27th, 2024
Blue Hall

13.00	Registration of participants	
13.45	<p>Opening Ceremony of the Summer School Opening message Acad. Ion Tighineanu, President of the Academy of Sciences of Moldova</p> <p>Greeting messages H. E. Cristian-Leon Turcanu, Extraordinary and Plenipotentiary Ambassador of Romania to the Republic of Moldova</p> <p>Dr. Nadejda VELISCO, General Secretary of the Ministry of Education and Research of the Republic of Moldova</p>	
14.00	<p>Prof. Ioan-Aurel POP, President of the Romanian Academy, honorary member of the Academy of Sciences of Moldova</p>	<i>Contemporary education through history</i>
14.45	<p>Prof. Klaus MAINZER, President of the European Academy of Sciences and Arts, Salzburg, Austria</p>	<i>Lecture on artificial intelligence</i>
15.30	<p>Valeriu MATEI, corresponding member of ASM, director of Romanian Academy Publishing House</p>	<i>Book launch and donations for participants</i>

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Wednesday, August 28th, 2024
Blue Hall

9.00	Prof. Nicolae ZAMFIR, vice-president of the Romanian Academy	<i>Scientific research in physics</i>
9.45	Prof. Viorel BOSTAN, Rector of the Technical University of Moldova	<i>Development of the first satellite in the Republic of Moldova</i>
10.30	<i>Coffee break</i>	
11.00	Prof. Aurelian GULEA, State University of Moldova	<i>Cancer treatment perspectives</i>
11.45	Dr. Roman RUSNAC, State University of Moldova, Young Academy of Moldova	<i>New biologically active compounds based on thiosemicarbazones and coordination combinations of some biometals</i>
12.30	<i>Lunch break</i>	
14.00	Prof. Violeta DINESCU, European Academy of Sciences and Arts, Salzburg, Austria	<i>Degrees of freedom in Vuza Canon</i>
15.00 18.00	Visit to the Technical University of Moldova: <i>National Center for Materials Study and Testing</i> <i>(presentation of nanotechnologies and nanomaterials, including Aerogalnite);</i> <i>National Center of Space Technologies</i>	

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Thursday, August 29th, 2024

Blue Hall

9.00	Prof. Emil CEBAN, corresponding member of ASM, Rector of the State University of Medicine and Pharmacy „Nicolae Testemitanu”	<i>Medicine and health – national priority</i>
9.45	Prof. Viorel PRISACARI, corresponding member of ASM, State University of Medicine and Pharmacy „Nicolae Testemitanu”	<i>The role of scientists in discovering the essence of epidemics</i>
10.30	<i>Coffee break</i>	
11.00	Prof. Viorel NACU, State University of Medicine and Pharmacy „Nicolae Testemitanu”	<i>Artificial tissues and organs – new strategies</i>
11.40	Prof. Svetlana SCIUCA, corresponding member of ASM, State University of Medicine and Pharmacy „Nicolae Testemitanu”	<i>The particularities of broncho-pulmonary changes in post-Covid patients</i>
12.20	Prof. Silvia RAILEANU, State University of Medicine and Pharmacy „Nicolae Testemitanu”	<i>Oral health for children</i>
13.00	<i>Lunch break</i>	
14.00	Prof. Anthony WATTS, University of Oxford, UK, President of the International Union of Pure and Applied Biophysics	<i>What is biophysics</i>
14.45	Dr. Svetlana SMEREA, Institute of Genetics and Plant Physiology, State University of Moldova	<i>The applicability of biotechnologies in solving the problems of genetics and plant breeding</i>
15.30 18.00	Visit to the Institute of Genetics and Plant Physiology, State University of Moldova	

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Friday, August 30th, 2024
Blue Hall

9.00	Acad. Alexandru STRATAN , corresponding member of ASM, Rector of the Academy of Economic Studies in Moldova	<i>Discover Economics: How Economics Studies Can Influence Your Future</i>
9.45	I. Stephanie BOYCE , Former president of the Law Society of England and Wales, Robert WILLIAMS , Director/Editor in Chief of British News Agency News247WorldPress	<i>A fundamental right, the freedom to access justice</i>
10.30	<i>Coffee break</i>	
11.00	Dr. Marian ENACHE , President of the Constitutional Court of Romania	<i>Young people – Explorers and promoters of the intelligence of the future</i>
11.45	Prof. Bogdan CIUCA , President of the Academy of Legal Sciences from Romania	<i>Genuine justice between divine norm and artificial intelligence</i>
12.30	<i>Lunch break</i>	
14.00	Prof. Rattan LAL , The Ohio State University, USA, Nobel Peace Prize and World Food Prize (2020), honorary member of the Academy of Sciences of Moldova	<i>How researchers contribute to addressing the challenges of the XXI Century</i>

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14.25	Prof. Boris BOINCEAN, World Food Prize (2020), honorary member of the Academy of Sciences of Moldova, corresponding member of the ASM	<i>Basic principles in sustainable soil management</i>
14.45	Prof. Norina Consuela FORNA, Iași, Romania, honorary member of the Academy of Sciences of Moldova	<i>Placement of future medical students in the labor market: evidence based on completed projects</i>
15.30	<i>Coffee break</i>	
16.00	Prof. Konstantin NOVOSELOV, Manchester University, UK, National University of Singapore, Laureate of Nobel Prize in Physics (2010), honorary member of the Academy of Sciences of Moldova	<i>Materials for the future</i>

Saturday, 31st of August, 2024

10.00 – 13.00 National Holiday „Romanian Language Day”

*The end of the Summer School and
the handing out of certificates in a festive meeting*

The 2nd edition of the Summer School "The Path to Scientific Discoveries" took place between **August 27 to 31, 2024**. The event was organized for pupils and students from all over the country by the Academy of Sciences of Moldova in partnership with the European Academy of Sciences and Arts, the Romanian Academy, and the Moldova Young Academy, with the financial support of the European Commission. The Program offered to the participants a great opportunity to learn from international experts, involve in the practical activities and interactive sessions.

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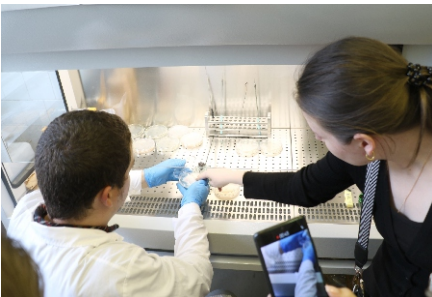
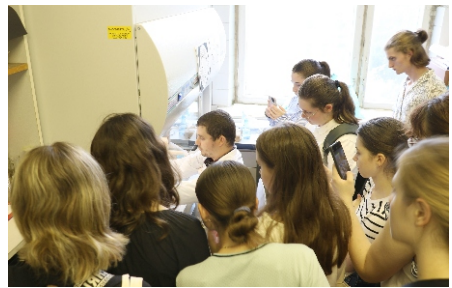
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SUMMER SCHOOL
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THE PATH
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DISCOVERIES



Summer
SCHOOL

23 – 27 June 2025

Keynote speakers:

Prof. James ROTHMAN, Yale University, USA, Nobel Laureate in Medicine,
Prof. Klaus MAINZER, President of the European Academy of Sciences and Arts,
Salzburg, Austria, **Acad. Marius ANDRUH**, Vice-president of the Romanian Academy,
Prof. Bogdan CIUCA, President of the Romanian Academy of Legal Sciences,
Prof. Kornelius NIELSCH, IFW Dresden, Germany,
Prof. Juras BANYS, President of the Academy of Sciences of Lithuania,
Prof. Rattan LAL, Peace Nobel Prize Laureate, Ohio State University, USA,
PhD Marian ENACHE, President of the Constitutional Court of Romania,
PhD Stephanie BOYCE FKC, The Law Society of England and Wales, UK
and other personalities

SUMMER SCHOOL
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On **June 23, 2025** the 3rd edition of the Summer School "The Path to Scientific Discoveries" was launched and organized for pupils and students from all over the country by the Academy of Sciences of Moldova in partnership with the Romanian Academy, the Moldova Young Academy, with the financial support of UNESCO. The event took place between **June 23 to 27, 2025**. The Program offered to the participants the opportunity to learn from international experts and involve in practical activities, and interactive sessions.



PROGRAM

Academy of Sciences of Moldova,
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<i>Monday, June 23, 2025</i> <i>Blue Hall</i>	
13.30	Registration of participants
13.45	Opening Ceremony of the Summer School Opening message Acad. Ion Tighineanu, President of the Academy of Sciences of Moldova
14.00	Prof. James ROTHMAN, School of Medicine, Yale University, USA, Nobel Prize Laureate in Medicine <i>Why is Basic Research Important</i>
15.00	Prof. Klaus MAINZER, President of the European Academy of Sciences and Arts, Salzburg, Austria <i>Artificial Intelligence</i>
16.00	Acad. Aurelian GULEA, State University of Moldova <i>Prospects for cancer treatment</i>

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Tuesday, June 24, 2025

Blue Hall

9.00 9.45	Acad. Eva GUDUMAC, Vice President of the Academy of Sciences of Moldova	<i>Risk factors in adolescent health</i>
9.45 10.30	Prof. Irina-Iuliana COSTACHE-ENACHE, St. Spiridon County Emergency Clinical Hospital, Iasi, Romania	<i>Take care of your heart - what are the cardiovascular risk factors?</i>
10.30	<i>Coffee break</i>	
11.00	Prof. Ioannis LIRITZIS, European Academy of Sciences and Arts, Salzburg, Austria	<i>STEM in Arts & Cultural Issues (STEMAC) (An introduction and some case studies)</i>
11.45	Prof. Andrei ROTARU, Babes-Bolyai University & Institute of Physical Chemistry-Ilie Murgulescu, Romanian Academy	<i>The porous medium model to describe society</i>
12.30	Lunch break	
14.00	Prof. Nicolae CHELE, "Nicolae Testemitanu" State University of Medicine and Pharmacy	<i>Oral and maxillofacial surgery as a component of dentistry</i>
14.45	Dr. Iuliana POPESCU, Kentucky Academy of Sciences (Education & Engagement Committee), Barnstable Brown Diabetes Center, USA	<i>Why do we age? Is rejuvenation possible?</i>
15.30	Prof. Xiao-Yu YANG, Wuhan University of Technology, China	<i>The Balance Between Fundamental Education and Frontier Science</i>

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Wednesday, June 25, 2025

Blue Hall

9.00	Prof. Viorel NACU, "Nicolae Testemitanu" State University of Medicine and Pharmacy	<i>Artificial tissues and organs – new strategies</i>
9.45	Corr. mem Liliana CEPOL, Institute of Microbiology and Biotechnology, Technical University of Moldova	<i>Tomorrow's biotechnology or the future in a test tube</i>
10.30	<i>Coffee break</i>	
11.00	Stephanie BOYCE FKC, The Law Society of England and Wales and Robert WILLIAMS, News247WorldPress	<i>The population's access to justice and legal services, the evolution of justice around the world, legal education and its role.</i>
11.45	Prof. Liviu-Bogdan CIUCA, President of the Academy of Legal Sciences, President of the Legal, Discipline and Immunities Committee of the Chamber of Deputies of Romania	<i>The survival of the goddess Themis in the context of the contemporary world</i>
12.30	Lunch break	
14.00	Dr. Marian ENACHE, President of the Constitutional Court of Romania	<i>Law as order and system</i>
15.00 18.00	Visit to the research laboratories of the <i>"Nicolae Testemitanu" State University of Medicine and Pharmacy</i>	

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Thursday, June 26, 2025

Blue Hall

9.00	Acad. Marius ANDRUH, Vice President of the Romanian Academy	<i>The beauty of chemistry</i>
9.45	Corr. mem. Viorel BOSTAN, Rector, Technical University of Moldova	<i>Development of the first satellite in the Republic of Moldova</i>
10.30	<i>Coffee break</i>	
11.00	Prof. Kornelius NIELSH, Leibniz Institute of Solid State and Materials Research, IFW-Dresden, Germany	<i>Atomic Layer Deposition: Thin Film Coating in 3D with Atomic Precision</i>
11.45	Corr. mem. Liliana GROPPA, "Nicolae Testemitanu" State University of Medicine and Pharmacy	<i>Infections in the onset of rheumatic diseases</i>
12.30	Lunch break	
14.00	Prof. Juras BANYS, Academy of Sciences of Lithuania	<i>Advanced future materials - ferroelectrics</i>
15.00	Visits to the research laboratories of the Technical University of Moldova	

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Friday, June 27, 2025

Blue Hall

9.00	Acad. Alexandru STRATAN, Rector of the Academy of Economic Studies of Moldova	<i>Think like an Economist, Act like a Leader: Discover How Economics Shapes Your Career and Future</i>
9.45	Prof. Violeta DINESCU, European Academy of Sciences and Arts, Salzburg, Austria	<i>How to Write an Opera for Children</i>
10.20	Acad. Ion Tighineanu, President of the Academy of Sciences of Moldova	<i>Nanotechnologies are changing the world</i>
11.00	<i>Handing over participation certificates</i>	
12.00	<i>Coffee break</i>	
13.00	Prof. Rattan LAL, Ohio State University, USA, Peace Nobel Prize Laureate	<i>Soil Centric Regenerative Agriculture for Green Revolution 2</i>
13.30	Corr. mem. Boris BOINCEAN, Academy of Sciences of Moldova	<i>Soil - the basic link in promoting sustainable and resilient agriculture in the Republic of Moldova</i>

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The 3rd edition of "The Path to Scientific Discoveries" Summer School, which took place during the period **June 23 to 27, 2025**, with the participation of pupils and students in a hybrid format, was a great opportunity and advantage to expand their horizons of knowledge and to interact with Nobel Prize laureates, representatives of the scientific diaspora, distinguished scholars, and scientific researchers from various fields, both in the country and abroad. Through direct Q&A sessions, students were involved in inspiring dialogues with eminent scientists, making it a truly transformative experience.

The meticulous selection of lecturers and topics underscored the need for this Summer School to become a recurring initiative rather than a singular event. Furthermore, student's feedbacks highlighted the potential for creating a national database of gifted students to foster their pursuit of scientific careers.

Joint academic and educational communities must cooperate to organize such summer schools at the regional level with the involvement of a larger number of students but also teachers, who will subsequently have the task of being ambassadors of science at the regional level. The organized activities strengthened the connection between research and education in the Republic of Moldova.

The Summer School "The Path to Scientific Discoveries," in its 3rd edition, has repeatedly demonstrated the commitment of the Academy of Sciences of Moldova to promoting excellence in research and education, bringing together brilliant minds from various fields to inspire the next generation of scientists.





ACADEMY OF SCIENCES OF MOLDOVA

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