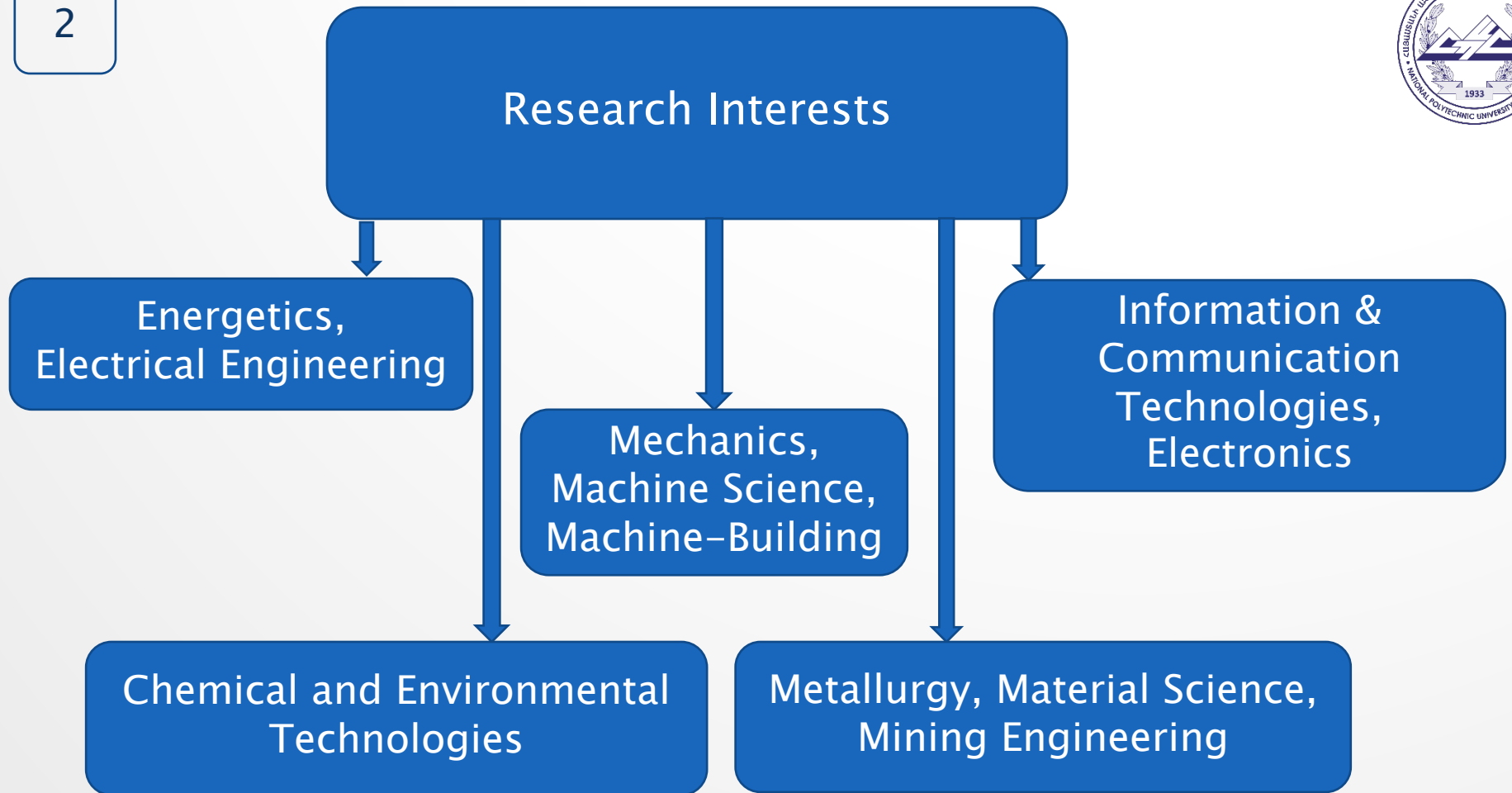


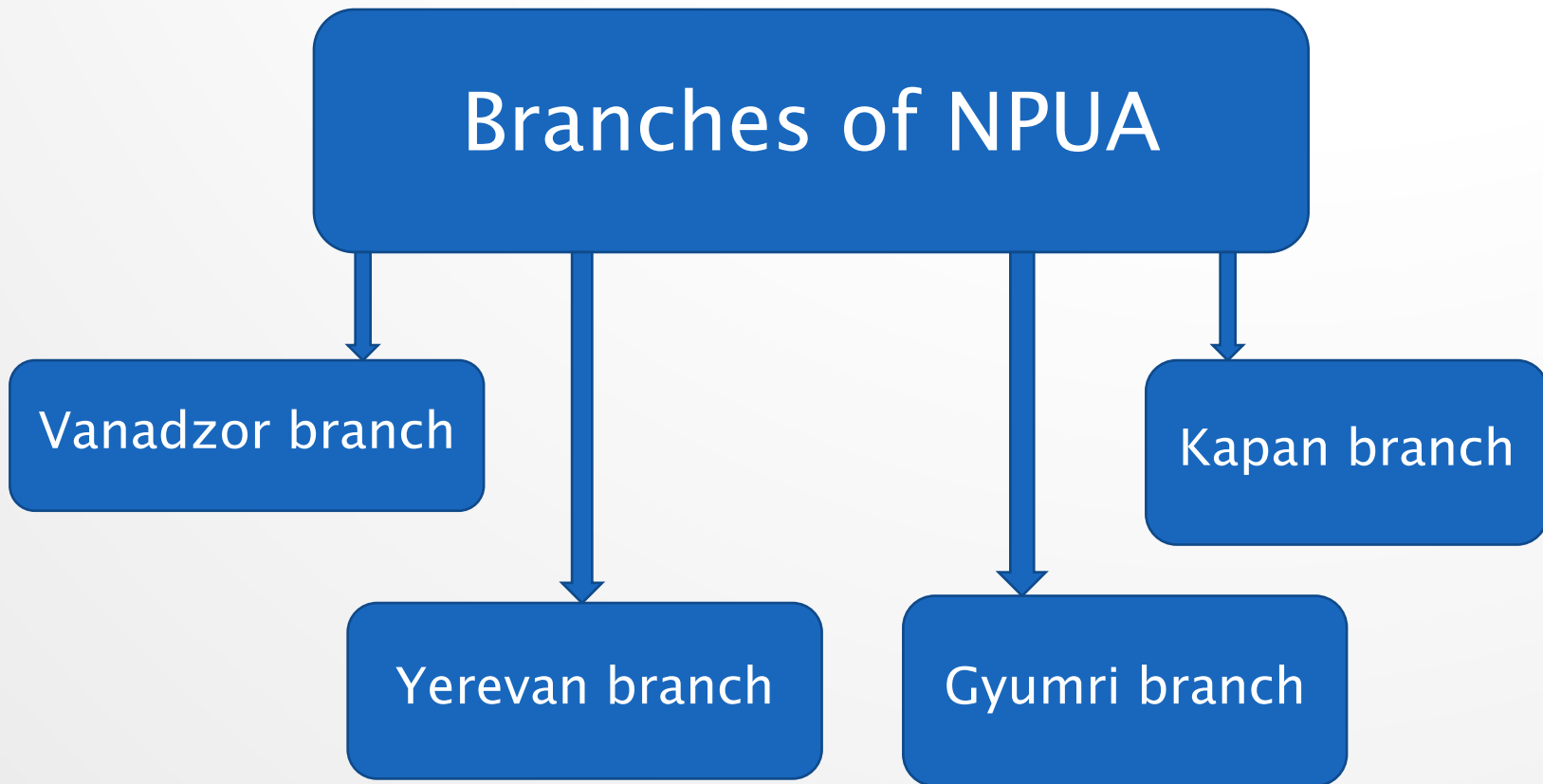


National Polytechnic University of Armenia

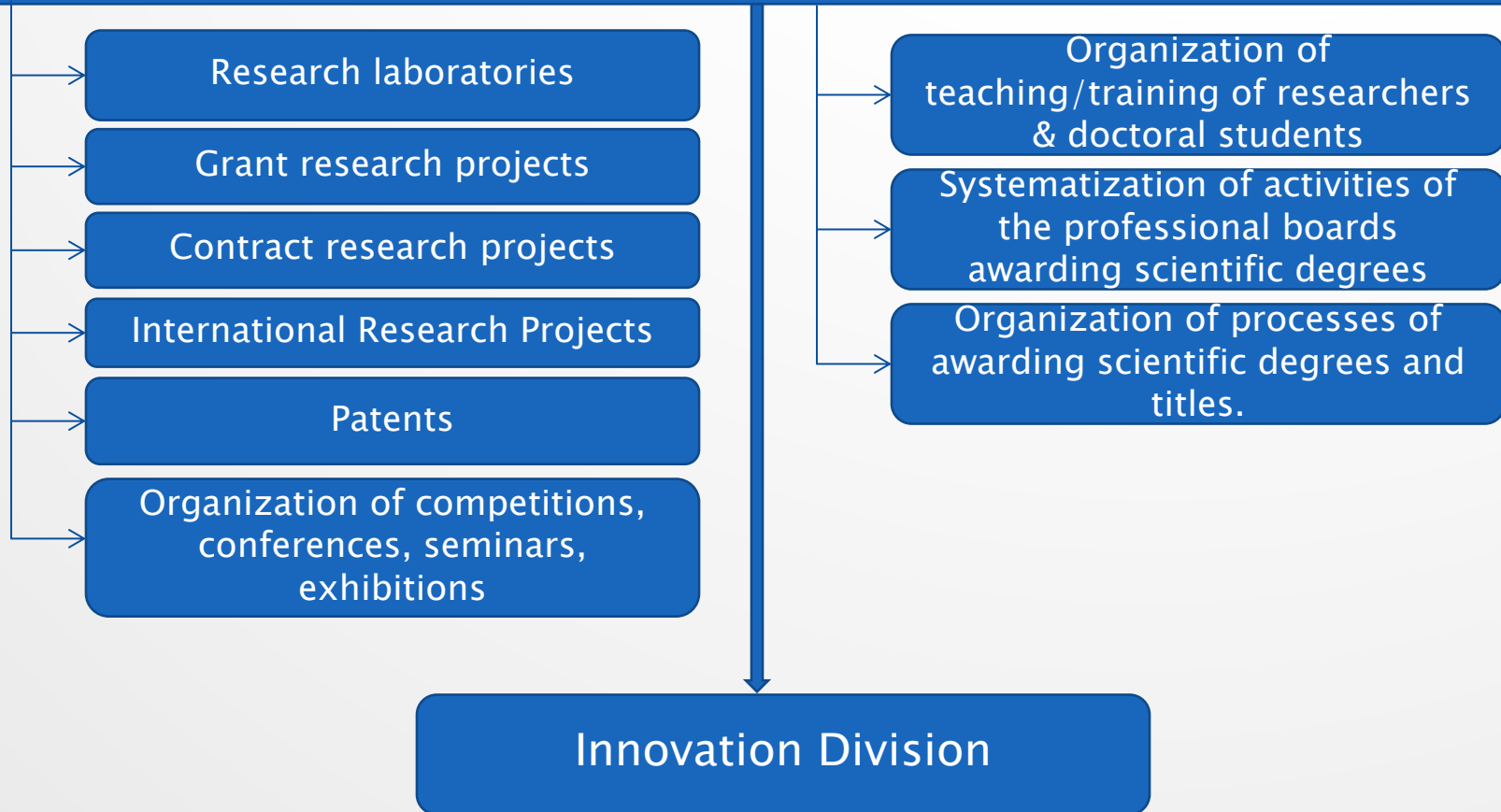
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YEREVAN
2023





Research and Innovation Center



Centers of NPUA



Armenian National
Engineering
Laboratories

Science research
center of Aerial
robotics

Center for continuing
education and training
of lecturers

Research and Innovation Center

Territorial educational
center of nuclear safety
and security

Schneider Electric-
Tashir-AEN-NPUA
center for excellence

Tashir-Cascade
Holding center for
excellence

The centers of the NPUA contribute to the reinforcement of university cooperation with leading organizations in a number of spheres and the increase of educational development of the students.

Research Projects

Research Laboratories

- Solar technology
- Air Robotics
- Automation and Electromagnetic Systems
- Electrotechnologies
- Electromechanics and electroradiomaterials
- Material Science and Metallurgy
- Robotics
- Mechanical Engineering Technology
- X-ray research
- Chemical technologies and polymer nanocomposites
- Semiconductor photoelectric devices
- Photoelectronic devices for optical connection systems
- System analysis
- Tribology
- Micro and Nanoelectronics
- Technological measuring
- Hydraulic engineering

Grant Projects

- Grant project financed by State Budget
- Applied product acquisition programs
- Dual-purpose projects
- Armenian-Russian joint projects
- Armenian-Belarus joint projects
- Armenian-French joint programs
- Eurasian Association multilateral
- Research Assistance Programs for Young Researchers
- Doctoral Students Research Assistance Programs
- International Grant Projects

Contract Projects

- Various organizations (also foreign) ordered projects

Scientific Periodicals



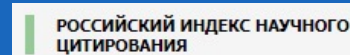
The following periodicals are published in NPUA

– The series of technical sciences of RA National Academy of Sciences and SEUA Newsletter
<https://innovative.polytechnic.am/en/publications/7>



– five series of Proceedings of NPUA

<https://innovative.polytechnic.am/en/publications/4>

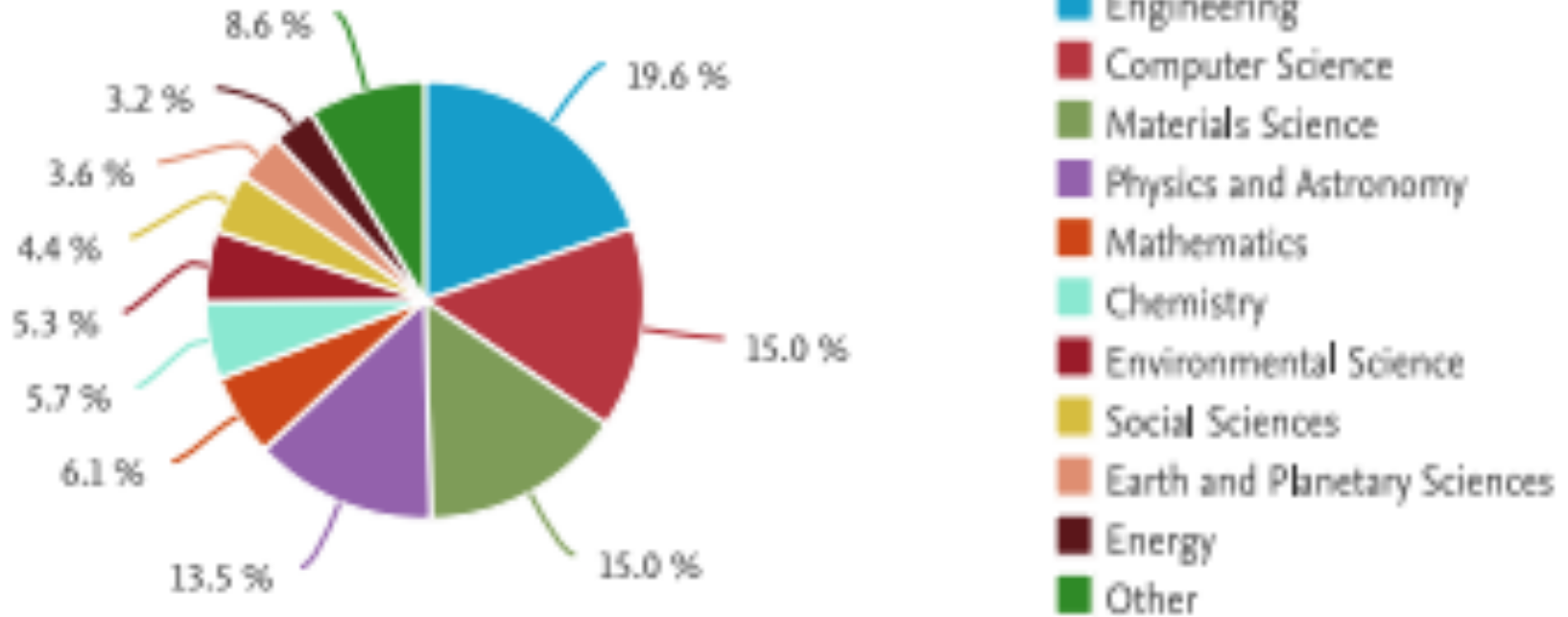


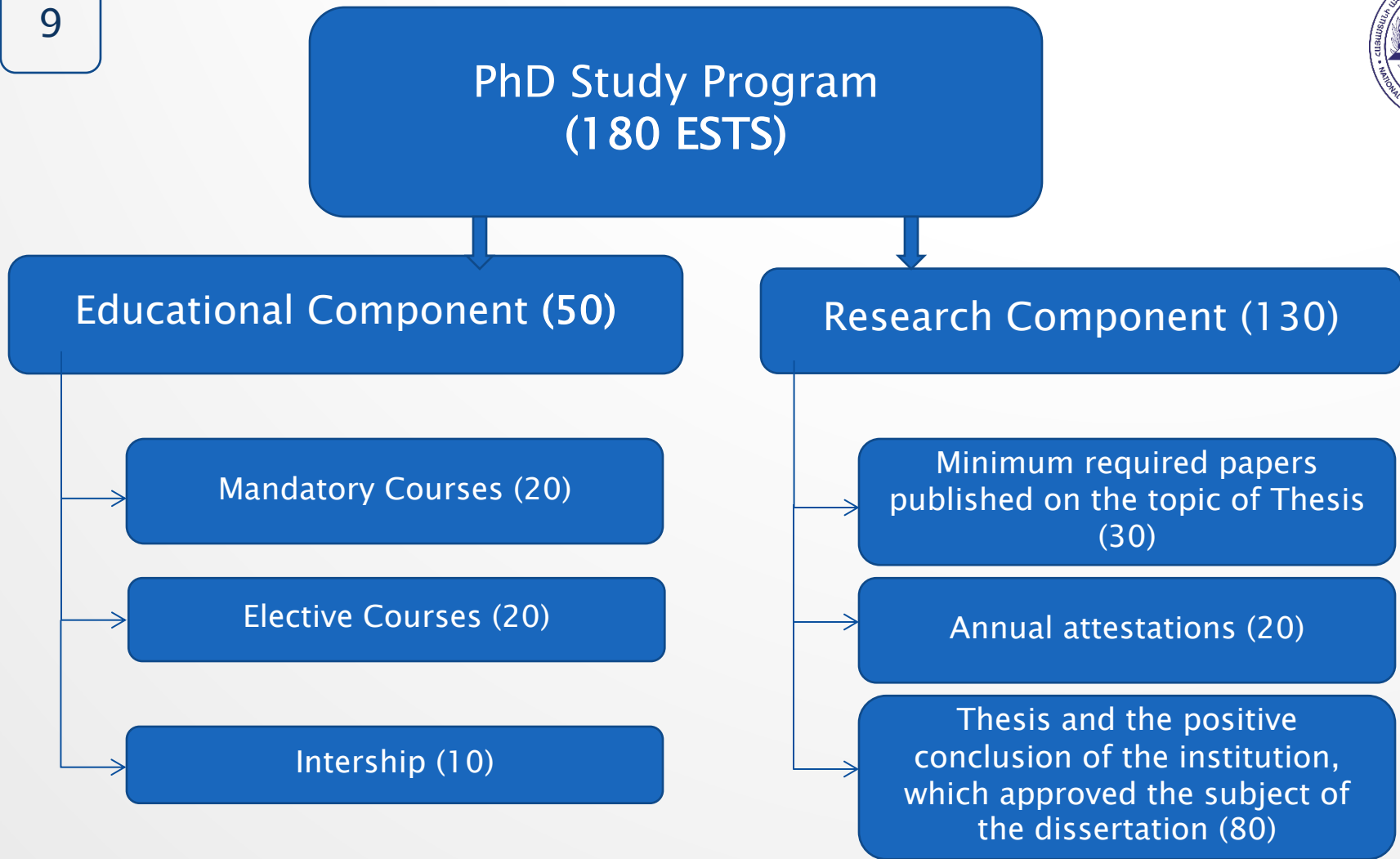
– LRABER, Bulletin of scientific papers

<https://innovative.polytechnic.am/en/publications/5>



Publications, Scopus categories





107 PhD Students



Specializations

	Specializations
E.01.01	Differential Equations
E.02.01	Machine Science
E.02.02	Robotics
E.02.03	Technologies and Equipment in Machine Building Industry
E.05.01	Automobiles and Tractors
E.09.01	Electrical Engineering, Electromechanics and Electrical Technologies
E.11.01	Information-measuring Systems
E.11.17	Medical Application Devices, Systems and Products
E.12.01	Telecommunication Networks, Devices and Systems
E.12.03	Radio Engineering, Communication Systems and Devices
E.13.01	Control, Control Systems and their Elements
E.13.02	Automated Systems
E.13.03	Computer Systems and Networks, their Elements and Devices
E.13.04	Mathematical and Software Support for Computers, Computer Systems and Networks
E.13.05	Mathematical Modelling, numerical methods and Software systems
E.14.01	Power Systems, Complexes and their Control
E.14.02	Nuclear Power Engineering
E.14.03	Thermal Power Engineering
E.14.04	Power installations on the base of renewable energy forms
E.16.01	Material Science
E.16.02	Metallurgy
E.17.01	Organic Material Synthesis Technology
E.17.04	Chemical Technology Processes and Apparatus
E.19.01	Materials and Manufacture Technology of Textile industry
E.27.01	Electronics, Micro and Nanoelectronics
Y.00.02	Economics and Management of Economy and Its Branches
ID.04.01	Environmental Protection and rational utilization of natural resources
ID.02.01	

<https://innovative.polytechnic.am/en>

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- Dissertations
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Announcements

ANNUAL CONFERENCE OF THE NATIONAL POLYTECHNIC...

The annual conference of the

polytech.am

Thank you for you attention

Hovhannes Chibukhchyan

Head of Innovation services

h.chibukhchyan@polytechnic.am

innovative.polytechnic.am

polytech.am

Russian-Armenian (Slavonic) University
Department of Medical Biochemistry and Biotechnology
Laboratory of Analytical Biochemistry and Biotechnology



Yerevan 2023



Russian-Armenian University

- Total campus area, old building (m²) – 24438
- Total campus area, new building (m²) – 12380
- Total research funds (in US Dollars) (average per annum over the last 3 years) - 1359091

School & Colleges

“USMUNK” full-time school with oriented high-level STEM-education





Institutes of RAU

- Biomedicine and Pharmacy
- Engineering and Physics
- Math and Informatics
- Media, advertisement., and cinema
- Economics & Business
- Law and Politics
- Humanities
- Oriental Studies

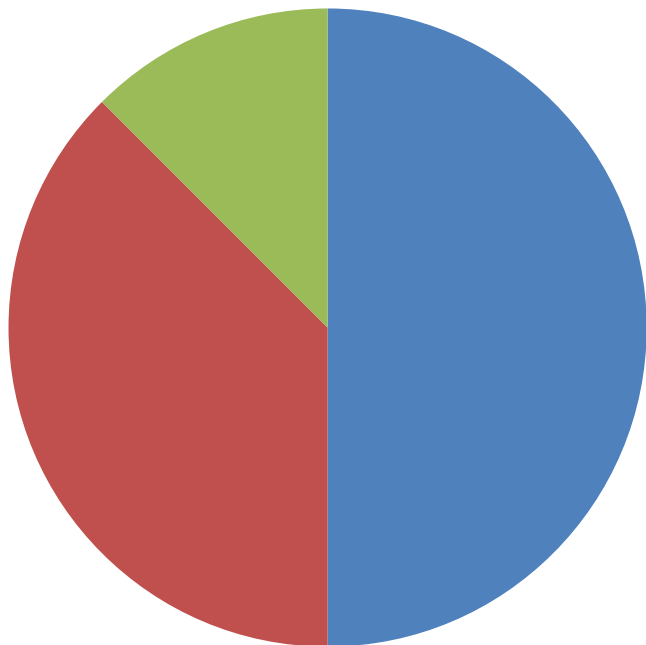




Science in RAU

Num. of RG/labs by each Institute
(Natural/Technical Sc.)

■ Biomedicine and Pharmacy ■ Engineering and Physics* ■ Math and Informatics



Institute name	Num. of labs
Biomedicine and Pharmacy	4
Engineering and Physics	3
Math and Informatics	1

*- Shareholder of Horizon-2020 grant until 2024 – Davit Hayrapetyan, fundamental physics, NanoQiqo lab.



Study of medicinal plants' activity, identifying their active compounds and biochemical mechanisms of action



Laurus nobilis



Achillea millefolium



Prunella vulgaris



Hypericum perforatum



Rhynchocorys orientalis



Téucrium polium



Ocimum araratum



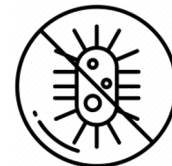
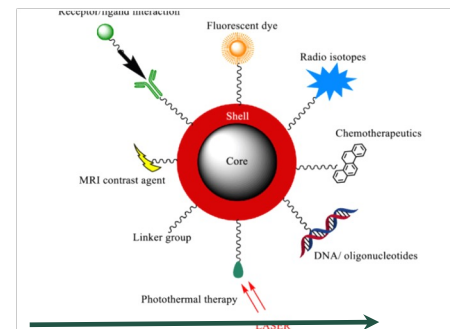
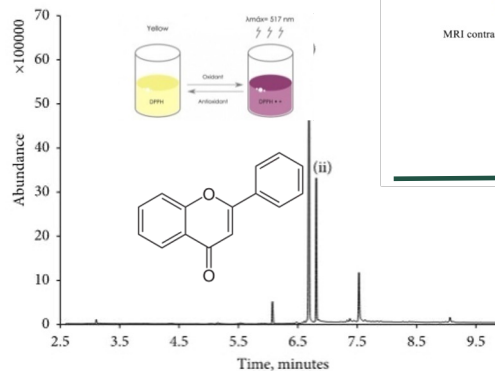
Nanobiomedical research



Extraction



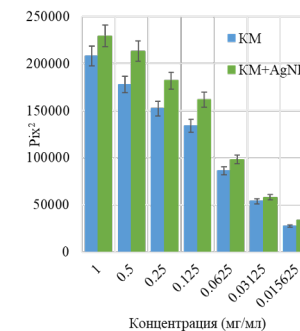
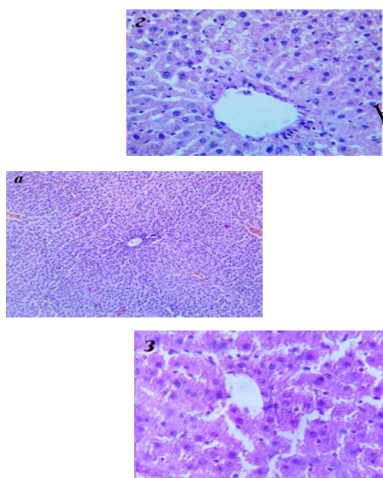
Extracts components detection



In vivo experiments

Histological analysis

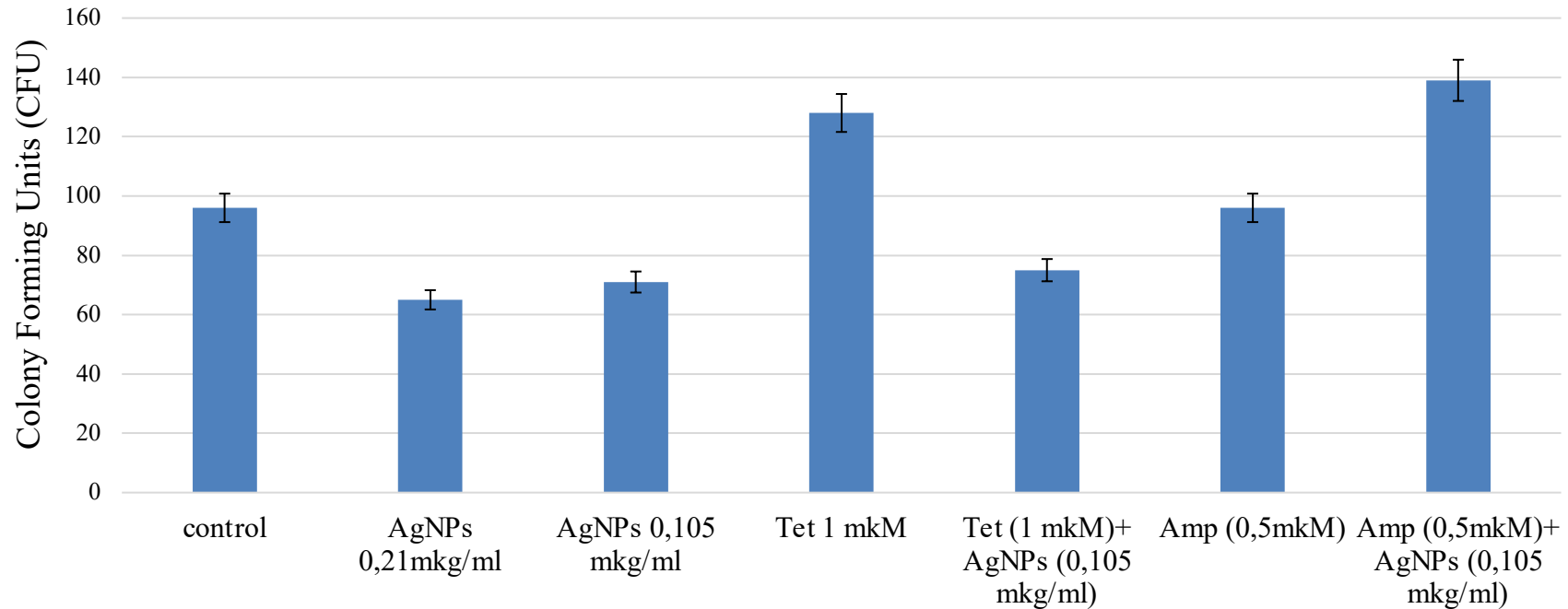
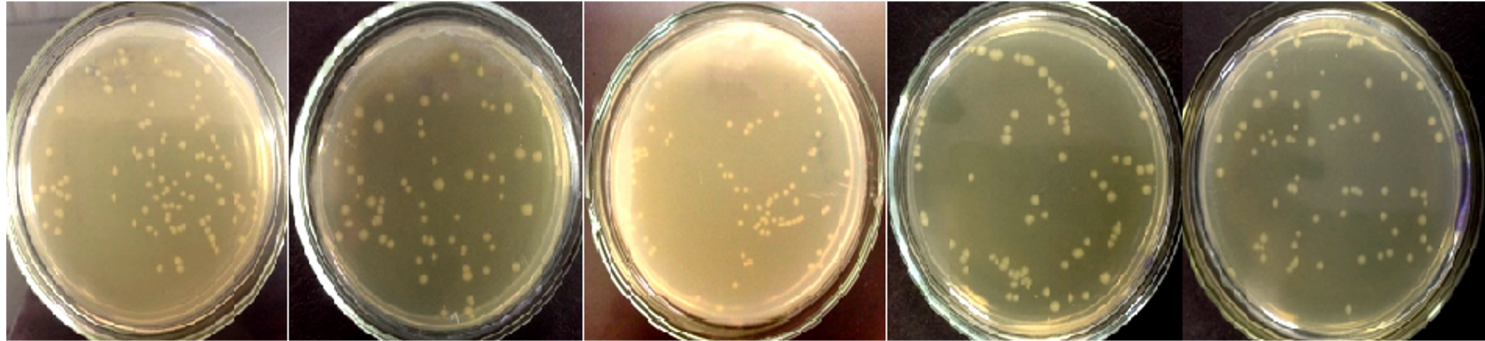
Biochemical analysis



Kazaryan Sh., Farsiyan L., Tumoyan J., Kirakosyan G., Ayvazyan N., Gasparyan H., Buloyan S., Arshakyan L., Kirakosyan A., Hovhannisyanyan A.. 2022. Oxidative Stress and Histopathological Changes in Several Organs of Mice Under the Influence of Biogenic Silver Nanoparticles. Nanomedicine, and Biotechnology. 50.doi:10.1080/21691401.2022.2149931.



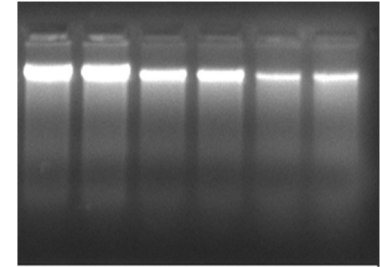
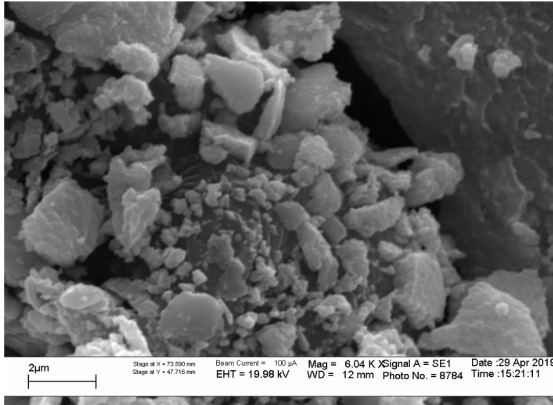
Antibacterial properties determination



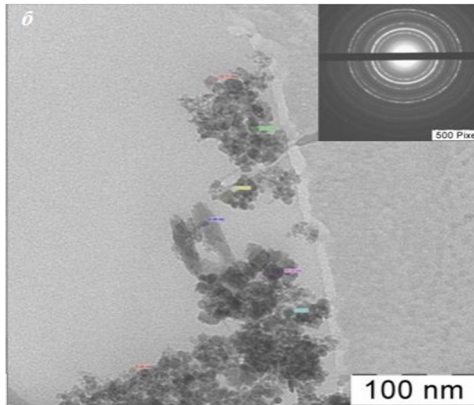
Khachatryan A., Kazaryan Sh., Tiratsuyan S, Hovhannisyan A. "Antibacterial effect of silver and iron oxide nanoparticles combined with antibiotics on E. coli K12", Microbiology and Biotechnology, 9:587-596, 2019, DOI 10.1007/s12668-019-00640-0.



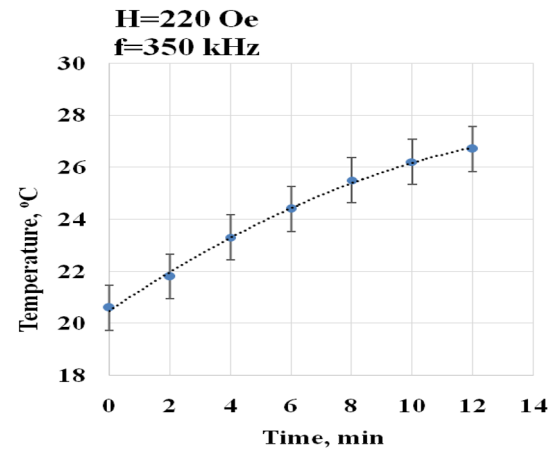
Multifunctional NPs



Petrosyan et al. (2020) Testing Green Silver Nanoparticles for Genotoxicity, Antioxidant and Anticancer Activity. ICNBME IFMBE Proceedings, Springer, Cham. https://doi.org/10.1007/978-3-030-31866-6_101



Hovhannisyan et al. 2019,
<https://doi.org/10.1111/jam.14214>



Farsiyan L. et al. 2022, ICNBME
https://doi.org/10.1007/978-3-030-92328-0_7



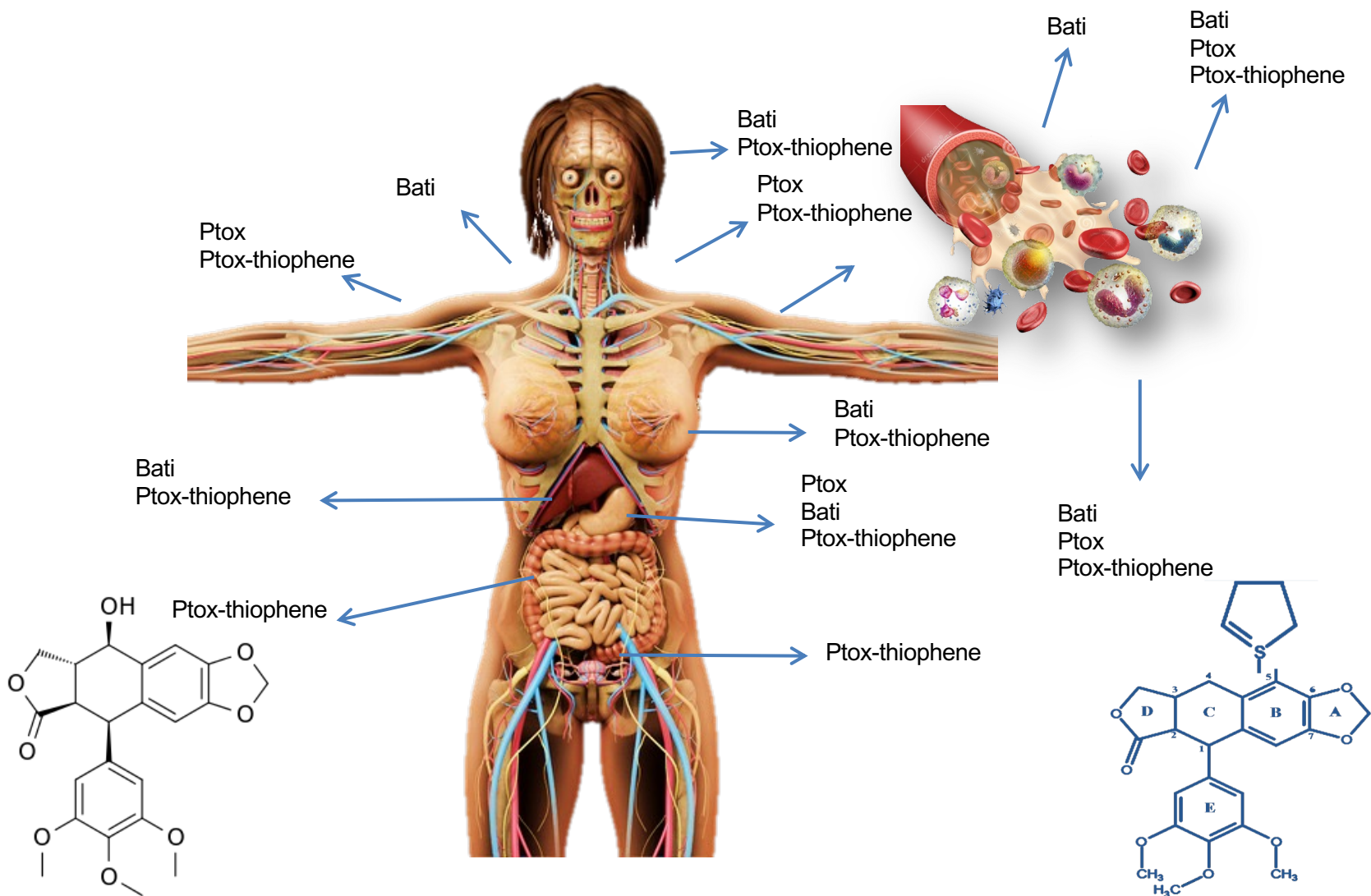
Green biotechnology



A.A. Hovhannisyanyan, A.A. Arutyunyan, A.J. Ohanyan, G.V. Chilingaryan, Investigation of the action of silver nanoparticles on the biosynthesis of podophyllotoxins of *L. austriacum* suspension cultures, *Toxicon*, <https://doi.org/10.1016/j.toxicon.2018.11.401>.

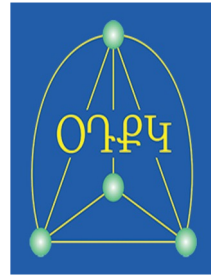


Bioinformatic research





Our Partners





Thank you!



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ashkhen.hovhannisyan@rau.am
ORCID: 0000-0001-6828-0588



SPECIALIZATION • EXPERIENCE • OPPORTUNITY

ARMENIAN STATE
UNIVERSITY OF
ECONOMICS

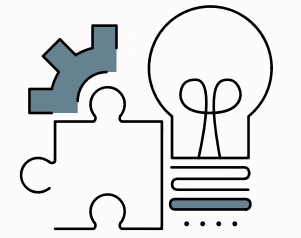
ARMENIAN STATE UNIVERSITY OF ECONOMICS

LUSINE DANIELYAN
DIRECTOR OF EXTERNAL RELATIONS DEPARTMENT





Key facts about ASUE



- The only state economic university
- The second biggest university in Armenia
- 56 Specializations, 6 Faculties, 20 Chairs, 2 branches
- HR Excellence in Research award by the EU Commission



FACULTIES

1. MANAGEMENT
2. REGULATION OF ECONOMY AND INTERNATIONAL ECONOMIC RELATIONS
3. FINANCE
4. MARKETING AND BUSINESS MANAGEMENT
5. COMPUTER SCIENCE AND STATISTICS
6. ACCOUNTING AND AUDITING



International Rankings

QS Rankings by Region (EECA)

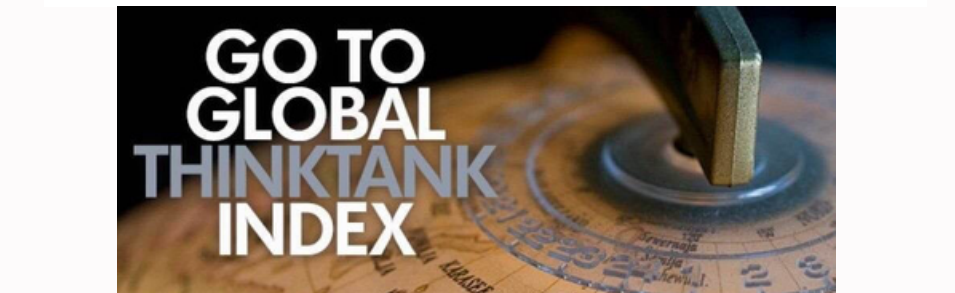
THE Times Impact Rankings

UI GreenMetric World University Rankings 2021

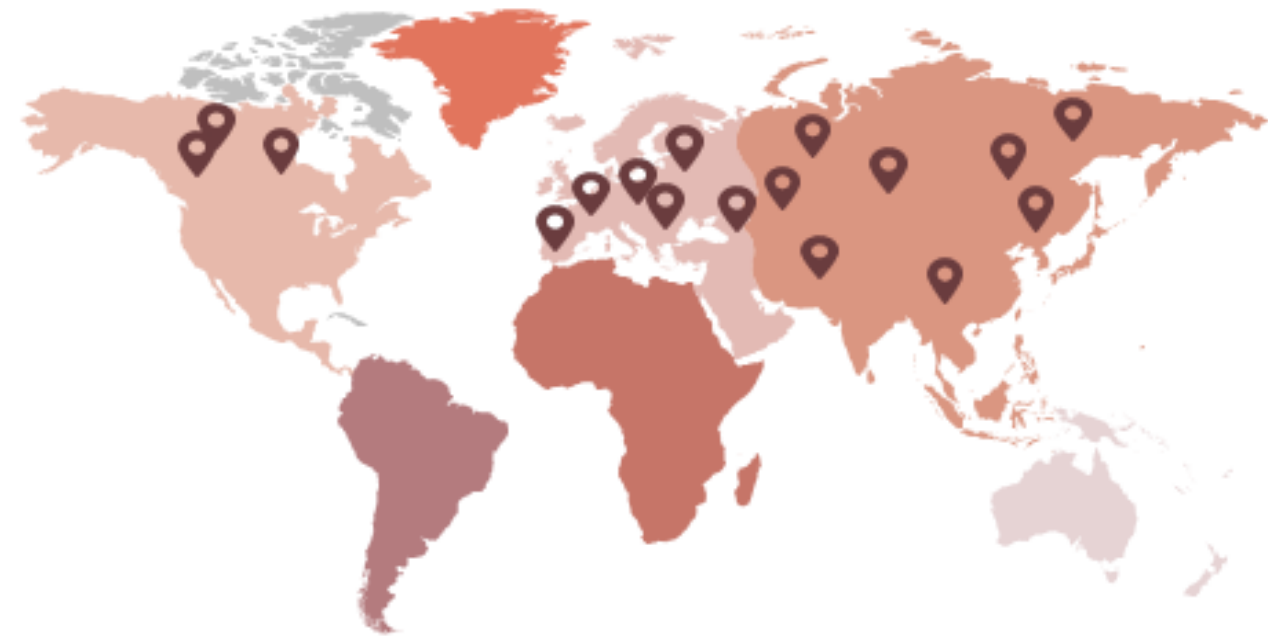
Top 94 University Affiliated Think Tanks in the World

Round University Ranking

Clarivate Analytics Ranking



Partners around the world



200

Cooperation with International Organizations

Sustainable Development Solutions Network

CIS University Network

The Black Sea and the Eastern Mediterranean Academic Network(BSEMAN)

Association of Economic Universities of South and Eastern Europe and the Black Sea Region(ASECU)

The Euroasian Universities Association (EUA)

Initiatives for Development of Armenia Charity Foundation (IDeA)

United Nations Department of Public Information in Armenia

Enhancing Students Participation in Quality Assurance in Armenian Higher Education (ESPAQ)

Armenian International Interprofessional Group

Copernicus Berlin e. V.

Association for the support of Scientific Research

Erasmus+ Capacity Building in the frames of Higher Education KA2

- MINERVA - contribute to the Strengthening of Research Management and Open Science capacities of HEIs in Moldova and Armenia.



"Widening opportunities for research collaborations"

Overall aim of the project:

To establish regulatory and operational framework for enhancement and effective management of research internationalization.

International Visegrad Fund

“Transferring V4 expertise in knowledge/technology transfer”

- Aim - promote the culture of enterprise-research infrastructure cooperation in Armenia and Georgia, based on the successful experience of the Visegrad partner countries.
- Partner countries – Czech Republic, Poland, Slovakia, Georgia, Armenia
- Main activities
 1. raise awareness of SMEs and research institutes in Armenia and Georgia on the benefits of joint research activities
 2. enhance the knowledge and skills of the staff responsible for knowledge and technology transfer in the target countries of the Eastern Partnership
 3. develop a concept of cooperation between SMEs and research infrastructures in the target countries of the Eastern Partnership.

The logo for the Visegrad Fund, featuring a teal circle above the text "Visegrad Fund" in a teal sans-serif font, with two smaller teal circles below the text.



AMBERD Research Center is one of the leading think tanks of Armenia conducting researches, analyses and scientific developments.

**70
Researches**

**300
Involved
Experts**

AMBERD RESEARCH CENTER

“Amberd” research center has been included in “Global Go To Think Tank Index Report” published by the University of Pennsylvania since 2016.

Since 2018 “Amberd” was annually ranked in the top 100 best university affiliated think tanks of the world and in top 50 of the Central Asia.

Activity

**Collaboration with state bodies
and international partners**

Providing opinions on draft laws

Preparation and publishing of researches, reports and digests

Collaboration with Mass media

**"Messenger of ASUE" and "Amberd
Bulletin"**

COOPERATION WITH STATE BODIES

- RA Government
- RA President
- Prime Minister`s Office
- RA Security Council
- RA Ministry of Finance
- RA Ministry of Economy
- RA Ministry of Education, Science, Culture and Sports
- Ministry of Labor and Social Affairs
- RA Urban Development Committee

➤ RA National Assembly (Standing Committees)

Annual working plan of the RA Statistics
Committee

Annual working plan of the RA Competition
Protection Commission

Thank you!

Lusine Danielyan
Director of External Affairs

lusine.danielyan.asue@gmail.com