

BLANKA NOVÁK



lybsolution@gmail.com

Hungary

LinkedIn:

<https://www.linkedin.com/in/blanka-nov%C3%A1k/>

Media:

<https://www.lybsolution.com/media>

Website:

<https://www.lybsolution.com/>

SUMMARY

Student scientific researcher with focused interests and years of experience in the fields of Microbiology, Phytochemistry, Pharmacology and Analytical Chemistry, advocate for science, scientific communication manager.

I developed a solution preparation method that inhibits the growth of a multi-drug resistant strain (*Pseudomonas aeruginosa*) while promoting microbiome health by increasing their reproduction rate. The microbiological results, innovative method of solution preparation and complex compound group profiling (HPLC) of one specific extract has never been experienced in the field of science. The project gained several prominent international recognitions and awards.

My passions also encapsulate scientific outreach and communication. I enjoy exploring new places and building meaningful connections.

CORE COMPETENCES – LEADERSHIP

Cognitive Creativity	Emotional Intelligence	Service Orientation
Strategic planning	Time management	Team development
Confident speaker	Presentation skills	Recruitment
Productivity	Method discovery	Public work

CORE COMPETENCES – TECHNOLOGY

Content creation	Podcasting	Online Marketing
Social media publishing	Video/photo editing	Interior design
Blog & website editing	Computer graphics	Online marketing
Animation	Microscopy	Spectrophotometer
HPLC analysisation	Visualization	Chromatograms

CORE COMPETENCES – PROFESSIONAL

Science Communication	STEM education	Collaboration
Host of events	Analytic	Media appearance
Polyglot	Adaptability	People-oriented
Curiosity	Open-minded	Scientific research

ACHIEVEMENTS

Intel ISEF - the world's largest international pre-college science competition 4th award in Microbiology, 2019:

<https://abstracts.societyforscience.org/Home/FullAbstract?Category=Any%20Category&Finalist=novak&AllAbstracts=False&FairCountry=Any%20Country&FairState=Any%20State&ProjectId=16963>

http://www.zetapress.hu/kulfold/99301?fbclid=IwAR1vsBvqbqW_I5qhVCP4J9I-ZeEWWwQz2-53fwi9rWKwBLqldYmhCqz1VE

Stockholm International Youth Science Seminar (SIYSS) - attended the Nobel Prize Award Ceremony as 1 of 25 participants from all over the world, held presentation as part of a scientific conference for 1500 Swedish students, 2018:

https://www.youtube.com/watch?v=vCQvBUxoMI8&feature=emb_title

https://www.elobolygonk.hu/Klimahirek/Oktatas/2018_12_15/fiatal_magyar_tehetseg_novak_blanka_kepvise_lte_hazankat_a_nobel_heten?fbclid=IwAR1OaXtWGgtqayDbY_G4LuTduZPS1wrjR9hpLU-I_JJbN0y2jbRAHijEWfI

European Contest for Young Scientists (EUCYS) - Special Donated Prize in Bioeconomy - Kerry Group, 2018; Invitation for a private official visit and site tour to the Kerry Group, Ireland - Naas Global Innovation Centre, Carrigaline Fermentation Site, 11-14 March 2019:

<https://www.siliconrepublic.com/video/eucys-2018-rds-dublin>

<https://dailynewshungary.com/hungarian-success-at-the-eus-contest-for-young-scientists/>

Scientific and Innovation Talent Recruitment Contest for Youth 1st prize (Hungarian Association for Innovation), 2018; **Acknowledgement Letter** for outstanding scientific achievement from Mr. László Palkovics, Minister for Innovation and Technology – Ministry for Innovation and Technology Hungary, 2018; **Talent Passport**, 2018:

<https://pestisracok.hu/tudomanyos-dijat-nyert-az-egri-diak-o-kepviselheti-magyarorszag-fiataljait-az-idei-nobel-dij-atadon/>

Hungarian Research Student Association's competition 1st prize in Microbiology and Biochemistry section in the country, 2018;

Star of Eger Grand Award in Youth category, 2018, **Honorary Student of Eger prize**, 2018:

<https://www.youtube.com/watch?v=tyx58rbyKs4>

10th Chinese Bridge Proficiency Competition 1st place from non-Chinese secondary school students (Confucius Institute at University of Szeged), 2017;

Essay writing awards excellent qualifications, international 1st place (2018, 2017, 2016, 2012, 2011);

English pronunciation awards 1 st place (2018, 2016, 2014, 2012);

Hungarian language competition 2nd place in the country, 2016;

Art competition 1st place in designing objects, 2016;

Synchronised swimming 6th Hungarian National Dolphin Cup, 2 x 3rd place, 2010;

Hungarian National Student Olympics in Swimming 4th place (breast stroke), 2009.

WORK EXPERIENCES

EUCYS Alumni Network
Sofia, Brussels
09/2019-

Communications Manager and Web Developer;

Built an alumni network website that engages collaboration between scientists and fosters new relationships, manages communication within the founding members.

iGEM Bio-ethics Project
Head Initiator
Team: Lund, Sweden
05/2019-

Ensuring prosperity in a world of Genetic Engineering;

Synthetic biology is an emerging field of science which is based on standardization. The field lacks a global ethics framework and a global set of regulations. We propose to establish such frameworks to enable for further international cooperation and development within the field.

Kerry Group
Official Invitation
Naas, Carrigaline, Ireland
11/03/2019 –14/03/2019

Participated in personalised professional discussions at the Global Technology and Innovation Center (Naas).

Visited the analytical, food development and microbiological-fermentation laboratories of the R&D Department and the Carrigaline Fermentation and Enzyme Manufacturing Center near Cork.

Attended the Kerry Wellness World Conference held by world-renowned experts on the latest nutrition trends, product developments, and marketing strategies. Conducting analytical measurements on preparative LC and scientific experiments.

<p>Richter Gedeon Compound Profiling Laboratory Supervisor: Dr. György Balogh (habilis), Budapest, Hungary 01/2018 –</p>	<p>Conducted analytical measurements on HPLC-MS and preparative LC and scientific experiments in the Organic Chemistry Laboratory.</p> <p>Gained experience on analytical systems, compound analyzation and profiling methods.</p> <p>Examined the fingerprint of my solution that inhibited the growth of <i>P. aeruginosa</i>, and implemented new methods to purify the extract.</p> <p>Participated in professional discussions and mentoring.</p>
<p>Eszterházy Károly University Institute of Biology and Chemistry Supervisors: Dr. Zoltán Murányi PhD, Dr. Marianna Marschall PhD. Eger, Hungary 01/2018 –</p>	<p>Carrying out a research on the antibacterial effectivity of my innovative solution;</p> <p>Research on the antibacterial effectivity and activity of my innovative solution extracted from the berry of <i>Lycium barbarum</i>;</p> <p>Conducting experiments (phytochemical analyzation), working in the microbiological laboratory (antibacterial effectivity, response to biotic bacteria strains), working on the method of solution preparation.</p>
<p>Harvard University 08/2019-</p>	<p>Bioethics: The Law, Medicine, and Ethics of Reproductive Technologies and Genetics online course.</p>
<p>Harvard University 10/2018-03/2019</p>	<p>Biochemistry online course.</p>
<p>Tel Aviv University 03/2016-07/2016</p>	<p>Understanding Plants Part I and II: What a Plant Knows online course.</p>
<p>István Dobó Secondary Grammar School Eger, Hungary 09/2015-07/2016</p>	<p>Head director of the school's newspaper: "Our life in 3D";</p> <p>Designing, management, media.</p>
<p>University of Debrecen Debrecen, Hungary 15/07/2015-22/07/2015</p>	<p>Toxicological research;</p> <p>Faculty of Science and Technology: Summer Camp;</p> <p>Toxicological research on <i>Spirodela polyrhiza</i> (heavy metal stress, chlorophyll fluorescence), examination of the photosynthetic activity of <i>Quercus robur</i> leaves.</p>

EDUCATION

<p>Secondary education István Dobó Secondary Grammar School Eger, Hungary 09/2012-07/2018</p>	<p>Received the "Exceptional Dobo Student" prize for graduates, 2018;</p> <p>Receiving excellent certificates each year (academic honor from eleven subjects at the end of year 2017), 5.0 high school GPA, 2018, A level Chemistry, Biology and English;</p> <p>A level final exam from English: excellent score, 2017.</p>
<p>Tertiary Education Eszterházy Károly University 09/2018-</p>	<p>Biological sciences BSc.</p>

SKILLS AND COMPETENCES

Languages	Hungarian ●●●●●	English ●●●●●	Chinese ●●●●●
	Spanish ●●●●○	German ●●○○○	Turkish ●●○○○

TOEFL iBT test: 107, Reading: 26, Listening: 28, Speaking: 29, Writing: 24;
EURO C1 Combined, Proficiency language exam;
HSK 4 (B2) Chinese language exam.

Technical skills	Final Cut; Imovie;	MS Office; Web design;	Motion; Mac OS X.
Communication skills	Empathic listener, emotional intelligence; Speaking in public, in front of groups and via electronic media.		
Organisational / managerial skills	Understand and appreciate the importance of a job well done; Able to handle challenges, with proven history of increased productivity; Sketching pictures, diagrams; Enjoy working with public; Interviewing.		
Personal skills	Positive, inspiring attitude towards team members, fully committed to team spirit, proactive, critical, trustworthy.		
Driving Licence	B category. High performance Driving Technique Training (ABS test track, skid pad, slope and uphill track) - Hungaroring Sport Zrt.		

ADDITIONAL INFORMATION

Presentations Projects	<p>European Contest for Young Scientists (EUCYS) Sofia, Bulgaria: First Alumni Conference – presentation involving scientific communication, and recording to the Drop the STEM podcast, 2019;</p> <p>29th Hungarian Innovation Youth Talent Contest: Opening Ceremony, speaker, 2019;</p> <p>MAFITUD Hungarian Scientists Conference: speaker – inspirational and motivational presentation to strengthen collaboration between young scientists, 2019:</p> <p>https://www.youtube.com/watch?v=24VxFZnCMz4&feature=emb_title</p> <p>Y Generation - Young entrepreneur's day part of Global Entrepreneurship Week (GEW) - presentation on the importance of scientific research, showcasing the results, 2018;</p> <p>Researcher's nights, 2018;</p> <p>Dobó's Scientific Days presentation about the significance of my research, received excellent certificate, 2018;</p> <p>Phytochemical properties and physiological effects of <i>Lycium barbarum</i>, 2017.</p> <p>Vitamins in English, 2016;</p> <p>Questions of evolution, 2015;</p> <p>Moderator of the school's national events and graduation ceremonies, 2014-2017;</p> <p>Presented the school in its 125th jubilee film, 2014;</p> <p>Interactive lessons with kids on literature, drama and "Experiments using a microscope" (plant morphology), 2017,2016,2015.</p> <p>My films:</p> <p>"Colorful chemistry" –presentation of Dr. Zoltán Murányi PhD given at the Hungarian Research Student Association's competition, 2014-2018;</p> <p>"About the Chinese language", 2017;</p> <p>"Students' Day promo film", 2017;</p> <p>"Life on a farm" documentary (approx. 100K views on youtube), 2017:</p> <p>https://www.youtube.com/watch?v=d6xP1jnPzFA</p>
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“The scientific work of the school’s Nature Science Lab”, 2016;

“Interview with our Chinese teachers in Chinese”, 2016;

Appearance in the media: <https://www.lybsolution.com/media;>

Presenting my school in the “Seniors’ Magazine”, in several radio programs, in various interviews on TV (“Carrier choice days”) presenter of the “Honoring the teachers of Eger” event, host of the town’s “20th of August” event, 2016.

Social works

European Commission, EUCYS: EUCYS Alumni European Scientists Network - Creating online networking platform to foster new collaborations between the great minds of the present age, 2019;

Get in the Ring Workshop at Pfizer - Speaker at youth category, 2019;

StartUp Campus Social Media Content Creator, Podcast Host - Boosting social media campaigns, reaching out to the youth through various platforms to engage them in the STEM fields and apply to the Innovation Contest, 2019:

<https://www.youtube.com/watch?v=d6xP1jnPzFA>

Editor, founder and host of Drop the STEM podcast – Impactful conversations with great minds to inspire change and spread passion for science! Approved by Society for Science & the Public, Washington, DC, 2019:

<https://soundcloud.com/user-997890267>

Member of the Official Jury to select the next SIYSS participant for the Nobel week, 2019;

OTP Bank Campaign - Junior Hero - one of 5 internationally acknowledged young people from different fields to advocate for science and promote making conscious financial decisions, 2019:

<https://www.youtube.com/watch?v=OUB8PSALaXw>

<https://www.youtube.com/watch?v=Uw7AVetsZ-g>

SIYSS week – special interview: featured in an inspiring, educational film for high school students, supported by the Swedish Government, 2018:

https://www.youtube.com/watch?v=vCQvBUxoMI8&feature=emb_title

Microvlog - official youtube channel to inspire others towards scientific work, 2018:

<https://www.youtube.com/channel/UCGBC8GGW29A8VI2ag9jq4Gw>

Organized numerous charity events (collecting Kinder egg toy games for African children in poverty, collecting bottle caps for a boy suffering in cancer), 2014-2019;

Participating in voluntary work amongst children, completed 50 hours of mandatory social work, 2014-2018;

Wrote a song about the usefulness of social work for my school’s choir: 1st prize, 2017;

Wrote, directed and supervised the theatrical performance of 8th graders, 2016.