IBO 2022 ARMENIA FINAL REPORT



2023

We would like to express our deep gratitude to the

Ministry of Education, Science, Culture and Sports of the Republic of Armenia,

International Biology Olympiad e.V.,

Team Telecom Armenia,

and Armenpress

for support.



IBO 2022 Office

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It was an honor for us to host the 33rd IBO in Yerevan, one of the oldest cities in the world.

The 21st century apparently is the century of Biology.

The development of technologies nowadays induces rapid development of Biology.

Fantastic efforts of the IBO community promote the career development of IBO participants who are future scientists in the area of life science.

We were extremely happy to be part of these efforts of introducing young students to the contemporary challenges of Biology.

Dr. Gayane Ghukasyan

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1. PREFACE

1.1 Facts and Figures

The 33rd International Biology Olympiad (IBO 2022) was held on July 10-18, 2022 in the capital of Armenia, Yerevan. The Olympiad was organized by **Yerevan State University**. The official authority of the IBO 2022 was the **Ministry of Education**, **Science**, **Culture and Sport of the Republic of Armenia**.

Participants from **62 member countries** and **3 observer countries** took part in the Olympiad. In total, **201** jury members, 5 observers, **237** students and **5** international advisors participated in the event.

This final report demonstrates the organization and implementation of the 33rd International Biology Olympiad held in Armenia.



The report includes "IBO 2022 EXAMS" zip folder as an appendix.

1.2 The History of NBO and IBO 2022

The 1991. National Biology Olympiad of Armenia established in was In 2008 Dr. Gayane Ghukasyan participated in the IBO in India as an observer. In 2009 Armenia became member of the IBO. а Since 2009, 38 Armenian students in IBO. have participated the During the IBO 2018 Tehran Olympiad, the IBO Association made the decision confirming that the Republic of Armenia would officially host the 33rd International Biology Olympiad on July 2022. 10-18,

1.3 IBO 2022 Logo

The IBO 2022 logo was created by Taron Simonyan in 2020.

The stork is considered as the symbol of respect for parents. According to an old legend, the stork delivers food to its parents when they are no longer able to take care of themselves. Just like the storks, it is the responsibility of each generation to continue on the valuable scientific heritage of the ancestors. The color green symbolizes the eternity of life on Mother Earth.



2. IBO 2022 ORGANIZATION

2.1 The Organizing Committee



The IBO 2022 Organizing Committee was formed in 2020.

The IBO 2022 Office was founded in Yerevan State University.

The head of the organizing committee was the program supervisor Dr. Gayane Ghukasyan.

The Advisory Board of the IBO 2022 consisted of the representatives of the Ministry of Education, Science, Culture and Sport of the Republic of Armenia and Yerevan State University, 9 people in total. The head of the advisory board was RA Deputy Minister of Education, Science, Culture and Sports, Dr. Zhanna Andreasyan.

The organizing committee consisted of the scientific committee, the auxiliary committee and the secretariat.

The Scientific committee consisted of 14 people. The Scientific Committee developed 120 theoretical questions and 4 practical exams in total. 102 theoretical questions were presented to the subgroup for the discussion.

The Auxiliary committee consisted of 15 people. Some auxiliary committee staff was provided by Yerevan State University.

The Secretariat consisted of 6 people. The Secretariat was formally established in 2020 in the IBO 2022 Office.

2.2 Funding and Budget

In total 1,200,000 USD was spent on the IBO 2022.

The amount includes:

- 333,000 USD participation fee.
- 6736 USD (6217.35 CHF) Oly-exams software
- 860,264 USD donated by the Armenian Government



The IBO 2022 participation fee for each team (4 students + 2 jury members) was 2500 USD. The participation fee for each additional jury member and each observer was 2000 USD.

The technological partner of the Olympiad was the "Team Telecom Armenia" company, which provided the necessary technical solutions to ensure the running of the exams.

The information supporter of the Olympiad was "Armenpress" news agency.

The IBO Office bought the Oly-exams software (ExamTools and Google Translate & Deepl usage) for jury sessions of the IBO 2022. The total cost of the software was 6217.35 CHF (approx. 6736 USD).

IBO 2022 PREPARATIONS

To host the IBO 2022, Participants' bags and the following items were prepared by the auxiliary committee and given to the participants during the Olympiad.













White t-shirts were prepared for the participants.

Yellow t-shirts were prepared for the volunteers to be easily noted by the participants.



Lab coats with 4 different colors were prepared for the students of the 4 groups of the practicals.





3. PARTICIPATION IN THE IBO 2022

3.1 Invitations and Participation Intents

Firstly, the invitation letter was prepared by the IBO 2022 organizing committee and sent to the IBO Office to upload on the newly created registration portal. Although the IBO 2022 organizing committee had a user profile of the portal and a permission to use a variety of tools on the portal, the option to upload the invitation letter from our side was unavailable. The invitation letter was sent to the IBO Office and after being uploaded it was sent out on the 8th February, 2022.

On February 8, the IBO 2022 organizing committee sent the invitation to 76 countries and regions out of 78 IBO member countries and regions based on the data pool created on the portal. 2 members (Kazakhstan and Liechtenstein) were left because of incomplete data. The IBO 2022 organizing committee informed the IBO office about it and based on the available information provided by the IBO Office, the IBO 2022 organizing committee sent the invitation letter to Liechtenstein on February 11 and Kazakhstan on February 16.

The deadlines of all the stages were mentioned in the invitation letter.

The deadline to express the participation intent (informal information by all members whether their team will likely participate) was **1 March, 2022**.

On February 23 the IBO 2022 organizing committee used a portal tool to send reminders to those coordinators who have not responded yet.

63 members expressed their participation intent through the portal by March 1 and the IBO 2022 organizing committee decided to extend the deadline to March 10. In the meantime, the IBO 2022 organizing committee sent reminders through email as well. As a result, 6 more members expressed their intention to participate by the extended deadline. In total, 69 IBO members expressed their participation intent in the first stage.

Since only 1 invitation letter could be uploaded at the portal, the IBO 2022 organizing committee asked the IBO Office to upload the invitation letter prepared for the observers, and on March 10 the IBO 2022 organizing committee sent it to 11 countries that were interested to become observers according to the list formerly provided by the IBO Office. The following countries were interested to become observers: Afghanistan, Austria, Bosnia & Herzegovina, Botswana, Cambodia, El Salvador, France, Ghana, Kosovo, Kuwait, Macao.

The deadline for the observers to express their participation intent was **31 March 2022**.

4 countries (Afghanistan, Botswana, El Salvador and France) expressed their intention to participate as observers by March 31. In order for the observer countries to be able to submit their intent, it was necessary to set the global deadline for participation intent for March 31. This meant that members could also then submit participation intent until March 31 if they tried. This was a single setting in the system.

Later 10 members (Australia, Belarus, Canada, China, Colombia, Egypt, Hong Kong, Mexico, Turkmenistan, United States) and 2 observer countries (Botswana and El Salvador) withdrew to participate.

The Macedonian team completed all the stages but could not arrive in Armenia because of no convenient flights.

Between April-June, the IBO members Cyprus, Kyrgyzstan, Nigeria, Slovenia and Nepal and the observer country Bolivia expressed their will by email to participate in the IBO 2022. Later Nepal withdrew from participating. The IBO 2022 Organizing Committee set accelerated deadlines for these teams to complete all the steps as soon as possible.

3.2 The procedure of expressing the participation intent

After sending the invitation letter, the coordinators received an automatically generated email from the email address of the IBO registration portal (not from the email address of the IBO 2022 Armenia). The coordinators received an email which invited them to express the participation intent through the provided link of the IBO registration portal and presented the invitation letter attached. The coordinators had to follow the link to express their participation intent.

After expressing their participation intent the coordinators received an Invitation to the IBO Registration Portal. This was when they received their password for the newly created registration portal. The first problems the coordinators faced at this stage was that some coordinators had not noticed the password in this email and tried to log into the portal with their Member login credentials for the *ibo-info.org* website.

In addition, several coordinators contacted the IBO Office to replace their names because they were no longer in charge to express the team's participation intent. As everything was done by the portal and the invitations had been sent based on the data pool, this kind of requests usually took some time to figure out with the help of the IBO Office.

3.3 Pre-registration

After receiving their credentials to log into the portal, the coordinators had to complete the preregistration by **March 31**. Pre-registration is the step when the coordinators definitely tell whether their teams will attend. The coordinators also indicate the number of participants (jury / students) and single rooms requested. At this stage coordinators confirm that they know that pre-registration constitutes a binding agreement with the host. Regardless of whether their team attends the IBO or not, any fees incurred or set by the host must be paid.

After indicating the number of participants and single rooms (there was no single room fee, the rooms were provided upon availability) an invoice with the all banking details was generated on the coordinator's portal account which they had to download.

At this stage the IBO 2022 organizing committee received lots of requests regarding the invoices, such as to change the addressee of the invoice (the invoices were automatically generated based on the coordinators' information in the data pool), to send 2 or more separate invoices to each funding organization of a team, etc. The IBO 2022 organizing committee tried to fulfill these requests through the portal whereas some of them had to be done manually.

The IBO 2022 organizing committee also received several requests to extend the deadline for pre-registration and therefore the deadline for the payment as well because of the uncertain situation of the pandemic and financial support in some countries and regions.

46 countries and regions, including the observers, completed the pre-registration before March 31, the initially set deadline.

The IBO 2022 organizing committee extended the deadline for pre-registration to April 7. Only 1 more team completed the pre-registration by then and the IBO 2022 organizing committee was asked by some teams to extend the deadline for some reasons, such as the uncertainty of their financial support, the stabilization of the pandemic situation etc.

Then the IBO 2022 organizing committee extended the pre-registration deadline to April 22 sending a series of reminders. 13 more teams completed the pre-registration this time. After April 22 the IBO 2022 organizing committee did not officially extend the pre-registration deadline but continued to receive requests from some teams that were already ready to complete the pre-registration.

2 more teams asked to open the pre-registration page by the end of April, 7 more teams in May and 1 team in June and the IBO 2022 organizing committee fulfilled their request.

2 new coordinators contacted the IBO 2022 organizing committee and informed that the old coordinators expressed the participation intent and received the credentials to log into the portal but were replaced later, that's why their team had not met up with the deadlines.

5 countries (4 regular and 1 observer) withdrew from participating although they had completed the pre-registration.

3.4 Payment

The deadline for the payment was initially set as April 30.

The IBO 2022 organizing committee sent reminders to the coordinators but only 22 teams paid the participation fee by this deadline. The IBO 2022 organizing committee extended the deadline to May 7. 18 more teams transferred the participation fee by this extended deadline. The IBO 2022 organizing committee was requested by some teams to extend the payment deadline for them for a number of reasons, such as until they would get financial support, until they would select their competitors to be approved for the finances, until they receive their visas etc. The IBO 2022 organizing committee agreed to extend the deadline for all the teams that had requested. As a result 18 countries transferred the fee by the end of May, 5 countries in June and 3 countries in July.

3.5 Team Data

The deadline for team data was initially set as June 1.

This is the stage when the coordinators fill in the personal details of each participant, such as the personal data, contact data, address data, consent and declaration forms, passport data, photo and details regarding educational, medical and dietary needs.

The IBO 2022 organizing committee constantly sent reminders about the team data to the coordinators however this deadline was missed as well mainly because of late national selection.

At this stage the IBO 2022 organizing committee faced a few trouble-causing situations such as the distribution of hotel rooms (because the IBO 2022 organizing committee didn't have the full list of the participants), the visa issuance of those countries that can receive visa only upon the formal invitation (but the IBO 2022 organizing committee did not have the names of

participants and their passport details for the invitation) and the preparations of printing the yearbooks (because of the incomplete list of participants and photos).

Since most participating teams had transferred the participation fee as of June, thus confirming their participation in the IBO 2022, the IBO 2022 organizing committee decided to wait for all those teams to submit the participants list and photos to include their names and photos in yearbooks. As a result, the IBO 2022 organizing committee received all this information in the beginning of July which caused the late printing of the yearbooks.

3.6 Visa

Among 65 participating countries and regions only 19 needed visas to enter Armenia.

11 countries were eligible to apply for E-VISA which is processed in 3 days.

8 countries could obtain the visa at the Embassies (Consulates) of the Republic of Armenia BY INVITATION ONLY. The individual invitation letters were to be submitted by the IBO 2022 organizing committee to the Ministry of Foreign Affairs of the Republic of Armenia and when approved the participants should visit the nearest Armenian Embassy/Consulate or send their passports there to get the visa. We informed those countries that for this procedure 1 month was required from our side after receiving the passport scans of the participants: up to 1 week to prepare all the documents within the university and up to 3 weeks to be approved by the Ministry. Unfortunately, some participants sent the required documents to the IBO 2022 organizing committee late, however, in the end, all the participants who applied for a visa, received the visa to come to Armenia.

4. IBO 2022 EXAMS

The IBO 2022 exams were conducted at The Sports and Concert Complex named after Karen Demirtchian.



320 special tables were purchased so that the theoretical and practical stages could be held as comfortably as possible for the participants.

320 brand new laptops were bought for the IBO 2022 exams.

4.1 Practical Exams

The topics of the Practical Exam of the IBO 2022 were:

- Animal Systematics and Anatomy
- Biochemistry
- Bioinformatics
- Plant Anatomy and Physiology

During the practical exam, participants were given four experimental problems. Each practical task lasted 1.5 hours. The participants were divided into four groups, and each group performed the assigned tasks in order. There were 3 breaks. 2 of them lasted 20 minutes and 1 break lasted 1 hour.

The practical task of Bioinformatics was organized in a web application installed in laptops bought for the IBO 2022 exams.

The demo application of Bioinformatics was published on ibo2022.org official website beforehand.







Purchased items for Biochemistry

Name	Quantity
Spectrophotometer with opaque cuvette	81
Cuvettes	600
Pipette 5-50 μL	80
Pipette 20-200 μL	80
Pipette 100-1000 μL	80
Pipette tips – 100-1000 μl	200
Pipette tips – 5-200 μl	5000
Eppendorf tube holder	80
Empty Eppendorf tubes	700
Filter paper	1000
Gloves	320 pairs
Pen	80
Pencil	80
Eraser	80

Ruler	80
Marker pen	80
Clock (stopwatch)	80
Trash can	320
Calculator	80

Purchased items for Bioinformatics

Name	Quantity
Computer with Application running	80
Envelope with materials	320
Calculator	80
Pen	180

Purchased items for Plant Anatomy and Physiology

Name	Quantity
Bench lamp	80
Monocular microscope	80
Fresh spinach leaf (Spinacia)	320
Chilled solution labelled 1: "Isolation medium"	320
Solution labelled 2: "Reaction medium"	320
Glass beaker wrapped in foil (50 ml)	320
Mortar and pestle	320
Stopwatch	80
Sieve with cheesecloth	320
Fine glass capillary tubes	1600
Aluminum foil	320
Red filter	320
Green filter	320
Pasteur pipettes	640
Ice bath	80
Table for capillary tubes	80
Color scale	80
Glass rod	320
Scissors	320
Marker	80
Microscope slide	1300
Cover glass	1300

Tweezers	320
Scalpel	320
Razor blade	320
Inoculation loop to use as dissecting needle	320
Small dropper bottle of distilled water (labelled H2O)	320
Small dropper bottle of HCl 25% solution (labelled HCl)	320
Small dropper bottle of phloroglucinol solution (labelled 3)	320
Small dropper bottle of glycerol (labelled 4)	320
Styrofoam rack with 4 pcs of Eppendorf tubes with plant stem samples	320
labelled II to V	
3 plants samples labelled B, C, and D in zip-lock bags	80
Microscope slide of an unknown plant labelled "I"	80
7 photos labelled A, E, F, G, H, I and J	80
Photo: Fig. 1 Types of stele in vascular plants	320

Purchased items for Zoology

Name	Quantity
Fish specimens for Part 1 only	240
Fish specimen of a supposed "new" species for Part 2 only	80
Photographs of fish for Part 2 only	240
Mask	320
Dissection tray	320
Magnifier with a double 3x and 10x lens	80
Tweezers	320
Scissors	320
Scalpel	320
Plastic gloves	320
A water bottle to keep fish moist	80
Paper tissue	320
Plastic bag for biological waste	320
Stationery (pen, pencil, pencil sharpener)	80
Red card	80

4.2 The Assessment Program for Practical Exams

A program was developed to check and assess the practical exams of Animal Systematics & Anatomy, Biochemistry and Plant Anatomy & Physiology.

The program worked on the basis of the FlexiCapture licensed software package of the ABBYY company.

The calculation part was done with Microsoft Excel.

FlexiCapture software enables recognition and conversion of handwritten and typed texts from pictures for further processing. In the IBO 2022 it was used to measure the results of practical work transferring the texts (mainly numbers) and X marks in the forms filled in by students into the Excel electronic editor, to perform calculations and evaluate the works.

The completed ANSWER SHEETS were scanned, turned into pictures, which were processed with the program, receiving numerical values and marks. The latter were also transferred to the Excel spreadsheet to perform the necessary calculations.

4.3 Theoretical Exams

The theoretical exam contained **100 questions**.

The theoretical exam consisted of two parts: **part A** and **part B**, each lasting three hours.

The Classmarker web-based quiz maker was purchased for conducting the theoretical exam. The results were automatically generated after finishing the exam.



4.4 Quality Assurance of Exams

The quality of the IBO exams was discussed with the international advisors and sub-jury.

The subgroup consisted of 10 members: 5 international advisors and 5 sub-jury members.

The international advisors were Margaret Linford, Mary Oliver, Anindya Sinha and Poonpipope Kasemsap.

The sub-jury members were Jan Černý, José Matos, Saman Hosseinkhani, Takao Ishikawa,

Tatsuhiko Noguchi (joined online), Katarina Jurikova (joined online).

The subgroup conducted its sessions at Ani Plaza Hotel on July 5-10, 2022.

The group of inspectors followed the implementation of the exams. The head of the inspectors was Birthe Zimmermann.

5. IBO 2022 EVENTS AND VENUES

5.1 Program

JURY	SCH	EDULE	Day	Hour	Jury	Day	Hour	Jury
-			14.07.22	08:00-08:30	Breakfast	17.07.22	08:00-08:30	Breakfast
Day	Hour	Jury	14.07.22	09:00-09:15	Bus Transfer to Garni	17.07.22	08:30-09:00	Bust Transfer to Erebuni Historical
				09:55-11:00	Excursion in Garni			& Archaeological Museum-Reserve
10.07.22		Arrival of Participants I Registration		11:15-12:30	Excursion in Geghard		09:00-11:30	Excursion in Erebuni
	17:30-20:30	Opening Ceremony		12:30-13:30	Return to the Hotel		11:30-12:00	Return to the Hotel
		Welcome Dinner		13:30-14:30	Lunch		12:00-13:30	Free Time
		Venue: Armenian Opera Theatre		14:30-15:00	Walk to Matenadaran		13:30-14:30	Lunch
		Return to the Hotel			(Institute of Ancient Manuscripts)		14:30-15:00	Walk to Cafesjian Center for the Arts
11.07.22	08:00-08:30	Breakfast		15:00-17:00	Excursion in Matenadaran		15:00-16:00	Excursion in Cafesjian Center for the Arts
11.07.22	09:00-11:00	Discussion of Practical Tasks		17:00-17:30	Return to the Hotel		10:00 10:20	
		Venue: Ani Plaza Hotel		18:00-18:30	Dinner		16:00-16:30	Return to the Hotel
	11:00-11:30	Coffee Break		19:30-20:00	Bus Transfer to Sport and		16:30-17:00 17:00-17:30	Coffee Break
	11:30-13:30	Translation of Practical Tasks			Concert Complex			Walk to Armenian Opera Theatre
	13:30-14:30	Lunch		20:00-23:00	After Party		18:00-21:00	Closing / Award Ceremony
	14:30-16:30	Translation of Practical Tasks			(Venue: Sport and Concert Complex)			Farewell Dinner
	16:30-17:00	Coffee Break		23:00-23:30	Return to the Hotel			Venue: Armenian Opera Theatre
	17:00-19:00	Translation of Practical Tasks	15.07.22	08:00-08:30	Breakfast			Return to the Hotel
	19:00-20:00	Dinner	15.07.22	09:00-14:30	General Assembly Meeting	18.07.22		Breakfast
	20:00-22:00	Translation of Practical Tasks			Venue: Ani Plaza Hotel	TOTOTLE		Departure
	22:00-22:30	Coffee Break		11:00-11:30	Coffee Break			
	22:30-24:00	Downloading Translated Practical Tasks		13:30-14:30	Lunch			
		and Printing		15:00-22:00	Results Review			
12.07.22	08:00-08:30	Breakfast			Venue: Ani Plaza Hotel			
12.07.22	09:00-11:00	Discussion of Theoretical Questions 1		16:30-17:00	Coffee Break			
	11:00-11:30	Coffee Break		19:00-20:00	Dinner			
	11:30-13:30	Translation of Theoretical Questions 1	46.07.00	08:00-08:30	Breakfast	1		
	13:30-14:30	Lunch	16.07.22	09:00-18:00	IBO Educational Conference			IBO
	14:30-16:30	Translation of Theoretical Questions 1			"The IBO Way to Excellence"		(μ)	33rd 2022
	16:30-17:00	Coffee Break		11:00-11:30	Coffee Break			ARMENIA
	17:00-19:00	Translation of Theoretical Questions 1		13:30-14:30	Lunch			ANTIENIA
	19:00-20:00	Dinner		16:30-17:00	Coffee Break			
	20:00-22:00	Translation of Theoretical Questions 1		18:30-19:00	Bust Transfer to the Restaurant			
	22:00-22:30	Coffee Break		19:00-23:00	Dinner out			
	22:30-24:00	Translation of Theoretical Questions 1		23:00-23:30	Return to the Hotel			
10.07.00	08:00-08:30	Breakfast					COMPET	ITORS & JURY
13.07.22	09:00-11:00	Discussion of Theoretical Questions 2						
	11:00-11:30	Coffee Break					SCF	IEDULE
	11:30-13:30	Translation of Theoretical Questions 2	Notes					
	13:30-14:30	Lunch				3		
	14:30-16:30	Translation of Theoretical Questions 2						
	16:30-17:00	Coffee Break						
	17:00-19:00	Translation of Theoretical Questions 2				-	THE TTA	NTERNATIONAL
	19:00-20:00	Dinner						NTERNATIONAL
	20:00-22:00	Translation of Theoretical Questions 2	-					GY OLYMPIAD
	22:00-22:30	Coffee Break					UUV 2022	
	22:30-24:00	Downloading Translated Theoretical Tasks and Printing					10-18	JULY 2022

THE **33**rd INTERNATIONALBIOLOGY OLYMPIAD

10-18 JULY 2022

SCHEDULE COMPETITORS

Day	Hour	Competitors	Day	Hour	Competitors	Day	Hour	Competitors
10.07.22		Arrival of Participants I Registration	14.07.22	06:30-07:00	Breakfast	17.07.22	08:00-08:30	Breakfast
	17:30-20:30	Opening Ceremony		07:30-08:00	Bus Transfer to the Exam Venue		09:00-09:30	Walk to Vernissage Market
		Welcome Dinner		09:00-12:00	Theoretical Exam 1		09:30-11:30	Excursion in Vernissage
		Venue: Armenian Opera Theatre			Venue: Sport and Concert Complex		11:30-12:00	Return to the Hotel
		Return to the Hotel		12:00-13:00	Lunch		12:00-13:30	Free Time
	22:00-06:00	Sleeping		13:00-16:00	Theoretical Exam 2		13:30-14:30	Lunch
	08:00-08:30	Breakfast		16:00-16:30	The End of the Exam		14:30-17:00	Free Time
11.07.22	09:00-09:15	Bus Transfer to the Exam Venue			and Bus Transfer to the Hotel		17:00-17:30	Walk to Armenian Opera Theatre
	09:45-11:00	Safety and Laboratory Instructions		18:00-18:30	Dinner		18:00-21:00	Closing / Award Ceremony
	05.45-11.00	Venue: Sport and Concert Complex		19:30-20:00	Bus Transfer to Sport and			Farewell Dinner
	11:30-13:30	Return to the Hotel			Concert Complex			Venue: Armenian Opera Theatre
	11.50 15.50	Free Time			After Party		21:00	Return to the Hotel
	13:30-14:30	Lunch			(Venue: Sport and Concert Complex)			Sleeping
	15:00-17:00	Excursion in Yerevan		23:00-23:30	Return to the Hotel		09:00-11:30	Breakfast
	17:30-18:30	Dinner		23:30-07:30	Sleeping	18.07.22	12:00-13:30	Departure
	18:30-21:30	Free time	15.07.22	08:00-08:30	Breakfast		12.00-15.50	bepuildie
	21:30-22:00	Light Dinner		08:30-09:00	Bust Transfer to Erebuni Historical &			
	22:00-06:00	Sleeping		00 00 44 30	Archaeological Museum-Reserve	A		
	06:30-07:00	Breakfast		09:00-11:30 12:00-13:30	Excursion in Erebuni Return to the Hotel			
12.07.22	07:30-08:00	Bus Transfer to the Exam Venue		12:00-13:30	Free Time			
	09:00-17:00	Practical Exam		13:30-14:30	Lunch	Notes		
	05.00 11.00	Venue: Sport and Concert Complex		14:45-15:00	Bus Transfer to Yerevan State University			
	12:30-13:30	Lunch		15:00-19:00	International Group Project	20		0
	17:00-17:30	The End of the Exam		13.00-19.00	Poster Session			
		and Bus Transfer to the Hotel			(Venue: Yerevan State University)			
	18:00-19:00	Dinner		19:00-19:15	Return to the Hotel			
	19:00-21:30	Free Time		19:30-20:30	Dinner			
	21:30-22:00	Light Dinner		20:30-22:00	Free Time			
	22:00-06:00	Sleeping		22:00-06:00	Sleeping			
42.07.00	08:00-08:30	Breakfast	46.07.00	08:00-08:30	Breakfast			
13.07.22	08:45-09:00	Bus Transfer to Garni	16.07.22	09:30-13:00	Walk to Cafesjian Center for the Arts	~		
	09:40-11:00	Excursion in Garni			Excursion in Cafesjian Center for the Arts			
	11:15-12:30	Excursion in Geghard		13:30-14:30	Lunch	-		
	12:30-13:30	Return to the Hotel		15:00-15:30	Bus Transfer to Yerevan Park			
	13:30-14:30	Lunch			(Amusement & Theme Park)	<u></u>		
	14:30-15:00	Walk to Matenadaran		15:30-21:30	Excursion in Yerevan Park			
	And a second sec	(Institute of Ancient Manuscripts)		19:30-20:30	Dinner in Yerevan Park			
	15:00-17:00	Excursion in Matenadaran		21:30-22:00	Return to the Hotel			
	17:00-17:30	Return to the Hotel		22:00-06:00	Sleeping			-
	17:30-18:30	Dinner						
	18:30-21:30	Free Time						
	21:30-22:00	Light Dinner						
	22:00-06:00	Sleeping						
					l]	<u></u>		

5.2 Ceremonies

The opening ceremony was held at Armenian National Academic Theatre of Opera and Ballet named after Alexander Spendiaryan with the participation of the Chief of Staff of the RA Prime Minister Dr. Arayik Harutyunyan, RA Minister of Education, Science, Culture and Sports Dr. Vahram Dumanyan, Rector of Yerevan State University Dr. Hovhannes Hovhannisyan. The IBO chairperson Dr. Ryoichi Matsuda made opening remarks.

During the opening ceremony, Mkhitar Heratsi, the 12th century Armenian physician and philosopher, via modern technologies greeted the young biologists of the 21st century and wished them success.

The speeches of the speakers were followed by a concert program organized by YSU Charles Aznavour Culture Center. The pop-symphonic orchestra of the Public Radio and Television of Armenia (artistic director: People's Artist of the Republic of Armenia Yervand Yerznkyan) and Sargis Bazhbeuk-Melikyan performed cultural performances.

Musical performances were followed by dance performances. "Mer Dar" dance was performed by the "Barekamutyun" dance ensemble (artistic director: RA People's Artist Norayr Mehrabyan), and the solo dance "Komitas" by Ani Haroyan.













The closing and award ceremony was held at Armenian National Academic Theatre of Opera and Ballet with the participation of Chief of Staff of the RA Prime Minister Dr. Arayik Harutyunyan, RA Deputy Minister of Education, Science, Culture and Sports Dr. Zhanna Andreasyan, Rector of Yerevan State University Dr. Hovhannes Hovhannisyan.

The event concluded with cultural performances. Musical performances were performed by the "YSU band" and "Little singers" choir (artistic director: RA honored educator Tigran Hekekyan).

The medals and group project awards were given to the participants. The trophy was officially transferred to the next host country UAE.










5.3 Excursions

During the pre-examination day, the students got acquainted with Yerevan, visited the **Victory Park** where the monumental statue of Mother Armenia (a female personification of Armenia) is located overlooking the capital city of Yerevan.





The participants went to UNESCO protected Garni Temple and Geghard Monastery.

Garni is known for the nearby classical temple. The Temple of Garni is a hellenistic period building in Armenia.





A souvenir (presented below) was distributed to the participants as a memento after the visit to

Geghard is a medieval monastery being partially carved out of the adjacent mountain, surrounded by cliffs.



Museum "Erebuni" is a museum of the history of the founding of Yerevan.

In the Erebuni fortress there is a cuneiform record inscribed on the stone slab which says: "In the greatness of God Khaldi, Argishti, the son of King Menua, has built this impregnable fortress and called it Erebuni..."









Matenadaran is a Research Institute of Ancient Manuscripts that has a permanent exhibition. Visiting Matenadaran gives the opportunity to get acquainted with the richest manuscript heritage of the Armenian people.

In Matenadaran a master class was held for the participants under the title "Application of Biological Methods in the Preservation of Armenian Manuscripts".













Cafesjian Center for the Arts is an art museum in Yerevan, Armenia. It is around the Yerevan Cascade which is a complex of massive stairs with fountains. The museum is dedicated to bringing the best of contemporary art to Armenia and presenting the best of Armenian culture to the world.







"Vernisage" is an open-air fair, where the participants got acquainted with the fusion of Armenian national traditions and the dominant taste in the modern world.





"Yerevan park" is a theme park with two dozen high-quality attractions, live shows, restaurant, merchandise shop and lovely characters who add that finishing touch to the fairy tale. The students visited the park after the exams, while the jury dined out at "Arqayadzor" restaurant complex.







After the exams, an outdoor entertainment event was held at the courtyard of The Sports and Concert Complex (the exam venue) where the students and jury members were reunited. The participants were taught and enjoyed Armenian traditional dances.







A souvenir (presented below) was distributed to the participants as a memento of The Sports and Concert Complex.



6. INTERNATIONAL GROUP PROJECT 2022

62 students from 31 teams participated in the International Group Project 2022 (IGP 2022). They selected a topic out of 5 suggested fields, and submitted their work as 17 different posters. The work was facilitated through former IBO participants from different countries (international facilitators). 15 facilitators from 8 countries worked with the students from June 12, 2022 to July 1, 2022. The work was conducted online.

Students had only 18 days to work together. This time shortage was due to late selection from individual teams of IBO 2022 participants, and some time needed for IGP 2022 registration and team allocation.

6.1 IGP 2022 Organization

On June 11, the IBO 2022 organizing committee organized a Zoom meeting with the facilitators and shared with them the information on IGP, how they are supposed to work, what are Do's and Don'ts, and what are the expected results. On June 12, the IBO 2022 organizing committee organized a similar info-meeting with the registered participants and informed them about group allocation based on the selection. On the same day, they connected with their facilitator and started to work on the project online.

The following fields were suggested to students for selection: Biomedicine, Molecular and Cell Biology, Bioinformatics and Artificial Intelligence, Across Species, Bionics and Biomimicry. They could select more than one topic in order to facilitate the organizational work of team allocation.

Molecular Cell Biology is the most selected topic (7 teams), along with Biomedicine (6 teams).

Торіс	How many teams?
Biomedicine:	6
Molecular Cell Biology	7
Bioinformatics and AI	3
Bionics and Biomimicry	1
Across species	1

The jury members who evaluated the work were: Mary Oliver (UK), Maggy Linford (UK), Anindya (Rana) Sinha (India), Poonpipope Kasemsap (Thailand), José Matos (Portugal), Jan Černý (Czech Republic), Saman Hosseinkhani (Iran), Takao Ishikawa (Poland). Jury members evaluated the students according to 5 criteria, and gave a consensus score for each category. Six teams received an award: three teams-3rd prize, two teams-2nd prize, and one team-1st prize. The results are summarized in the table below.

Group	Facilitator	Name	Country	Medal	Topic	Poster Title	Research question / Creativity	Methodology	Discussion and conclusions	Presentation (on spot)	Question and answer (on spot)	Sum	Poster Prize
		Michael, Purnama	Indonesia	Gold									
1	Shushan Toneyan (Armenia)	Liam Audrey, Alleda Aravindh, Kuppusamy Velmurugan Daviti Giorgadze	Philippines Singapore Georgia		Bioin- for- matics and AI	Evolution of the Fenna- Matthews- Olson (FMO) Complex	3	3	4	3	3	16	No

2	Barbara, Buchalska (Poland)	Aleksandra Kowalczyk Sebastian Krikke Jorūnė Budriūnaitė	Poland Netherlands Lithuania	Silver Silver Bronze		Exposure of Mesenchymal Stem Cells to cerebrospinal fuid in Alzheimer's disease treatment	3	3	3	3	4	16	No
3	Lawnaldi, Sugiarto (Indonesia)	Tristan, van der Beek Basel Alkanjo	The Netherlands Syria	Bronze Silver	Molecu- lar and Cell Biology	Nanobodies as Treatment Tools For Parkinson's Disease	5	4	3	5	5	22	3rd
4	Stevan Bodganov (North Macedonia)	Albert Rumle Bernsen Szymon Bander Karina Karina	Denmark Poland Russia	Bronze Silver Gold	Bionics and Biomi- micry	Application of biomimicry- based materials to improve microclimate in Yerevan city center	5	5	5	3	4	22	3rd
5	Joan Nadia Laksmana (Indonesia)	Paul, Ugwu Jose Javier Quintana Rodríguez Zuzanna Żyra Urh Šarlah	Nigeria Spain Poland Slovenia	Nothing Nothing Silver Nothing	Biome- dicine	CAR T-cells treatment for Goodpasture's syndrome	3	3	3	4	3	16	No
6	Anush Margaryan (Armenia)	Celine Xie George, Lee ROHIT PANDA , PANDA	Denmark Singapore INDIA	Nothing Silver Silver	Across	THREE WAY SYMBIOSIS: Exploring a unique way Of Extreme Heat Tolerance	5	5	4	5	5	24	1st
7	Nethmini, Rathnayake Nirasha (Sri Lanka)	Kriti Shahu Raven Foronda Abdullah Jaddaa	Nepal Philippin es Syria	N/A Bronze Silver	Molecu- lar and Cell Biology	Novel method of identifying tumor status by using hyperpolarized	3	3	3	3	4	16	No

			Russian			substrates							
			Federation			abouraces							
		Nazim	(IBO team)	Gold									
		Lawand	(
		Bayram	Syria	Merit									
		Giorgi	1										
		Nebulishvili	Georgia	Nothing		Preventing							
		Wijepala	0	0	Molecu-	Breast							
	Jeremy Ng	Abeysinghe			lar and	Cancer							
8	(Philippines)	Thennakoon			Cell	Metastasis	4	4	4	3	2	17	No
	(1 mippines)	Mudiyanselage			Biology	by Silencing							
		Praveen			210108)	the SNAP25							
		Charuka				Protein							
		Thennakoon	Sri Lanka	Nothing									
		Ema Suligoj	Slovenia	Bronze									
		Jagienka	Slovenia	DIOIIZC									
		Mądrzak	Poland	Gold		Mesenchymal							
	Jovana Stojcheska	iviquizun	United	Goia		stem cell-							
		Moza	Arab			derived							
9		Aldhanhani	Emirates	Nothing	Biome-	exosomes	3	4	4	4	4	19	No
-	(North	Bobur	Liiiiuces	i totiiiig	dicine	therapeutic	-	_					
	Macedonia)	Poudel	Nepal	N/A		role in diabetic							
						cardiomyo-							
		Urban Bauk	Slovenia	Bronze		pathy						ļ	
		Adnan											
		RIHAWI	Syria	Nothing									
	Farrel,		The		Molecu-	Controlled							
10	Marsetyo	D. (* 1	Republic		lar and	Expression of	2	2	2	3	3	12	No
	(Indonesia)	Mila Dimitra al a	of North		Cell	Telomerase							
	, , ,		Macedonia	N/A	Biology								
		Yerassyl	Kazakhst	0.1									
		Temirbekov	an	Silver									
		Karthik Pravin	0.11	NT .1 ·									
		Ramachandran	Srilanka	Nothing									
		Owen Ong	Singapore	Gold		Therapy for							
		Harshan,			Molecu-	Lactose							
	Lilit	Arulmoli	Sri Lanka	Bronze	lar and	Intolerance By							
11	Grigoryan	Alikhan			Cell	CRISPR/dCas9	4	4	2	4	3	17	No
	(Armenia)	Zhumagaleyev	Kazakhstan	Silver	Biology	-mediated							
		Yakov				Epigenome							
		Korobitsyn	Russia	Gold		Editing							

12	Robert Yeghikyan (Armenia)	Min Seo, Koo Joo Chan, Kim Semyon	Singapore South Korea	Gold Silver	Biome- dicine	Design of a Low-Cost Point-of-Care Test Kit for COVID-19 Cytokine Storm	4	5	4	5	4	22	3rd
		Shmakov	Russia	Gold		Susceptibility							
013	Arman Simonyan (Armenia)	Povilas Šaučiuvienas Dumitrescu Ștefan-Ionel Markuss	Lithuania Romania	Silver Bronze	Bio- infor- matics and AI	A NOVEL PROPOSAL FOR INDUCING CONTROL- LABLE MAGNETO- TACTIC MOVEMENT	4	4	5	5	5	23	2nd
		Gustavs Kenins RAYAN, RAHMAN	Latvia BANGLA DESH	Bronze		IN THE CILIATE T. THERMO- HILA							
14	Lilit Grigoryan (Armenia)	Joo Hyun, Hahm FAYYAD, AHMMED Nadav, Qvit	South Korea BANGLA DESH Israel	Silver Bronze Silver	Molecu lar and Cell Biology	through regulation of	4	3	4	4	3	18	No
		Nguyên, Đỗ (Nguyen, Do)	Vietnam	Bronze	Diology	the BCL-3 Pathway							
	Robert	Yechan, Jeong Seraphim, Joliat	South Korea Liechtens tein	Silver Merit	Biome-	No poster							
15	Yeghikyan (Armenia)	TAHSEEN SHAAN, LEON Mindaugas Smetaninas	BANGLA DESH Lithuania	Bronze	dicine	submitted							No
16	Tzang, Chih Chen (Taiwan)	Seoyeon, Jeon Mane Kurghinyan	South Korea	Bronze	Molecu- lar and Cell Biology	Applying Autophagy as a treatment for Huntington's	5	4	4	5	5	23	2nd

		KHUNDKE R ISHRAQ, AHAMMAD Donato Elías Pellegrini	BANGLA DESH Argentin a	Bronze	disease							
17	Arman Simonyan (Armenia)	Nauris Priksans Ján Plachý Syuzi Sahakyan	a Latvia Slovakia Armenia	Silver Silver Merit	DISEASE		4	3	3	2	16	No
18	Josue Francisco, Laszeski (Argentina)	Ottó Tatai Arman Hayrapetyan Siluni Wickramath ilake Aikaterini, Karpouzi Daniel Čičovský	Hungary Armenia Sri Lanka Greece Czech republic	Bronze Bronze Nothing Merit Silver	METHODS Synthetic Fibrinogen as a treatment for Afibrino- genemia	3	3	4	3	3	16	No

Jury members evaluated posters with the following five criteria, each 5 points maximum, and in total 25 points.

Research	Methodology	Discussion and	Presentation (on	Question and
question /		conclusions	spot)	answer (on
Creativity				spot)

Jury members evaluated the first three criteria by reading pdf posters, and the last two on spot, at the poster presentation site. They gave their points not individually but as a consensus reached by all of them. The advantage of IGP is that it includes both theoretical and practical work, and it also includes teamwork skills, as well as public presentation, which are not tested during theory and practical tasks. So, it should be evaluated separately. It can have 10% value in total score, and Theory and Practical parts can have 45%+45%. Each team member will get the same score, as the other team members, as it will be impossible to judge the team members. The students will share the same score as the team received. The students who participated in the

IGP 2022 have also participated in Theoretical and Practical exams of IBO2022, and some received medals. Their performance is summarized in the table above.

Initially 4 members per each group was allocated, however, some students did not participate as much as the others and dropped out from the group. The IBO 2022 organizing committee has asked the groups and facilitators to confirm the group member name only in the case they agree that all the students had sufficient contribution to be in the group. Hence, some groups had less than 4 members in the end.

An exhibition of posters of the international group project took place at YSU. A summary of the results of the group project was done.













An award and a certificate were given during the closing ceremony to the IGP winners.


A souvenir (presented below) was distributed to the participants as a memento of Yerevan State University.



6.2 International Group Project Posters



- The precise effect a change in a key protein's conformation has on the survival and reproducibility of the organism is difficult to determine. Furthermore, we build the experimental design based on the assumption that the BHAGEERATH-H produces accurate predictions of FMO complex's molecular structure. These caveats can be addressed with 1) a case-controlled study of precisely how superior photosynthetic efficiency (more specifically, that of coherence transfer) might contribute to fitness, and 2) better 3-d models of protein structure, possibly by extracting them from living tissue and imaging them.
- The design proposed would serve as a foundational model for more robust studies, and contribute some preliminary knowledge to the field.

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Exposure of Mesenchymal Stem Cells to cerebrospinal fluid in Alzheimer's disease treatment

Group 2 (biomedicine): Jorūnė Budriūnaitė (Lithuania), Aleksandra Kowalczyk (Poland), Sebastian Krikke (Netherlands), Facilitator: Barbara Buchalska (Poland)

ABSTRACT

In this article we investigate whether treating mesenchymal stem cells used in an experimental treatment of Alzheimer's disease (AD) with cerebrospinal fluid or medium containing beta-amyloid- and tau proteins instead of with AD mouse brain homogenate will improve treatment outcome in transgenic APP/PS1 mice. The results of the treatment where assessed using memory tests and PET staining of beta-amyloid- and tau proteins.

INTRODUCTION

Alzheimer's disease (AD) is a debilitating and universally fatal disease that effects large parts of the population (up to 30% of those aged 85 and older) and will cause an estimated disease burden of US\$ 9.1 trillion by 2050 [1][2]. It manifests itself in the form of gradually worsening cognitive deficits eventually resulting in almost complete loss of brain function and subsequent death. The causes and mechanism of AD are not fully understood but plaques consisting of beta-amyloid- and tau proteins are believed to be implicated. As of yet no effective treatments has been found to either cure AD or relieve its symptoms despite extensive efforts to do so [3; 4]. Recently Santamaria et al. (2021) have attempted to treat AD in model organisms (mice) by utilizing the paracrine activity of mesenchymal stem cells (MSC's). Though their efforts were successful, resulting in significant improvements of disease outcome, the methods used required the use of brain homogenate extracted from AD mice [5]. Due to ethical concerns it would be hard to replicate this therapy in humans so in this study we investigate the effectiveness of different substitutes for AD mouse brain homogenate. homogenate.



The order in which AD effects different parts of the brain [10]



OBJECTIVES

Currently there are no available treatments for AD, despite the active research. The objective of this poster is to suggest another treatment option for AD in transgenic mice, which, if successful, could be replicated in humans. Our suggested experiment seeks for a way in which a proven effective treatment in mice could be transformed so that it would be possible to test it out on humans, as human brain homogenate is not an ethical option for a trial.

Furthermore, we wish to research the effect that MSC's secretome has on a brain that is affected by AD, when MSC's are exposed to different substances and mixtures of substances in their growth medium. We also wish to discover more about the effects of exposing stem cells to different substrates before insertion into the mice.

DISCUSSION

MSCs are currently the most frequently studied of all stem cell types [3] because they are unique in terms of their paracrine anti-amyloid activity [4]. Studies have shown that MSC secretome treatment is much more efficient for AD mice if MSCs are in vitro exposed to brain homogenate of AD mice before their insertion to the treated mice [5]. However, we would not be able to apply this in human trials because of ethical issues which is why we propose using cerebrospinal fluid (CSF) instead. The content of AD patient's CSF is somewhat similar to that of their braincells (e.g. tau protein) but there are differences, for instance an increased level of amyloid beta in brain and its decreased level in CSF [8]. That is the reason why one groups in our experiment contains CSF enriched with amyloid beta.

We have planned five different groups so as to compare the efficiency of each treatment. It is hypothesized that MCSs exposed to CBS fluid would be less successful in improving AD mice memory than MSCs exposed to brain homogenate because the components of those substances are slightly different and that MCSs exposed to CBS fluid would be more successful in improving AD mice memory than MSCs exposed to modium antiched with amyloid beta and tau protein because the pathogenesis of AD cannot be restricted to those two components.

METHODS

In our experiment we are exposing MSCs to different substances so as to find the best possible treatment for Alzheimer's disease (AD) using their paracrine activity.

First MSCs are isolated from bone marrow of healthy donors (mice) and divided between five samples in which they are exposed in vitro to medium enriched with different substances: AD mouse brain homogenate, AD mouse cerebrospinal (CBS) fluid, AD mouse CBS fluid plus amyloid beta, amyloid beta and tau protein, and unmodified medium for 24 hours. Then the supernatant is collected and concentrated

Transgenic APP/PS1 12-month-old male mice are divided into four groups and each group undergoes different intranasal treatment including daily inhalations with MSC secretome. After 30 days the effects are measured by memory test and positron emission tomography (PET) for amyloid beta and tau protein. Results of all groups are put together and compared.

The progression of the disease would be monitored by performing PET scans using Pittsburgh compound B. This method uses a radioactive analogue of thioflavin which binds to fibrillar A β forms, therefore visually assessing brain amyloidosis [6].

Since brain amyloidosis is not the only factor in degeneration, the memory of the mice would also be assessed. Since usually APP/PS1 mice develop impairments in reference memory first, then associative learning deficits associated with fear conditioning and finally passive avoidance deficits, tests for all of these deficits (the Morris water maze for reference memory testing, a fear conditioning test for associative learning and a passive avoidance test, where mice learn to avoid an unpleasant stimuli) should be done before and after the treatment and the results assessed [7]

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Group 3: Molecular & Cell Biology Authors : Alexander Ardilsø Tristan Van Der Beek Group Facilitator : Lawnaldi Sugiarto

Nanobodies as Treatment **Tools For Parkinson's** Disease



Abstract

Nanobodies are recombinant, , single domain, variable fragments of camelid heavy chain-only antibodies. In recent years, more and more studies have been conducted in discovering their applications as efficient tools in diagnostics and disease therapy. Recent scientific research has approved the ability of these biomolecules to bind with β-amyloid proteins and prevent their further aggregation in Alzheimer's patients. In this poster, we highlight the possible capability of utilizing these nanobodies to inhibit the aggregation of alpha synuclein proteins, which are basically known to be pathologically related to the formation of lewy bodies in patients with Parkinson's disease.

Introduction

Unique functional heavy chain-only antibodies devoid of light chains are circulating in the blood of Camelidae, these antibodies recognize their antigen via one single domain known as VHH or Nanobody. High production yield in a broad variety of expression systems, minimal size, great stability, reversible refolding, outstanding solubility in aqueous solutions, and the ability to specifically recognize unique epitopes with subnanomolar affinity, have combined to make nanobodies a great class of biomolecules for research and various medical diagnostic and therapeutic applications. Parkinson's disease (PD) is the second most common neurodegenerative disease that affects populations worldwide. Indeed, many cellular hallmarks have been found to occur in PD patients, especially alpha synuclein aggregation and lewy bodies formation, the motor symptoms arise primarily from the loss of dopaminergic neurons in substantia nigra. Treatment of PD currently involves substituting dopamine, although many negative side effects had been recorded. In this poster we seek to design an experiment testing the potential effects of nanobodies to inhibit the aggregation of alpha synuclein proteins in PD patients, considering them as novel tools with many advantages for curing PD patients and reducing their symptoms.



Schematic representation of conventional immunoglobulin (IgGs), heavy chain-only antibodies (HCAbs) and nanobodies (VHH). VH, variable heavy; VL, variable light; VHH, VH of HCAbs

Objectives

The main objective is to propose a step by step experimental method for generating and utilising nanobodies against alpha synuclein proteins to prevent their aggregation, which could help in treating PD patients.

METHODS

A camelid is immunized with the wild type alpha synuclein protein at regular intervals, after that, mRNA could be isolated from peripheral blood lymphocytes, VHH region in the isolated mRNAs is amplified by PCR and become ligated into a phagemid , which is a cloning vector that has both phage and plasmid properties .The phagemid is subsequently transformed into E.coli cells, then the phagemid is transformed into infective phages by the superinfection of phagemid bearing E.coli cells with helper phages. A VHH library contained within the phage community would be obtained. By phage display technique (Biopanning), certain phages that express wanted nanobodies could be gathered, and these phages are retrieved by ELISA. The final step is to deduce the nucleotide sequence of the VHH region from the selected phages .These specific sequences could be cloned into expression vectors to produce the desired nanobodies.

The produced nanobodies can be injected intravenously in PD patients , they are known for their high permeability through various membranes and barriers, especially the blood brain barrier. Crossing the neurons' cellular membranes, they can bind specifically to alpha synuclein proteins and inhibit their polymerization into aggregates .



Overview of nanobody identification and production with biopanning for a phage display library. Hollow red diamonds in the figure denote antigens.

Discussion

Nanobodies acquire remarkable features that make them important candidates as nextgeneration tools for diagnostics and therapy. Particularly appealing is their ability to inhibit protein misfolding and aggregation especially in Alzheimer's disease. There is a great potential for nanobodies to become important therapeutics in the near future. displaying unprecedented efficacies in the treatment of diseases.

Alpha synuclein aggregation in PD patients is attributed majorly to the overexpression of the wild type protein, or the occurrence of 3 missense mutations that causes improper folding of the polypeptide and initiates its self-aggregation. Considering patients with the overexpression of the protein, nanobodies should be generated by immunizing the camelid with wild type alpha synuclein . On the other hand, treating patients that carry the missense mutations may require immunizing the camelids with the same mutant proteins. Further researches should focus on discovering specific epitopes on alpha synuclein that are highly correlated with the stability of the intact protein and the prevention of its self-aggregation.

CONCLUSION

The small size , strict monomeric state , robustness , and easy tailoring of these nanobodies distinguishes them from other antibody formats and small-molecule drugs, hence allowing their applications to extend toward different biological and medical researches. Using them as treatment tools for the Parkinson's disease still needs experimental approval . Its success would bring hope for those people that are suffering from neurodegenerative diseases all around the world.

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Application of biomimicry-based materials to improve microclimate in Yerevan city center

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Abstract

Biomimicry-based materials, mimicking bark, fish skin and butterfly wing scales, have been proposed to cool urban spaces. Based on computer simulation of selected Yerevan areas' microclimate, these materials were recommended for use. Properties of biomimicry-based materials and simulation results support the validity of continuing research in this field.

Introduction

Summer temperatures over 35°C and little cloud cover [1][2] affect Yerevan city life and thermal conditions, which has been indicated in scientific publications [1][3]. Therefore, there is a need to cool urban spaces, which has been achieved in architecture and engineering using different biomimicry-based structures and materials [4][5][6]. We believe that a new approach, using computer simulations to test cooling effect of biomimicry-based materials [5][7], brings us closer to their real and widespread use. To improve the microclimate of the citycenter of Yerevan, we propose the use of biomimicry-based materials with properties similar to tree bark, wing scales of *Ornithoptera priamus* butterfly and reflective fish skin. The cooling strategy of bark is shown in Fig.1a. The properties of butterfly scales and reflective fish skin are shown in Fig.2a and Fig.2c, respectively.

Objectives

The following hypothesis needs to be tested in order to evaluate if proposed solutions have positive impact on the selected areas' microclimate: The use of materials with properties similar to tree bark, reflective fish skin and wing scales of *Ornithoptera* butterfly in a selected part of Yerevan city significantly reduces the air temperature, creates increased air flow and improves people's thermal comfort (measured with predicted percentage of dissatisfied (PPD) values).

Methods

Material mimicking bark should have values of physical parameters as close as possible to those found in nature. It's influence on urban microclimate could be tested by inputing data into software, as presented in Fig.1b. The proposed modifications of materials mimicking wing scales of *Ornithoptero* and mimicking reflective fish skin, are shown in Fig.2b. and Fig.2d, respectively. These modifications are necessary before applying them in urban space. Two microclimatic simulations of 24h period were carried out on a chosen backyard and a public place in the city center of Yerevan. Simulations were conducted in the software Environmet, a well-described tool [19] used in the latest microclimatic research in urban areas [5][7][20]. The procedure of creating models and obtaining results in the Envi-met program is shown in Fig.3a. The actual location of modeled space, resolution (size of grid cell) and the default materials applied on the models are shown in Fig.3b. The meteorological data has been obtained from Zvartnots weather station [25] for 31.08.2021. The problematic places have been identified (high temperature, high PPD values, low wind speed) and appropriate use of biomimicry-based materials in these places has been proposed.

Results

Use of bark mimicking material on facades has been proposed to improve the conditions of problematic spaces, identified in the backyard simulation (Fig.4.1-3). The bark-mimicking material would increase convective upward movement of warm air by the facades. Simultaneous use of fish skin- and *Ornithoptera* scale-mimicking materials on the roads has been proposed, as the roads were identified as problematic area in the public space simulation (Fig.4.4.6.) Over reflective places, warm air will rise up and the presence of both biomimicking materials will enhance the parallel movement of air.

Discussion

Despite the widespread use of PPD [26][27], its accuracy is sometimes questioned [28]. However, in our study, most of the high PPD values are supported by high air temperature and low air velocity. The backyard simulation results confirm that cooling of this space is needed. After additional measurements of bark's physical parameters (Fig.1b), we recommend conducting simulations using materials with similar properties on the facades of this area. Obtaining lowered air temperature, enhanced vertical air movement near facades and lowered PPD values in this simulation, will form the basis for the prototyping and field testing of such a material. The public space simulation results confirm that cooling of this space is needed. A simulation with simultaneous use of reflective and absorbing biomimicry-based materials (Fig.2) should be conducted, as such an approach proved to be effective in previous studies [5][7]. Obtaining positive results, as those described above, would constitute the basis for completing the proposed modifications of these materials (Fig.2b; Fig.2d) and field tests. However, the disadvantages of this solution must be taken into account: the possibility of disturbing traffic by reflecting surfaces and the high temperature of dark surfaces. We believe that the positive results of the proposed simulations would support our hypothesis, and the field research supported by statistical tests would confirm it.

Conclusion

Two main conclusions were drawn from this study:

 Further research on biomimicry-based materials conducted in the way we propose is required to implement their widespread use in Yerevan city.

 The use of biomimicry-based materials can significantly increase the quality of life of the residents and be a solution to some of the city's problems, thus raising its prestige and providing sustainable development.



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CAR T-cells treatment for Goodpasture's syndrome

Paul Ugwu, Jose Javier Quintana Rodríguez, Urh Šarlah, Zuzanna Żyra Group facilitator: Joan Nadia Laksmana

ABSTRACT

Goodpasture's syndrome is a condition in which the body produces antibodies that attack the tissues of the lungs and kidneys. Current treatments are unable to completely eliminate the dangers of this syndrome and so new strategies ought to be sought after. New developments in CAR T-cell treatment have yielded positive results in curing auto immune diseases. The purpose of this poster is to provide an intricate procedure for the application of CAR T- cell therapy in treating Goodpasture's syndrome. The method involves nanoparticle infusion of mRNA molecules into CD8+ cells via the blood. These mRNA molecules code for a CAR(chimeric antigen receptor) that will enable the CD8+ cells to identify the plasma cells that produce anti-GBM(the autoimmune antibodies). With the identification of these plasma cells the CD8+ cells can destroy them. Due to the fact that no real experiment was done on this research, the efficacy and feasibility of this procedure is prone to a lot of questioning. Further research and studies will be required to develop this procedure into a clinically acceptable one.

INTRODUCTION

Chimeric antigen receptors (CAR) are receptors that are designed to target a specific antigen. In a novel immunotherapy T cells are engineered to express CAR on their surface to recognize and eliminate cells with certain antigens [1]. It was initially intended as a cancer treatment, but after its remarkable results, it gained a clinical interest beyond oncology [2,3] The number of investigated conditions is rapidly growing, but there is still a great deficit in data as most of the focus is only on the very common diseases.

Anti-glomerular basement membrane disease (Goodpasture's syndrome) is a rare autoimmune disease in which autoantibodies attack the basement membrane. It can lead to death or long-term health problems. The current solutions are insufficient, so new ones ought to be developed [4]. CAR T cells therapy has proved effective in autoimmune disorders, therefore it has a great potential to turn out successful in this case [5]. In this project, we propose a promising approach to the Goodpasture's syndrome's treatment by application of specially prepared CAR-T cells.

OBJECTIVE

The aim of this poster is to propose a procedure for modifying CAR T cells to treat Goodpasture's disease, which is characterized by the presence of autoantibodies (anti-GBM). Anti-GBM are directed against type IV collagen and they attack the basement membrane in the lungs and kidneys [6]. We propose a therapy to design CAR T cells to target B cells displaying anti-GBM.

METHODS

We will synthesize mRNA coding for a part of the α 3 chain of type IV collagen - the epitope for anti-GBM. The mRNA fragments will be enclosed in a biodegradable polymeric nanoparticle with antihuman CD8a antibodies on the surface that will allow nanocarriers to bind to the T cells. Nanocarriers will deliver mRNA to T cells by binding and



endocytosis. Inside cells mRNA will be expressed by the cell's structures into CAR. This technique will be first tested ex vivo by transfecting T cells culture and performing the enzyme-linked immunosorbent assay (ELISA) to detect the presence of properly expressed CAR. Only after ensuring the positive result, the drug will be administered to the patients by injection.

DISCUSSION

CAR T cell therapy turned out advantageous in treating various conditions. The ongoing investigations concerning autoimmune diseases for instance pemphigus vulgaris demonstrated promising results, which makes us positive that our therapy would be successful.

In cancer treatment, this therapy may lead to excessive activation of CAR T cells causing severe, even lethal toxicity - Cytokine release syndrome (CRS). However, these side effects aren't expected in autoimmune diseases, since CRS results from high tumour cell load and the frequency of autoaggressive B cells in Goodpasture's is much lower than tumour cells [7]. Additionally, the application of mRNA nanocarriers instead of T cells engineering in vitro greatly reduces the risk of undesirable reactions [8].

CONCLUSION

CAR-T cell therapy presents approaches to surmounting challenges in cell modification and thus has attracted significant attention. Combined with nano-based technology, we get an efficient way of eliminating autoimmune diseases such as Goodpasture's syndrome for good. On the other hand, both nanoparticles and CAR-T cells exhibit some form of toxicity in the body. The full potential of this procedure will surely be provided by advanced research in biomedicine.

Fun fact! Goodpasture's syndrome was first described by an American pathologist, Ernest Goodpasture, in 1919, coincident with the Influenza pandemic (1918-1920). This syndrome is more frequent in males and it's main cause is yet to be discovered.

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THREE WAY SYMBIOSIS
Exploring a unique way Of Extreme
Heat ToleranceFacilitator: Anush Margaryan
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George Lee (Singapore) Exploring a unique way Of Extreme

ABSTRACT

Fungi are able to manipulate the phenotypic plasticity of their host plants. Recently, viruses have been found to play a role in this symbiosis, thus creating a 3-way relationship. This relationship between viruses, fungi and plants have been found to increase heat tolerance of all 3 species in the relationship by upregulating expression of certain fungal proteins. In this project, we aim to find out the specific roles of proteins, upregulated in fungi and plants, under heat stress, by knocking out certain genes in the fungi or plants to determine the effect on the thermotolerance.

INTRODUCTION

Climate change is slowly becoming the largest threat humanity faces. Rising temperatures lead to more frequent droughts, wildfires, and invasive pest outbreaks, leading to the loss of plant species. This problem motivated us to discover and explore how some organisms show novel characteristics to exhibit extreme heat tolerance and thrive at temperatures as high as 70 degrees. One of its kind, fungal symbiosis has been shown to contribute greatly to plants' ability to survive stressful conditions, even being one of the main reasons plants were able to colonise terrestrial conditions.

METHODOLOGY

Sample preparation for RNA extraction

To determine the differences in gene expression caused by C. protuberata infected with CThTV under heat stress, we will compare the transcriptomes of the host plants. As noted in a previous study [2], there was a difference in the rate of fungal colonisation for dicots and monocots. Hence, we will be using Solanum lycopersicon and a monocot Dichanthelium lanuginosum as host plants.

Extraction of RNA transcripts from plants

We will extract the total RNA from the plants to compare gene expression. In total, there should be 16 RNA samples to analyse since there are 4 factors to vary: type of plant, presence of endophyte, presence of heat-stress, and type of plant tissue. To extract the RNA transcripts from the roots and leaves samples, the samples will be frozen and homogenised, then mixed with Plant RNA Reagent (Life Technologies) to be extracted and purified. [1]

Figure 1 🗆

Panic grass (Dichanthelium lanuginosum) found growing at 46.5°C in Yellowstone National Park. This unusual thermotolerance was further investigated to find the symbiotic endophyte. (Source: Montana State University)



🗆 Figure 2

Images of plants after heat stress conditions, including plants infected with wild-type fungus (Wt), fungus reinfected by virus through anastomosis (An), virus-free fungus (VF) and plants without fungus (NS)

The 1st row is S. lycopersicon and the 2nd row is D. lanuginosum. The bar graph shows the survival rate and health of plants under each treatment. [2]

METHODOLOGY (CONT.)

Subtracted cDNA library construction

In order to identify the function of various RNA transcripts, subtracted cDNA libraries were constructed [4]. A cDNA library is constructed by using reverse transcriptase to convert the RNA transcripts into complementary DNA, and the DNA is inserted into plasmids to be stored as a collection. Subtractive hybridisation allows for comparison between 2 types of RNA, so the library would only contain cDNA corresponding to mRNA expressed in tissue type and not the other. [5]

For each library, the cDNA from a plant sample under heat stress was the "tester" and the cDNA from the corresponding plant sample without heat stress was the "driver", so the resulting subtracted cDNA library will only consist of endophyte-induced expressed sequence tags.

Identification of mRNA function and quantification of expression levels

We will sequence the plasmids in all cDNA libraries. [5] The sequences can then be matched with online databases for DNA sequences using BLASTX, to identify the proteins that the DNA sequences would express.

To specifically quantify the changes in expression of genes, real-time quantitative reverse-transcriptase polymerase chain reaction (qRT-PCR) is conducted on the total RNA for each constructed cDNA library. [5]



Our proposed experiment should be able to quantify the changes in gene expression in endophyte-colonised monocot and dicot host plants under heat stress by comparing the transcriptomes via cDNA libraries. This will provide more insight into this unique 3 way symbiosis and could be applied in studying current food crops. The information learned could be useful for engineering of more heat-resistant crops, which is highly relevant given the trajectory of global warming

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Novel method of identifying tumor status by using hyperpolarized substrates



Group 7 members: Kriti Shahu - Raven Foronda - Abdullah Jaddaa - Mustafin Nazim Group facilitator: Nethmini Nirasha

Abstract

Cancer stays nearly the most actively discussed problem in Life Sciences. The discovery of imaging biomarkers that are early indicators of Cancer stays nearly the most actively discussed problem in Life Sciences. The discovery of imaging biomarkers that are early indicators of long-term treatment response in cancer should improve patient survival and accelerate the development of new drugs. One novel approach is connected with MRI imaging; this method is based on a phenomena of Nuclear Magnetic Resonance (i.e. NMR) which characterized by low sig-nal-to-noise ratio and also only some highly abundant molecules could be visualized in this method such as fatty acids and water (1H NMR-sig-nal). This situation could be improved by using hyperpolarized substrates, it was clear that the development of hyperpolarization techniques offers the possibility of gaining information about the real-time in vivo kinetics of the metabolic transformations. Today different approaches to hyperpolarization were developed. (Dr. Kirill V. Kovtunov et al. 2018).

Introduction

Hydrogenative-PHIP (h-PHIP) results from the addition of hydronyologenativerning (inching) tesuits from the adultion of hydro gen, enriched in the para-isomer, to unsaturated substrates, cata-lyzed by organometallic complexes. Therefore, h-PHIP polarized molecules contain two protons, that derive from the pairwise ad-dition of hydrogen to the unsaturated precursor. (Reineri et al, 2021)

Fig.1 demonstrates how hyperpolarized substrates could be pre-



Tumor cells are known to have different metabolic abnormalities that allow investigators to use it as a marker to distinguish be-tween normal tissues and transformed cells. Cancer cells may retween normal tissues and transformed cells. Cancer cells may re-program their metabolic phenotypes to adapt to microenviron-mental changes and the results of these reprogramming give a selective advantage to cancer cells under the unfavorable envi-ronment. It is typical for most dense tumors to show strong hy-poxic microenvironment that enhances anaerobic oxidation and hibble addition, phenotenation of them is the formation of the second stransformer and the second stransformer and the second stransformer additional second stransformer and the second second stransformer and the second second stransformer and second stransformer and stransformer and second poxic microenvironment that enhances anaerooic oxidation and inhibits oxidative phosphorylation although in the presence of oxygen (Pseudohypoxia), hence increases the production of lac-tate, pyruvate and H+ through glycolysis in a process known as the "Warburg effect". (Chao Wang et al, 2021). In addition, the neighboring normal tissue may influence cancer metabolism. Note that tumours from different tissue origins driven by the same oncogene may have different metabolic patterns in accordance with the time of the persence (Cohecide Octumes et al 02010). with the type of the cancer. (Gabriele Grasmann et al, 2021).

Treatment response has traditionally been assessed by measure ing changes in tumor size; increasingly, functional and molecular information is also being used to assess treatment response as Information is also being used to assess treatment response as these parameters often respond earlier than size measurements alone. For example, uptake of the glucose analog 18F-labeled 2-fluoro-2-deoxy-D-glucose (FDG) can be imaged noninvasively by PET and is now used as a marker of disease progression for some clinical indications. However, not all tumors demonstrate avid PDG uptake; therefore, the development of new biomarkers for de-tecting treatment response is required. We consider that hyperpo-binder development of new to forse the ord is for each of the mean former and the mean of the meant of the meant of the forlarized molecules would be one of the most effective and infor-mative ways to identify a status of the tumor. We also hypothe-sized that due to appearance of a strong difference in microenvi-ronment of tumor cells we can differentiate between tumor and necrotic tissue (Fig.2).



We aim to provide a safe and effective method for new drugs we aim to provide a safe and enective method for new drugs screening and further in diagnosis. It could also be used to ana-lyze the role of the target molecule in tumor metabolism. There-fore, in this study, we selected [1,4 13-C] fumarate as a target biotracer. We also discussed the advantages and disadvantages of this treatment and possible side effects.

Materials and Methods

Hyperpolarized molecules of fumarate were obtained by PHIP Inperioratized indicates of indicate were volume up in method. Reaction was held in organic solvent and after that ex-traction followed into basic solution (NaOHH20); physiological pH was maintained in base solution. fMRI was held to visualize fu-marate and malate distribution across tumor tissue.

Why do we use fumarate?

Other metabolites of Krebs cycle could be used but only fumarate Other metabolites of Krebs cycle could be used but only tumarate has shown selective accumulation and is easily can be hyperpo-larized by both d-DNP and PHIP method. Using catalyst, the acety-lene dicarboxylate precursor readily forms maleate, i.e., the cis-isomer of the butaneticia caid. Since maleate is a toxic com-pound, in the context of PHIP applications, only complete hydro-constitue to venciente I had to a useful acetybeling (Diela pt al genation to succinate leads to a useful metabolite (Ripka et al, 2018).

Fumarate (trans-butenedioic acid) is a metabolite that cells conrulnarate (trans-outeneous) actu) is a metabolice that Cells Col-vert into malate or succinate. The use of PHIP hyperpolarized fu-marate to report on fumarase activity was the subject of intense scrutiny. That enzyme is responsible for the interconversion of fu-marate and malate and is localized exclusively within the cells cytoplasm and mitochondria. Fumarate enters the cells through the

topiasm and mitochondria. Fumarate enters the cells through the sodium dependent dicarboxylate acid transporters and the fuma-rate-malate metabolic transformation is observed. It was shown, recently, that fumarate can be obtained from the pairwise hydrogenation of an acetylene dicarboxylate (ADC) pre-cursor in water, using a ruthenium-based catalyst [RuCpr(McCN)3]PF5] to achieve the necessary trans-hydrogen-tice right for the residence of the fully budy another dependence of the ruther formation of the fully budy another dependence of the ruther formation of the fully budy another dependence tion, with a minor formation of the fully hydrogenated succinate product (Guthertz et al. 2018).

ad [1.13C] to vield [1-13C]

Source or para-hydrogen

A mixture or 50:50 mixture of ortho- and parahydrogen can be made in the laboratory by passing it over an iron(III) oxide catalyst at liquid nitrogen temperature 77 K or by storing hydrogen at 77 K for 2–3 hours in the presence of activated charcoal. In the ab-sence of a catalyst, gas phase parahydrogen takes days to relax to normal hydrogen at room temperature while it takes hours to do so in organic solvents. Other optimization techniques are being developed now.

Malic acid accumulation

Malic acid accumulated in a region of necrosis due to emitted fu-marase enzyme from damaged cells' mitochondrion. This infor-mation is approved and highly supported by Fig.4 and Fig.5. (Gal-lagher et al. 2009).



Fig.4 13C spectra acquired over a period of 1 min after injection of hyperpolarized [1,4-13C2]/umarate into suspensions of intact murine lymphoma cells (-5 107 cells) or lysed cells; these are representative spectra from the data shown in Fig. 2. For clarity, only every third spectrum is shown and each series has been scaled to th maximum fumarate signal. (A) Untreated cells: (B) Cells 16 h after reposide treat-nett. (C) lysed cells: The structured signal from the hyperpolarized [1,4-12C]/timar rate is at 175.4 ppm, the signal from [1-13C]malate at =181.8 ppm, and the signal from [4-13C]malate at =180.6 ppm.



Fig.5 Representative transverse images from untreated (A) and etoposide-treated (mice with s.c.-implanted lymphoma tumors. The 1H image shows the anatomical lo cation of the tumor, outlined in white. Adjacent to this are false-color CSIs superimposed on the 1H image, which demonstrate the spatial distribution of the total hyper-polarized 13C malate and 13C fumarate signals. The color scale indicates the relative polarizer i oci malare ani o contanzate signalar. Inte constante interactes and relativ signal intensity compared with the maximum intensity in each image. To reduce the effects of noise, voxels with signal intensities ±20% of the maximum signal intensity were removed from the image. Although the images have been scaled to their re-spective maxima, the maximum malate signal intensity in each experiment is = ective maxima, the maximum malate si —25% of the maximum fumarate signal

Conclusion

Hyperpolarized substrates represent a convenient and non-inva-sive method of receiving an information of tumor status and a perspective method that could be applied in screening of new drugs. This novel method allows to investigate tumor response in a subtler way than most others. Finally, we admit that this new tool has its own disadvantages.

· Pros

High resolution of this method is demonstrated due to about 10-fold signal amplification.
 Absolutley non-invasive, all the molecules used are isotopic an-alogues or even demonstrate no differences between biomole-cules except spin indicating about 100% biocompatibility.
 Great variety of applied substrates.
 Importantly, this technique does not involve ionizing radiation and exploits endogenous molecules, some of which are already appeared into humans.

· Cons

Short longevity of applied substrates.
 Need to use minor-isotopic-enriched reagents in synthesis of biomolecules or drugs precursors.

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Abstract

Preventing the metastasis is important in order to ncrease the life expectancy of breast cancer patients. Silencing the SNAP25 protein, one of the SNARE proteins, would inhibit migration of extracellular proteins and membrane fusion. Translation of SNAP25 could be inhibited by injecting double stranded RNA with the same sequence as mRNA transcript for SNAP25.

Introduction

Breast cancer is cancer that develops from breast issues and it is the most common cancer amona women in most countries. An estimated 2.3 million females were diagnosed with breast cancer in 2020, accounting for approximately 24.5% of all cancer cases worldwide. In stage IV breast cancer, also known as metastatic breast cancer, the cancer is spread to the other organs in the body including the lungs, liver, brain, and most commonly bone. Unless controlled, it is highly likely to cause severe complications and finally lead to death. The study explores controlling cell migration that is crucial in metastasis by silencina integrins through RNA interference (RNAi), which has presented high degrees of efficiency and specificity; hence, metastasis can be prevented, increasing the life expectancy of the patients.

Methodology

Integrin count at the cell membrane is reduced by injecting siRNA, that has the same nucleotide sequence as an mRNA of SNAP25 protein. Cells would recognize it as a viral RNA and, therefore, start inhibiting mRNA with exact same quence, leading to reduced concentration of the protein. SNAP25 is crucial for cell migration, since it is one of the SNARE proteins and plays a huge role in membrane fusion (Fig. 4).

Membrane fusion is essential for Cancer metastasis. ilencing or inhibiting any of the SNARE proteins would disrupt four-helix bundle formation (Fig.4) and membrane fusion would no longer occur, therefore, because of the ssential integrins no longer being present at the cell front, novement of the tumor cells decrease, significantly educing the Metastasis of the cancer.

Why SNAP25?

While there were variety of proteins to choose from we lecided on SNAP25 and here is why: Even though, delivery method of the siRNA is a tissue specific injection and, therefore, chances of it spreading in blood and even bypassing the liver unharmed are low, it is imperative to nsure, that non-cancerous cells would not be harmed by this method, especially when patient already has immunodeficiency caused by other treatments, like immunodeficiency caused by other treatments, like chemotherapy. NCBI has tested and published the concentration of SNARE proteins in different tissues of healthy patients[7]. While others are somewhat equally distributed, SNAP25 is mainly only found in Brain (RPKM 400-500) and only insignificant amounts of it are present in other organs (RPKM = 1-3), meanwhile SNAP25 is one of the most recognized overproduced proteins in breast cance along with VAMP3, VAMP4, SNAP23, SYNTAXINI, etc. [4]. [8]. Accordingly, siRNA will disrupt membrane fusion breast cancer cells, but won't be harmful to others, in case it omehow gets in.

Silencing with siRNA

In general, there are a several ways of silencing, inhibiting proteins, such as injecting antibodies. However, the study utilized siRNA for couple of reasons:

1) Different kinds of cancer use Different kinds of SNARE proteins and developing or finding antibodies for each is ore difficult, than identifying the nucleotide sequence of mRNA already found in the cell, making this method applicable to wider range of diseases;

2) Stopping the translation of the protein, rather than inhibiting it after its production is better in terms of limiting the energy usage, especially in tumor cells, in which ATP production is a problem on its own, since it fully relies on glycolysis and lactic acid fermentation, even in aerobic onditions.

Silencing with siRNA is a well researched method which exploits cell defense against viruses. Upon entering the cell the siRNA is cleaved by dicer (an enzyme that cleaves RNA) and loaded onto Ago-2 Argonaute. The protein-RNA complex would bind to the mRNA transcripts for the SNAP 25 protein, inhibiting the translation (Fig. 5).

Preventing Breast Cancer **Metastasis by Silencing** the SNAP25 Protein

Objectives

- Introducing a successful method to prevent breast cancer metastasis via RNA interference
- Choosing the breast cancer specific SNARE protein Constructing siRNA with already known nucleotide sequence of mRNA of SNAP25 protein.
- Transferring siRNA using tissue specific injection, to avoid spreading it in blood.
- Silencing SNARE protein with siRNA and as a result, disrupting membrane fusion.
- Reducing membrane fusion to inhibit cell migration and stop breast cancer metastasis.







Fig. 4 : Four helix bundle formation. roteins: Blue - VAMP, Red - Syntaxin, White(x2) - SNAPs



The production of siRNA

siRNA would be produced in vitro. The cDNA transcript for the SNAP25 protein (Fig.2) would be ligated into vector for bacteriophage $\phi 6$ and put into bacteria which would produce the two strands separately and the transcripts would later on join.

Delivery

siRNA would be conjugated to a VEGFR antibody and vould be injected into the cancerous tissue.

 VEGR is a vascular endothelial growth factor receptor. (Fig. 1)

Upon lignand binding it would be endocytosed into the cell and the resulting vesiclee would be degraded. The siRNA would be realesed into the cytosol

Discussion

To prove that our idea was reasonable and somewhat ossible we searched for experiments regarding these topics. We were able to find an article named: "Silencing of VAMP3 inhibits cell migration and integrin-mediated adhesion"[3], in which they talk about silencing VAMP3 protein of pancreatic cancer cells in Vitro using siRNA to slow down Membrane fusion and, therefore, disrupt the regulation of B1 integrin on cell surface. Experiment was a huge success, here is a small excerpt: "Indeed, silencing of VAMP3 effectively reduced the amount of B1 at the cell surface. In contrast, immunoblotting analysis showed that the levels of total cellular B1 were not altered in the VAMP3 knockdown cells. The reduction of cell surface B1 but not total cellular B1 suggested, that VAMP3 knockdown disrupted the trafficking of BI integrin to the plasma membrane. The decreased motility of VAMP3 knockdown cells probably resulted from reduced delivery of B1 integrin to the cell surface."

Conclusion

In conclusion, we think, that silencing the SNAP25 is an option to stop breast cancer metastasis without harming other cells and could be used along with other treatments. Tissue specificity of SNAP25 (almost only present in brain) gives us the safe protein to target and it being overproduced during breast cancer makes it effective against tumor cells. Stopping metastasis would prevent a disease from spreading into other organs and will significantly increase the life expectancy of stage IV cancer patients. We decided to inhibit the production of SNAP25 to specifically target the most common cancer mong women, but methodology of the treatment could be used against other illnesses after slight alterations. For any chosen protein, nucleotide sequence of the siRNA can be gathered from mRNA already found in the cell. Selection of receptors on the membrane of the tumor cell should also be taken into consideration.

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MESENCHYMAL STEM CELL-DERIVED EXOSOMES THERAPEUTIC ROLE IN DIABETIC CARDIOMYOPATHY

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Jagienka Madrzak

Diabetes is a health condition that affects sugar levels in your blood, thus causing numerous problems in the cardiovascular system. Exosomes are showing promise as a method of treating those problems. Our project intends to study their effectiveness using mice. We will isolate exosomes produced by mesenchymal stem cells using the most effective method developed, however more effective ones will no doubt be developed in the future. Future research would need to be done to evaluate applicability of our results to humans and the exact contents of those exosomes.

- Define exosomes including mesenchymal stem cell-derived exosomes and their function.
- Explain how MSC-derived exosomes can be isolated, stored and preserved.
- bemonstrate how exosomes can be used in diabetic cardiomyopathy treatment.
 Assess methods/mechanisms involved in the treatment of diabetic cardiomyopathy.
 Discuss how further research can be applied to improve the end of measures of measures.
- the use of exosomes in treating cardiovascular complications of diabetes.

All cells, prokaryotes and eukaryotes, release extracellular vesicles (EVs) as part of their normal physiology and during acquired abnormalities. Exosomes are EVs with a size range of ~40 to 160 nm in diameter with an endosomal origin. -40 to 160 nm in diameter with an endosomal origin. Depending on the cell of origin, exosomes can contain many constituents of a cell, such as a fluid lipid bilayer, surface proteins/receptors, mRNAs, microRNA (miRNA), specific set of proteins, transcription factors, and other substances ., Interestingly, exosomes released into the circulation and bodily fluids are the major mediators of cell-cell communications, which are involved in the regulation of various biological processes of their target cells via regulation of certain gene expressions. of certain gene expressions

Mesenchymal stem cells (MSCs) constitute a heterogeneous subset of stromal regenerative cells and could be harvested aesily from several types of adult tissues. MSCs are considered a promising therapy tool in cardiovascular diseases (CVDs) as numerous preclinical studies of ischemic and nonischemic cardiomyopathy employing MSC-based therapy have demonstrated that the properties of reducing fibrosis, stimulating angiogenesis, and cardiomyogenesis have led to stimulating angiogenesis, and cardiomyogenesis have led to improvements in the structure and function of remodeled ventricles. However the low engraftment, immune rejection and tumorigenic potential limit the clinical application of stem cell transplantation therapy. Increasing evidence suggested that exosomes generated from stem cells exerted similarly protective and reparative properties with cellular counterparts of stem cell transplantation in repairing therapice. therapies.

Heart failure occurring in patients with diabetes and without hypertension and coronary artery disease, also referred to as diabetic cardiomyopathy, is a common complication of diabetes. Numerous mediators/factors (e.g., oxidative stress, cardiac inflammation, insufficient myocardial angiogenesis, lipid accumulation, cardiac fibrosis, and cell death) have been identified as its contributors. In our study we want to investigate the potential therapeutic effects of MSC-derived exosomes in preventing diabetic cardiomyopathy in STZinduced diabetes mice model. Refer to Figure 1.

Diabetes is a chronic condition that is always affecting a noticeable chunk of the world population. The importance of this research lies in providing a new way to mitigate the effects this condition has on the cardiovascular system. Exosome based therapy has the potential to provide the same therapeutic effects of cell-based therapy without some of its immunological and tumorigenic complications. However, one major barrier to the usage of exosome therapy will certainly be the production and isolation of said exosomes. The exact mechanism involved in the therapeutic effects of MSC-derived exosomes is beyond the scope of this project and can be explored by future research. The most beneficial cell culture environment for the production of the most effective exosomes by MSCs is also yet to be revealed. Perhaps co-culturing of MSCs with cardiomyocytes is one of the most promising approaches that will culturing of MSCs with cardiomyocytes is one of the most promising approaches that will improve the efficacy of exosomes. There are different methods of exosome isolation, each improve the efficacy of exosomes. There are different methods of exosome isolation, each with its own strengths and weaknesses, therefore we chose the one that fits our needs best. The field of exosome isolation has made remarkable progress in past years so it is safe to say that this will become less of a problem in the future, whether by invention of completely new methods of isolation or combination of already known ones. Our research proposal contains certain limitations. One of which is our usage of size-based isolation methods for exosomes. Due to heterogeneity of exosomes no existing isolation method yields a perfect solution and there are bound to be certain contaminants within the solution. Similarly, we can't differentiate between different types of exosomes, so our MSC- derived exosomes could be contaminated by other types of exosomes.

The required mesenchymal stem cells (MSCs) can be isolated from the bone marrow and inoculated into the hollow fiber bioreactor for 3D culture. Instead of preparing the culture in 2D flasks, using the 3D has increased exosome production and more effectiveness. Exosomes are heterogeneous in since

xosomes are heterogeneous in size, content, function and source9 making isolation difficult. Size-exclusion chromatography (SEC) has been described as the best method for separating exosomes from most proteins, simultaneously recovering morphologically and functionally intact exosomes from plasma10 plasma10.



Size-exclusion Chromatography by Boïng and colleagues 12

To expand and improve our methods of treatment for diabetes-induced cardiac treatment for diabetes-induced cardiac complications we are proposing a study on the effectiveness of MSC-derived exosomes in treating and mitigating diabetic cardiomyopathy. We intend to use mice for our research because of their biological similarity to us and ease of use in laboratories. The effect a treatment has on mice is often predictive of the effect it will have on humans, but not always. To see whether our results are applicable, future research would need to explore the response of the human body to MCS- derived exosomes. If that research confirms their effectiveness on humans we will have another powerful tool in combating cardiovascular consequences of diabetes worldwide.

Exosomal preparations from SEC methodology have low levels of contaminants and co-precipitates, leading to a relatively homogenous final exosome isolation.

Urban Bauk

The exosomes investigated in the study can be acquired by SEC by performing as described by Boing and colleagues. Succinctly, we can stack 12 mL of Sepharose CL-2B (Sigma Aldrich, St. Louis, MO, USA) in a 20-mL syringe (BD PlasticpakcTM, San Jose, CA) and we can wash and equilibrate with PBS (Oxoid). Then, we load two mL of plasma onto the column and start fraction collection (0.5 mL per fraction and a total of 20 fractions were collected) immediately using PBS as an elution buffer. To investigate diabetic cardiomyopathy, we will use

the STZ-Induced Diabetic Model. Mice (6-8 weeks old, FVB/N) will be prepared to induce type 1 diabetes in a mouse model by daily intraperitoneal injection of STZ (Sigma-Aldrich) at a dose of 50 µg/g dissolved in a citrate buffer (0.1 mol/L Na citrate, pH 4.5) for 5 days.

Throughout the 3 month study period, starting from 9 days after the last STZ injection, doses of 40 µg of MSC-derived exosomes will be administered to mice via intravenous injection at 7 day intervals, and the control group will be injected with an exosome-free buffer, following the same administration pattern.

After 3 months we will perform M-mode echocardiography to measure cardiac contractile parameters in vivo. Next we will measure the isolated heart function using the Langendorff perfusion apparatus to investigate rates of contraction and relaxation. Given that chronic hyperglycemia can result in adverse cardiac remodeling such as cardiomyocyte hypertrophy, apoptosis, fibrosis, and reductions in microvessel densities, which contribute to ventricular dysfunction, we will perform histological analysis of mice subjected to exosomal injections and the control group. We will measure the extent of myocardial apoptosis, fibrosis (using collagen I/III levels as markers), cardiomyocytes size and the number of microvessels. Refer to Figure 2.

EXPECTED RESULTS

A recent study showed that administration of MSCderived exosomes in an I/R mouse model increased the ATP level, reduced oxidative stress, and improved cardiomyocyte survival. This indicates that the intravenous transplantation of MSC-derived exosomes might have an anti-apoptotic effect on cardiomyocytes in STZ-treated mice through a miRNA-mediated mechanism. It is believed that they should also replicate the pro-angiogenic effect of their parent cells, as well as act as anti-fibrotic factors thanks to miRNA that regulates the deposition of extracellular matrix proteins. We expect the collected data will indicate that MSC-derived exosomes could prevent diabetes-caused cardiac injury (i.e., hypertrophy, apoptosis, fibrosis, and microvascular rarefaction) in STZ-treated mice model, thereby improving myocardial contractile function in comparison with the control group.

References:



CONTROLLED EXPRESSION of telomerase

BY: MILA DIMITROVSKA, ADNAN RIHAWI, YERASSYL TEMIRBEKOV, KARTHIK PRAVIN RAMANCHANDRAN

Facilitator : Farrel Alfaza

TELOMEROPATHY OR TELOMERE BIOLOGY DISORDER (TBD)

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There are two types of telomeropathies: secondary and primary. • Primary telomeropathies involve mutations in main telomero-maintenance genes. • Secondary telomeropathies usually involve mutations and defects in DNA repair machinery. DNA damage in the region of telomerases is not repaired correctly and they may become shorter.

TELOMERE-MAINTENANCE AGENTS:

- TRF1 and TRF2 recognize duplex TTAGGG repeats
 POT1 recognizes single stranded TTAGGG revertangs
 TIN2, TPP1, and RAP1 Interconnet shelterin proteins
 Talomeric repeat-containing RNA (TERRA) telomerase regulation
 Telomeriase: Telomerase reverse transcriptase (TERT) and telomerase RNA component
 Poly(A)-specific ribonuclease (PARN)
 Regulator of telomere elongation helicase 1 (RTEL1)
 Telomerase Caljal body protein 1 (TCAB1)

Mutations in any of these components lead to shortened telomeres (accelerated shortening), or short telomeres can be inherited.

SYMPTOMS:

Skin cancer

- Cytopenia BMF MDS/AML No immune response Glaucome/cataract Liver cirrhosis Avascular necrosis • Oste porosis
- Current TBD treatments are aimed to reduce symptoms and increase life quality of patient, but ultimately all of them are not dealing with main problem short telomeres.
- If telemerase itself is not affected by mutation and TBD is caused by another telemere-maintenance proteins mutation, it can be possible to maintain normal telemere length by increasing the expression levels of telemerase.
- Constitutively high expression levels of telomerase gene can be also dangerous to the organisms since short telomeres play role in cancer prevention and long telomeres are usually associated with high cancer risk.

In order to avoid this kind of complications in the treatment we propose drug-controlled enhancer+insulator system that can be inserted upstream the telomerase gene (TERT and TERC). TERC is trascribed by RNA pol 2 and has its own promoter region (unike other ncRNAs).

METHOD: CONTROLLED SILENCER

Synthetic Topological Insulator with TetO for Chromatin-engineering (STITCH) - is a DNA region that can inhibit interaction of gene and its enhancer when inserted between them. Main part of insulator model was taken from mouse Tfap2c-Bmp7 locus with following



Where TZ separates actions of two enhancers: forebrain and heart. TZ itself consists of directed CTCF-binding sites (CTCF - CCCTC-binding factor - zinc finger protein).

This silencer shows decrease in expression when inserted between human promotor and enhancers, showed on the example of MYC gene.

mm

In order to make it drug-controlled tetO with tetR-KRAB systems was used, tetO is tetracycline operator inserted in silencer region, tetR binds to it when tetracycline (or its analogs like doxycycline - DOX), tetR-KRAB is fused gene.

KRAB is able to induce heterochromatin formation around tetO and turn silencer off -increasing expression of controlled gene. Overall expression is sensitive to tetracycline or doxycyline.



tetR-KRAB was inserted via piggyBac transposon.

We can inself strong enhancer - CMV - human cytomegalovirus enhancer - natural mammalian promoter with high transcriptional activity. Boshart M, Weber F, Jahn G, Dorsch-Ha. sler K, Fleckenstein B, Schaffner W. 1985. A very strong enhancer is located upstream of an immediate early gene of human cytomegalovirus. Cell 41:521–530. DOI: https://doi.org/10.1016/S0092-8674(85)80025-8, PMID: 2985280

Resulting structure:





Therapy for Lactose Intolerance By CRISPR/dCas9-mediated Epigenome Editing

Group 11 Owen Ong Yakov Korobitsyn Harshan, Arulmoli Alikhan Zhumagaleyev Facilitator: Lilit Grigoryan

Abstract

Lactose intolerance occurs in two-thirds of adult humans and can cause bloating, diarrhoea and abdominal cramps due to an inability to digest lactose. It is characterised by a fall in expression of lactase-phlorizin hydrolase (LPH), an enzyme that breaks down lactose, after weaning in infants. The primary treatment for lactose intolerance involves lactase pills before meals, which are not always accessible or affordable. Studies suggest that age-based methylation of the LCT gene (encoding for LPH) may be responsible for the fall in LPH production [1]. DNA methylation at CpG sites is known to decrease expression of genes by preventing binding of transcription factors and thus expression of genes.

Objective: We propose the use of CRISPR/dCas9-mediated demethylation of LCT to restore their expression, allowing for LPH production in adults and increased tolerance to lactose.

Introduction

CRISPR/dCas9 Demethylation

Normally, Cas9 acts as an endonuclease and creates double-stranded breaks in DNA. Cas9 selects its targets by binding to a guide RNA (gRNA) complementary to a segment of genomic DNA upstream of a PAM sequence (NGG). The CRISPR/dCas9 system uses a mutated form of Cas9 that is unable to cleave DNA but can still bind to its gRNA target.



Fig. 1 Multiple TET1 domains are directed to the appropriate gene by dCas9, resulting in demethylation [2].

dCas9 is then fused to the SunTag system, which acts as a scaffold to attach several demethylation domains from the TET1 protein. Thus, the dCas9 system (as described in [2]) is able to target a specific region of DNA and perform localised demethylation using the TET1 domains.



Using the methylation data from [1], we can apply available programs like ChopChop [3] to design suitable gRNAs. Factors to consider include proximity to the methulation site and off-target binding.



Fig. 2 gRNA for intron 2 of LCT gene will be used for targeted demethylation

Which cells do we target?

Methodology - Experimental Design

Mouse model of adult-onset lactose intolerance

Mice, like other mammals, display lactose intolerance as adults. A comparison of

epigenetic markers between C57BL/6NCrl mice and humans found that both had

age-based increases in methylation at intron 2 of LCT [1]. LCT intron 2 is



LPH is normally produced by enterocytes in the brush border of the intestine, which have a very short turnover time. Epigenetic modification of these short-lived cells would hence be unlikely to have a lasting impact on LPH production. Instead, we target long-lived intestinal cells like those in the lamina propria, where upregulation of LPH production can have a lasting impact [3].

Fig. 3 Lamia propria cells expressing lactase with long term effects [4].

Preventing remethylation by Dnmt proteins

LCT could be remethylated by Dnmt proteins (similar to [5]), which maintain DNA methylation patterns. Hence, long-term expression of our CRISPR/dCas9 system is needed to maintain the unmethylated status of LCT. We thus introduce our system to the target cells in the form of a plasmid, which has a constitutive promoter for the gRNA and CRISPR/dCas9 system as well as a matrix-associated region that allows for long-term retention of the plasmid and expression of the dCas9 system.

Adeno-associated Viruses

Adeno-associated viruses (AAV) are attractive vectors for gene transfer because they lack viral genes, do not replicate after delivering their payload and can transduce most cells [6]. We selected type 2 AAVs as they were shown to be the most effective at delivering genes to intestinal cells. [7] AAVs can be produced using the 'triple transfection' technique, where the desired plasmid is inserted into an AAV along with two other plasmids that allow for independent replication. The viruses are replicated in HEK293 cells and extracted for use. [8]



Conclusion

In conclusion, our experiment assesses the viability of epigenetic modification as a gene therapy for lactose intolerance in mouse models. Given that our gRNA targets a well-conserved region between mice and humans, this method can easily be adapted for human use, offering a long-term solution to lactose intolerance

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Design of a Low-Cost Point-of-Care Test Kit for COVID-19 Cytokine Storm Susceptibility

Topic: Biomedicine Group 12: Koo Min Seo Kim Joo Chan Chioma Blessing Obidigbo

Group facilitator: Robert Yeghikyan

Abstract

Since the outbreak of the SARS-CoV-2 virus in December 2019 from Wuhan, China, it has since become a global health threat whose pathological effects are still being explored. Infection in COVID-19 patients has been linked to "cytokine storms", an event whereby the overstimulated immune system results in excessive production of pro-inflammatory cytokines. This can lead to damaging effects such as acute respiratory distress syndrome (ARDS), which results in high mortality. In our project, we propose the design of an affordable and accurate test kit using an SNP-LAMP assay to detect COVID-19 cytokine susceptibility to pre-empt the onset of cytokine storms by seeking immediate medical attention upon infection.

Introduction

Cytokine storms are a physiological reaction in which the innate immune system causes an uncontrolled and excessive release of pro-inflammatory signaling molecules called cytokines. The rate of mortality from cytokine storms is high, making up a large proportion of 6.34 million COVID-19 deaths to date. During the outbreak of SARS-CoV-1 and MERS-CoV, cytokine storms were identified as a key cause for lung and organ failure.

The provision of point-of-care test kits that can be used by untrained individuals would encourage timely administration of medical treatment and can act as a breakthrough in reducing mortality and improving medical response.

Genetic background of cytokine storm susceptibility

Although the mechanism leading to cytokine storm remains unknown, considering the interferon signaling pathway, variants in cytokine genes such as IL1B, IL1R1, IL1RN, IL6, IL17A, FCGR2A, and TNF could be related to cytokine storms.



Objectives

To design a safe, affordable

and accessible point-of-care

Methods Design Principles

- Individuals' COVID-19 cytokine storm susceptibility relies heavily on several SNP variations. The Test Kit is designed to detect six (or more) of the most relevant SNPs so that individuals can predict their COVID-19 Susceptibility at home.
- The epithelial cells of the mouth are removed with a swab and placed in a liquid bottle (tube) to extract DNA. After extraction, DNA is added to the reaction solution by dropping one drop of the DNA solution into each tube.
- When the reaction mixture is put in hot water, DNA amplification occurs, and the possibility of cytokine storms can be predicted depending on the number of tubes in which fluorescence is observed after the reaction is completed.





A NOVEL PROPOSAL FOR INDUCING CONTROLLABLE MAGNETOTACTIC MOVEMENT IN THE CILIATE T. THERMOPHILA

Authors: M. G. ĶĒNIŅŠ, P. ŠAUČIUVIENAS, R. RAHMAN, ȘT. DUMITRESCU Keywords: Bioinformatics, Computer Vision, Magnetosomes, Gene Manipulation, Magnetothermia

ABSTRACT

We propose a method for the control of movement using magnetic fields by inserting the Maanetospirillum magnetosome gene island (MAI) into the ciliate Tetrahymena thermophila, utilizing both bioinformatics techniques and proposing methodology. A novel algorithm was developed: palindrome identification from an amino acid sequence; in addition, DNA alignment software was used extensively in writing the proposal. These experiments shall serve as proof of principle and identify possible problems and requirements for this to be carried out on leukocytes, which could be utilized in cancer therapy, as is discussed.

INTRODUCTION & OBJECTIVES

Magnetosomes are unique intracellular structures found in magnetotactic bacteria (MTB) that consists of inorganic ferromagnetic crystal: magnetite (Fe₃O₄) or greigite (Fe₃S₄), surrounded by a proteinbased membrane with special structures (1, 2, 4).

Typically, magnetosomes are linked in short chains - oligomagnetosomes or in longer ones - polimagnetosomes (4). Magnetosome membrane proteins act as mechanoreceptors (3) that detect small movements of internal inorganic crystals, caused by small variations in external magnetic field. Magnetosomes may be involved in bacterial movement - directly, if a polimagnetosome acts as an internal chord that directs the displacement (3), or indirectly, if the process serves as a promoter for a signaling pathway that causes the flagellum's rotation, and, therefore, oriented movement (3, 5).

Observations show that the magnetosomes' activity is positively correlated with pH, sodium or potassium ion concentrations and with the modulus of exterior magnetic induction, since it acts as a natural ferromagnet (2). Usually, in the Northern Hemisphere, free MTBs deviate towards the north magnetic pole and to the south in Southern Hemisphere, meaning that the magnetosome's internal magnet's polarity is determined by the ecological conditions, rather than by genetic predeterminism (2).

Spirillum is the most common bacterial morphology for MTBs, however some MTBs (individual or colonial) are organized as cocci or bacilli (1). One of the most researched clades of MTBs in articles is the genus Magnetospirillum (1), but there are also magnetotactic bacteria in Phylum Desulfobacterota.

The ciliate Tetrahymena Thermophila in the phylum Ciliophora displays nuclear dimorphism, containing both a diploid micronucleus (MIC) and a highly polyploid macronucleus (MAC) (6). Sexual reproduction occurs by conjugation and recombination of DNA from the MICs, leaving just one diploid set of DNA in the MIC, from which the MAC is then created (7, 8). In addition, the chromosomes are fragmented at specific sites containing a highly conserved element called the chromosome breakage sequence forming chromosomes with telomeres near the breakage site; this occurs only during MAC differentiation and not during vegetative growth (9, 10).



METHODS & THOUGHT EXPERIMENTS

Magnetonastic movements are unoriented movements in a medium with magnetic activity. Cells with magnetosomes move rapidly, since common MTBs may swim twice as fast as rapid swimmers like E. coli (1).

Take a control group from a population of the eukaryotic organisms of interest (T. thermophila), and split them into two equal groups (A) and (B), placed in different culture media. Expose group (A) to a magnetic field and group (B) to a medium with crystals of NaCl. Groups (C) and (D) correspond to (A) and (B), but they contain transgenic eukaryotes. Keep the four cultures in identical temperature and pressure conditions and after 30 minutes of activity, evaluate temperature differences (16).

We expect groups C and D should result in statistically significant higher temperatures, since higher magnetotactic activity correlates with molecular movement rate, resulting in higher final temperature. Also, a valid test should express a higher temperature in culture (C) than (D), since magnetosomes react better to ferromagnetic than diamagnetic stimulation. A test that exhibits all these conditions would be considered positive. otherwise, it is considered negative.

We propose to utilize Machine Learning algorithms (AI) that deal with mage recognition to be able to analyze the synchronicity of movement as showcased in Figure 2 (17).



In addition, for the task of finding suitable restriction enzymes, we developed software to identify restriction enzymes whose sites may appear in an exon due to silent mutations; it may be accessed here: https://github.com/Sauciu1/Silent mutation enzyme failure preven tion. Should there be silent mutations, it may be necessary to re-sequence the genetic code, as it results in digestion of the insert sequence.

DISSCUTIONS & CONCLUSION

Magnetosomes have potential in diverse applications, such as, immunomagnetic separation, targeted drug delivery, enzyme immobilization, bioremediation and magnetic hyperthermia among many others (18). However, several limitations restrict applicability of the study and its possible implications.

Most MTBs require a hard to maintain anaerobic or microaerophilic environment for optimal yield (19, 20). As a growth medium, though chocolate blood agar may appear to contain suitable substrate, i.e. heme iron, it is not commonly used.

A major limitation is that M. gryphiswaldense possesses three distinct stop codons (TAG, TAA, and TGA), while T. thermophila employs only the TGA codon, consequently, depending on mRNA fragments transcription, their translation could result in non-functional proteins, failing to form functional magnetosomes (21).

By using this experiment as a model and studying how the gene expression and biosynthesis of the magnetosome may be maintained in this ciliate, we can approach the integration of the magnetosome genes into more complex eukaryotes, such as mice and humans. We can look at the possibility of magnetosome integration in certain leukocytes that normally respond to cancer cells, e.g., the natural killer or natural killer T cells, to enhance their cancer targeting and attacking abilities through specific magnetic hyperthermia (22).

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TUMOR SUPPRESSION THROUGH REGULATION OF THE BCL-3 PATHWAY

Topic: Molecular and Cell Biology, Team: 14

Fayyad Ahmmed (Bangladesh), Nguyen Do (Vietnam), Joo Hyun Hahm (South Korea), Nadav Qvit (Israel), Lilit Grigoryan (Mentor, Armenia)

Abstract

B-Cell Lymphoma 3 (BCL-3) is a protein involved in a pathway that regulates Nuclear Factor Kappa-B (NF-κB), a transcription factor that is prevalent in cell proliferation regulation. Misregulation of BCL-3 has been found to cause a variety of cancers, including several lymphomas as well as solid tumors. It was found that BCL-3 is regulated by phosphorylation and ubiquitination. Pre-clinical experimental approaches, such as regulation of BCL-3 phosphorylation through kinase expression control are suggested to have potentials as novel cancer treatment.

Objective

The aim of the project is to repress tumor growth through regulation of the BCL-3 pathway, specifically targeted on the phosphorylation of BCL-3.

Cell Proliferation and Cancer

Cancer is a condition in which cells in the body grow and reproduce uncontrollably. It damages surrounding healthy tissue and often spreads to other parts of the body. Cancer claimed nearly 10 million lives in 2020, approximately 1 in 6 deaths worldwide. Misregulation of cell proliferation is reported to result in cancer development.

BCL-3 NF-κB Gene Regulation Pathway

BCL-3 acts as a regulator of NF-κB by forming a transcription factor complex [1]. Major pathways are (Figure 1):

 A) Stabilization of repressive NF-κB p50 homodimers through inhibition of ubiquitination.

B) Removal of repressive NF-κB p50 homodimers situated on DNA, allowing NF-κB heterodimers (p65/p50) to activate transcription.

C) Direct activation of NF-κB target gene transcription through p50 homodimers association.



Figure 1: BCL-3 pathways

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Methods

Phosphorylation of BCL-3 is controlled through several approaches.

Inducing phosphorylation

Overexpression of GSK3 is expected to phosphorylate BCL-3 on sites S394 and S398, resulting in the protein's degradation.

Inhibiting phosphorylation

Inhibition of key kinases such as, Akt, ERK2, and IKK which are necessary for BCL-3 phosphorylation, is expected to reduce BCL-3 activation, hindering cancer growth as a result.

In addition, another possible approach to inhibit phosphorylation is through the let-7 family of miRNA which regulates the Akt pathway [7].

Analyzing the effects

The level of phosphorylation and ubiquitination are examined to inspect the effectiveness of the methods listed above. The analyzations are performed through *in vitro* protein assay such as western blotting and deubiquitination assay [3, 4]. Tumor cell culture and examination *in vitro* is also necessary to observe a shift in cell growth.



Phorehonulation Site

Figure 2: Modifications of BCL-3





Results

Palmer, *et al* demonstrated that BCL-3 is one of the major regulators of NF- κ B [5]. Liu, *et al* showed that BCL-3 activates NF- κ B by forming a complex with a p50 homodimer.

 $NF-\kappa B$ is a transcription factor for genes involved in cell proliferation and cell death, and it was found to be extensively involved in cancer development and progression [6].

Application

Shown are possible future applications:

<u>Basic Research</u>

Elucidating further how modifications of BCL-3, NF- κ B and related proteins can affect cancer. Research into regulating those modifications would lead to revealing unknown BCL-3 mechanisms.

<u>Therapeutic</u>

Identifying molecules that inhibit phosphorylation of BCL-3 with high specificity, as well as developing a molecule to obstruct the creation of BCL-3 - p50 homodimer complexes, should suppress tumor growth.

Discussion

The BCL-3 - NF- κ B pathway is a critical and promising candidate as a target for developing novel treatments for various cancers.

Herein, we have demonstrated that regulating NF-KB activity by BCL-3 phosphorylation is a promising approach to control cancer.

Analyzing the role of other processes within the cell and how they are affected by the modification can further reveal its role in cell function.

Further research regarding possible sideeffects and the processes involved in the role of these modifications would make the process more efficient and may eventually result in an effective treatment for cancer.



Applying Autophagy as a treatment for Huntington's disease



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Facilitator: Jerry Tzang

1-5 0.5-1.0 0.1-0.5

Minimum Prevalence of HD (per

100.000) Globally

Abstract

Huntington's disease (HD) is a fatal autosomal dominant genetic disorder that causes the progressive breakdown of nerve cells in the brain. It is caused by the aggregation of mutated Htt protein. The aim of this study is to upregulate the degradation of the soluble and already aggregated insoluble forms of mHtt by Chaperone-Mediated and Ubiquitin-mediated Autophagy. Adeno-associated viruses(AAV), can be used as vectors containing mRNA coding the proteins that are involved in autophagy regulation.

Introduction Huntington's disease

Neurodegenerative disorders encompass a wide range of conditions. One of such diseases is Huntington's disease (HD), that, based on a affects approximately 2.71 per meta-analysis. 100,000 [1]. HD is a genetic autosomal dominant neurodegenerative disease caused by the expansion of a CAG repeat in the huntingtin (HTT) gene. This triplet expansion encodes a polyglutamine stretch (polyQ) in the N-terminus of the high molecular weight (348-kDa) and ubiquitously expressed Huntingtin protein (Htt). Normal individuals have between 6 and 35 CAG triplets, while expansions longer than 40 repeats lead to HD [2](Figure 1). There's currently no cure for Huntington's disease. Medicine can help reduce some of the symptoms caused by Huntington's disease, but they don't stop or slow down this lethal condition.

Autophagy

In order to maintain cellular homeostasis, cells have developed elaborate quality-control mechanisms for proteins and organelles. One of this systems include the degradation pathways, called globally "autophagy". Autophagy can diversify in many types such as Chaperon-mediated (CMA) and Ubiquitin-mediated autophagy (UMA) of protein aggregates (aggrephagy)[3].

Objectives

The aim of this study is to induce the activity of autophagy in neural brain cells, which is a highly conserved mechanism of lysosomal -mediated protein degradation, for targeting Huntingtin aggregates.

Methodology For soluble mHtt : Chaperone-Mediated Autophagy

Chaperone-mediated autophagy (CMA) is lysosomal pathway primarily characterized by its selective nature of protein degradation, which is mediated by chaperon **HSC70** (heat shock cognate 71 kDa) and lysosome-associated membrane protein **LAMP-2A**. The HSC70 binds to mutated Htt then the complex binds to the LAMP-2A in the lysosomal membrane and enters the lumen.

HSC70

HSC70 is a unique protein that mediates CMA. HSC70 binds unfolded/misfolded proteins that have an exposed KFERQ amino acid sequence motif and transports them to the lysosome. The HSC70/KFERQ-client protein complex interacts and binds to the cytosolic tail of the monomer form of LAMP-2A [4].

LAMP 2A

LAMP 2A selectively translocates protein to lysosome. A conformational change of LAMP-2A transfers HSC70 to a lysosomal form(lys-Hsc70), which pulls the client protein into the lysosome for degradation(Figure 2). The transcription of LAMP 2A can be activated by compound CA77.1. CA77.1 can penetrate the blood-brain barrier (BBB) and promote the synthesis of LAMP 2A when applied orally[5].











For insoluble mHtt : Ubiquitin-mediated Autophagy

Optineurin Optineurin (OPTN) is a receptor that has an ubiquitin binding domain region (UbBD) that recognizes poliUbK63 signals. OPTN interacts with inclusion bodies(IB) formed by mHtt, that can not be degraded by the CMA pathway [6]. OPTN transfer IB to autophagosomes by directly binding with ATG8s through the LC-interacting region(LIR). The dynein/dynactin complex transports mature autophagosome near the lysosomes and form autolysosomes through the SNARE complex. After the fusion, lysosomal proteases degrade the IB [7](Figure 3).

AAV as a way of promotion The specificity of HSC70 to mHtt can be increased by using synthetic dimer (QBP1) that targets both polyQ sequence of mHtt and HSC70[8]. The production of HSC70 and the dimer can be kicked-off in the brain by injecting Adeno-associated viruses(AAV). vector

containing mRNA coding the proteins. Mutated AAV can be used to target the BBB and transfer mRNA into the brain[9]. The production of OPTN can be promoted in the brain by increasing the concentration of OPTN mRNA. Mutated AAV containing OPTN mRNA

Can be used for the purpose.

Discussion

In primary stages of HD, CA77.1 can be applied orally to increase LAMP 2A transcription and thereby increasing CMA with less risk of immune response. If CA77.1 treatment fails, then viral transduction neuron specific AAV with the mRNA sequence of a dimer that has domains of both HSC70 and mHTT can be used [9]. However, in later stages of HD when insoluble IBs form, mRNA of OTPN can be inserted through AAV transduction to degrade polyQ aggregates. These methods are specific to mHTT, so wild-type

These methods are specific to mHTT, so wild-type HTT has low chance of being degraded. But AAV transduction methods can't be used if the patient has been treated by this method before. In that case, a different viral vector should be used. Moreover, since this only focuses on mHTT degradation, methods such as gene editing are needed for more permanent solution.

Conclusion

Upregulating the production of the proteins involved in the autophagy systems discussed above, can be a way to enhance aggrephagy and delay disease progression. However, the interaction between two methods isn't investigated yet, so the risk of side effects must be considered.

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GENETIC BIOMARKERS OF PARKINSON'S DISEASE IDENTIFIED WITH MACHINE LEARNING METHODS

Group 17 Group members: Group facilitator:



Abstract

Although neurodegeneration in Parkinson's disease is yet to be fully understood, considerable evidence suggests that genetic factors can influence susceptibility to the disease.

In this project, we will try to examine which genes are associated with the disease. Modern Al methods (mainly machine learning) let us find genes that are linked to Parkinson's disease. This empowers us to predict whether someone is prone to the illness by examining their genome and comparing the genes.

Introduction

Parkinson's disease (PD) is the second most common neurodegenerative disease [1]. PD is characterized by the loss of dophaminergic neurons in the substantia nigra with the development of Lewy bodies containing α-synuclein. The clinical features of PD include tremors, rigidity, bradykinesia and cognitive impairment.

There are four biomarkers to identify PD: clinical, imaging, biochemical and genetic. A few methods are designed to identify genes few methods are designed to identity period and noncoding elements such as long noncoding RNAs. In current PD genetics nomenclature, 18 specific chromosomal regions termed PARK (from Parkinson) and numbered in chronological order of their identification (PARK1, PARK2, PARK3, etc) are found to be associated with the disease [4]. Several mutations are considered to cause dominant PD. Scientists have found new genes responsible for recessive or X-linked PD [5].

In our study we will discuss the genetic biomarkers of PD, different methods and computer tools for identifying them.

Methods

Machine learning algorithms, are widely used in various studies to identify the genes associated with various diseases.

In machine learning and statistics, feature selection is the method of selecting a subset of relevant features. There are several types of feature selection (Perturbation based selection, Hilbert-Schmidt selection, etc.). Classification methods are also diverse (SVM, Random forest, Adaboost, etc.).

New PD-linked genes or PD risk factors can be identified by gene mapping. Gene mapping in human diseases is localization of genes [4]. These methods include linkage analysis and genome-wide association studies. The gene underlying any heritable form of human disease can be mapped and identified by linkage analysis. The first step in classical linkage analysis is to hypothesize the mode of inheritance of the disease on the basis of a constructed pedigree. Linkage analysis is based on the tendency of a disease-causing sequence to remain unchanged, and markers at specified loci to be inherited together (linked).

The advent of recent sequencing technology, most notably next-generation sequencing (whole genome or exome) facilitates gene identification. In GWAS (Genome-wide association studies), the identification of genetic risk factors for the development of PD is achieved by analysing as many as 500 000 different single-nucleotide polymorphisms (SNPs) [4]. If certain variants are more frequent in the PD patients, they are considered to be associated with the disease. Many scientists used different methods in their work. For example, Radivojac presented an approach to predict the disease related genes based on



Figure 1. Pedigree of one family with PD, on which genome-wide linkage analysis was done, $\left[6 \right]$

Gene	Year	Additional clinical features besides Parkinsonism
SNCA	1997	Cognitive, behavioral, and autonomic dysfunction, myoclonus
LRRK2	2004	Few, variable. Possibly only milder non-motor disturbances
EIF4G1	2011	Probably not pathogenic
VPS35	2011	Cognitive and behavioral changes (?)
DNAJC13	2013	None
CHCHD2	2015	None. Two carriers with tremor only
TMEM230	2016	One large family only
RIC3	2016	One family only
Tabl	e 1. Mon	ogenic causes for autosomal dominant PD, [5]
	1	



Normal Case (

Figure 2. The proposed prediction system for identifying protein and lncRNA genes associated with PD, using the PyFeat method, [3]

Gene	Year	Atypical clinical features
PARK2 (Parkin)	1998	None
DJ-1	2003	None. Psychiatric features, dystonia (in some patients)
PINKI	2004	None. Cognitive/psychiatric symptoms (in some patients)
FBX07	2008	Spasticity, equinovarus deformity (in some patients)
22q11.2del	2013	Intellectual disability
SYNJ1	2013	Dystonia, cognitive decline, seizures
RAB39B	2014	Severe intellectual disability. X-linked mode of inheritance
DNAJC6	2015	Intellectual disability, other neurological features
PODXL	2016	None. One family only. To be confirmed in independent studies
VPS13C	2016	Severe cognitive dysfunction, tetraplegia
PTRHD1	2017	Severe cognitive dysfunction, muscular weakness

Table 2. Monogenic causes for autosomal recessive or X-linked PD or atypical iuvenile Parkinsonism, [5]





the protein-protein interaction (PPI) network [3]. First, they presented feature vectors in three

ways: disease-protein relationship, protein sequence, and protein function information. Second, the used information gene to rank features. Finally, in the classification step, they applied the support vector machine (SVM) classifier as a supervised technique with two layers for predicting genes related to the disease. There is also a new proposed system that can analyze two separate datasets: proteins and IncRNAs. Figure 2 shows a novel framework of the proposed prediction system comprising four steps, which is called PyFeat method [3].

A significant method is hierarchical clustering, an unsupervised clustering based machine learning technique. The general application of this method is generation of dendrograms showing similarity between the expression patterns of potentially PD-linked genes based on transcriptomics data used as an input. The benefit of hierarchical clustering is that it allows for comparison of supposed PD-linked genes with genes of known linkage with PD or other genes of pathogenic character, which is critical in generating a board understanding of genetic interaction.

Discussion

With these above mentioned methods scientists have discovered several genes and risk factors that can cause different variants of PD. Mutations in DNAJC13, CHCHD2, TMEM230 and RIC3 have been reported as new causes for monogenic dominant PD [5]. Compared to monogenic dominant PD and to the well established recessive early-onset PD genes PARK2, DJ1, and PINK1, the newly identified recessive forms appear more complex. Table 2 summarizes currently known and putative genes for recessive and X-linked PD.

All of above mentioned methods can be used to identify biomarkers of PD in different studies, but in result of our research we found out that the PyFeat method is the most accurate, because it analyses not only the proteins, but also IncRNAs and microRNAs.

Conclusion

To summarize, there are many genes affecting PD, but only 5-10% of that genes have been characterized and validated [3]. Other genetic factors causing PD are yet to be identified by the joint efforts of geneticist and clinicians working with PD.

Applying machine learning methods to study PD has enabled considerable advances in the field. Hence the development of more sophisticated algorithms and system-wide pathway analysis will help to better understand and characterize the biology of Parkinson's disease

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Synthetic Fibrinogen as a treatment for Afibrinogenemia

Abstract

Fibrinogen is a blood plasma glycoprotein, which is synthesized by the liver. The conversion of fibrinogen to fibrin is catalysed by thrombin and plays a key role in clot formation. Fibrinogen replacement therapy is used to treat bleeding episodes in patients with congenital and acquired fibrinogen deficiency. This study suggests to synthesize fibrinogen by three types of colonies of genetically modified yeast, one for each subunit of fibrinogen. Methods that we use in this research are gene editing, cultivation, centrifugation of cultures, protein purification and in-vitro protein assembly.

Introduction

Fibrinogen (fig. 1) is a 340 kDa protein synthesized primarily by hepatocytes. Fibrinogen plays a key role in normal hemostasis by promoting blood clot formation, platelet aggregation, and fibrinolysis (fig. 2). Hereditary defects of fibrinogen can affect either the quantity (hypofibrinogenemia and afibrinogenemia) the quality (dysfibrinogenemia) of circulating fibrinogen. Fibrinogen replacement therapy is currently indicated as prophylaxis and therapy of hemorrhage in congenital and acquired fibrinogen deficiency. [1] It is the commonly used treatment for bleeding

episodes in patients with afibrinogenemia and fibrinogen includes plasma-derived concentrate, cryoprecipitate and fresh frozen plasma (FFP). But thrombotic complications have been reported in patients with afibrinogenemia following replacement therapy, including ischemic foot lesions, ischemic stroke, renal and ovarian vein thrombosis, deep venous thrombosis, development of anaphylactic reactions and pulmonary embolism. [1]

Objective

Our objective is to propose a method for

artificially producing fibrinogen in order to

provide a more reliable treatment for the

Methods

Using three separate Polymerase Chain

Reactions (PCR), the cDNA from genes

responsible for the production of the three non identical polypeptide chains that compose fibrinogen are replicated. Through the process

reverse transcription occurs

double-stranded DNA molecule on which the sequence that occurs by the action of a

restriction enzyme, such as Eco-RI, is then attached. Using the same restriction enzyme,

the plasmid becomes linear, which allows the

desired gene to be inserted, and is then embolized on a petri dish with yeast, such as Saccharomyces cerevisiae (fig. 3). These

plasmids contain a selectable marker, usually an antibiotic resistance gene, so the antibiotics

act as a filter to select only the bacteria

containing the plasmid DNA (fig. 4). Then,

these are placed into a bioreactor and

cultivated, so as to produce the desired

strands, that can be connected through

artificial glycosylation to form fibrinogen [2].

the

described diseases.

of



Fig 1. Fibrinogen molecule. Schematic epresentation and 3D model from Köhler et al [2015].



Fig 2. Scheme of coagulation, clotting and fibrinolysis. From Silverton [2019]



ig 3. Yeast colored SEM. Species



(YAC). All necessary parts included. From Murray and Szostak [2022].

IGP Group 18: Biomedicine Group members: Arman Hayrapetyan Siluni Wickramathilake Aikaterini Karpouzi Daniel Čičovský Group Facilitator: Josue Francisco Laszeski

Discussion

The main advantage of this method is that cultivation of the yeast is much easier than artificial biosynthesis of giant organic molecules like fibrinogen. It resembles the usage of recombinant bacteria to produce insulin. Many species of yeast are used as model organisms, so scientists know a lot about their biology and biochemistry. In our project, yeast could be similarly utilised to replace bacteria, because it is a eukaryotic cell and can do eukaryotic post translational protein modifications [3]. However, these modifications are different from human ones and it can cause immune reaction [3]. Solution of the problem can be given by modern genetical engineering methods.

One of question connected to this topic is protein composition. Fibrinogen is made of the three subunits and it is not sure that the yeast cell can compose the whole protein from these subunits. It can be solved as in the case of insulin. We can have three types of colonies (one for a subunit, one for β subunit and one for y subunit) and the whole protein would be in-vitro assembled after the extraction.

Another problem could be that the synthesized fibrinogen could negatively affect metabolism of the yeast. Thus, this aspect must be addressed in posterior research.

Conclusion

Usage of fibrinogen synthesized by genetically modified yeast could be in the future effective and cheap treatment for people with the fibrinogen deficiency. Techniques similar to this have a plethora of applications, and can make treatments more accessible, as the broad usage of recombinant proteins for diabetes has proven [4]. Before it will be used it will need a lot of work of many scientists. We hope that this research will inspire someone to think more about this topic, so as to achieve an improvement in healthcare overall.

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7. CALCULATION OF EXAM RESULTS

7.1 NORMALISING RAW STUDENT EXAM SCORES AND CALCULATION OF FINAL STUDENT SCORE

The way the IBO 2022 organizing committee calculated the final scores of each student is described below. It follows the procedure applied at IBO 2015 and IBO 2013. In Figure X1, the IBO 2022 organizing committee shows the normalization of the raw scores for the four practical exams.

In Figure 6.4, 'Rank' gives each student final rank among all **237** students. The normalized scores for each Practical exam are obtained according to the formula:

$$NS_{i,e} = \frac{(S_{i,e} - \underline{S_e})}{SD_e}$$

where NS_i is the normalized score student *i* earned exam *e*, $S_{i,e}$ is the raw score student *i* earned exam *e*, $S_{\underline{e}}$ is the mean of scores in exam *e*, and SD_e is the standard deviation of scores in exam *e*.

Theoretical exam scores are normalized in the same way after summing the students' scores for the two exams (it is labeled as **Theroy_total_normalized** in the Figure X1).

The normalized scores of the practical exams are then summed (labeled as **practical_total** in Figure X1). Followingly the same normalization procedure is applied to the **practical_total** score to obtain the final normalized practical score (labeled as **practical_total_normalized** Figure X1). This second normalization is needed because the IBO 2022 organizing committee attempts to make the practical exams different to test a variety of student skills (which is not the case of the two theoretical exams). The second normalization was introduced in Bern 2013.

The final normalized score is calculated by summing **Theroy_total_normalized** and **practical_total_normalized**. Lastly, the final score is calculated by scaling the final normalized score according to the following formula:

$$FS = FNS * 10 + 50$$

where **FS** is the final score, **FNS** is the final normalized score.

The last transformation is used to make the score more student-friendly.

Rank	student_code	Name	Bioinformatics	Biochemistry	Plant_Physiology	Zoology	Bioinformatics_normalized	Biochemistry_normalized	Plant_Physiology_normalized	Zoology_normalized	practical_total	practical_total_normalized
x1	y1	z1	68	49	77.15	34	0.981	0.602	1.723	0.273	3.578	1.164
x2	y2	z2	85	18.5	77.8	23.75	2.099	-0.952	1.761	-0.328	2.580	0.839
x3	у3	z3	57.4	64	57.35	43.25	0.284	1.366	0.543	0.815	3.008	0.978
x4	y4	z4	54.2	62.5	55.5	27.25	0.073	1.290	0.433	-0.123	1.673	0.544
	Mean		53.08	37.18	48.23	29.35	0.00	0.00	0.00	0.00	0.00	0.00
		-										

Rank	student_code	Name	Bioinformatics	Biochemistry	Plant_Physiology	Zoology	Bioinformatics_normalized	Biochemistry_normalized	Plant_Physiology_normalized	Zoology_normalized	practical_total	practical_total_normalized
8	N.	~										
×1	<u>ю</u> у1	z1	68	49	77.15	34	0.981	0.602	1.723	0.273	3.578	1.164
								0.602 -0.952				
x1	y1	z1	68	49	77.15	34	0.981		1.723	0.273	3.578	1.164
x1 x2	y1 y2	z1 z2	68 85	49 18.5	77.15 77.8	34 23.75	0.981 2.099	-0.952	1.723 1.761	0.273 -0.328	3.578 2.580	1.164 0.839
x1 x2 x3	y1 y2 y3	z1 z2 z3	68 85 57.4	49 18.5 64	77.15 77.8 57.35	34 23.75 43.25	0.981 2.099 0.284	-0.952 1.366	1.723 1.761 0.543	0.273 -0.328 0.815	3.578 2.580 3.008	1.164 0.839 0.978
x1 x2 x3 x4	y1 y2 y3	z1 z2 z3 z4	68 85 57.4	49 18.5 64	77.15 77.8 57.35	34 23.75 43.25	0.981 2.099 0.284 0.073	-0.952 1.366	1.723 1.761 0.543	0.273 -0.328 0.815	3.578 2.580 3.008	1.164 0.839 0.978

Figure X1. Score calculations

Rank	student_code	Name	Theory_a	Thery_b	Theroy_total	Theroy_total_normalized	Rank	student_code	Name	final_normalized_score	final_score	Gap	Award
x1	y1	z1	34.8	36	70.8	1.211	x1	y1	z1	2.374	73.742	0.319	Silver
x2	y2	z2	38.8	35	73.8	1.503	x2	y2	z2	2.342	73.423	0.559	Silver
x3	уЗ	z3	36.8	35	71.8	1.308	x3	уЗ	z3	2.286	72.864	0.440	Silver
x4	y4	z4	36.4	39.4	75.8	1.698	x4	y4	z4	2.242	72.424	0.370	Silver
	Mea	n	29.34	29.05	58.39	0.00		Mea	n	0.00	50.00	0.39	
	SD		5.25	5.52	10.25	1.00		SD		1.88	18.79	0.71	

7.2 SUMMARY STATISTICS OF STUDENT SCORES AT THE EXAMS

The scores of the students at the six exams are summarized with box plots in Figure X2. Nonparametric Wilcoxon test was used to test for difference between the theory scores and among the practical exam scores. There was no significant difference detected between the theory scores which indicates that the two exams were uniform. On the other hand, all practical exams were significantly different from each other, which is expected since the IBO 2022 is testing a different set of skills in each exam. This is in agreement with results of statistical analysis of previous IBOs and is the reason the IBO 2022 organizing committee normalizes the scores.



Figure X2. Box plots of the results of theoretical and practical exams. ns=non-singificant, *** = P<0.001, **** = P<0.0001.



Histograms illustrating score distributions of the six exams are given in Figure X3.



Figure X3. Histograms of student scores in the exams.

7.3 RELATIONSHIPS BETWEEN STUDENT PERFORMANCE IN THE DIFFERENT EXAMS

The two theoretical exams are regarded as replicates. Therefore, the IBO 2022 organizing committee expects individual students to perform similarly in both. This was tested by a simple correlation analysis (Figure X4). R score and P value are measured. R is a correlation coefficient that measures the strength of the relationship between two variables, as well as the direction on a scatter plot.

The individual student scores from the two theoretical exams were highly correlated with R=0.81 and P<2.2e-16. On the other hand, the four practical exams should certainly not be replicated since they test different practical skills of the students. Therefore, the IBO 2022 organizing committee expected weaker correlations. The possible six correlations between pairs of practical exams are shown in Figure X4 (**R** value on the up-left corner of each plot).





Figure X4. Correlation between raw scores in the four practical exams, and between the two theoretical exams.

The individual student scores from the four practical exams are correlated with R varying from 0.33 to 0.62, which is still high values but the correlation is significantly less strong than in between the theoretical exams. If a student is strong in one practical discipline, they generally perform well in the other practical exams as well, but there is still much differentiation in the skillsets. The IBO 2022 organizing committee has obtained the strongest correlation between Plant Physiology and Bioinformatics, while the weakest correlation is between Zoology and Biochemistry. For comparison, corresponding values for the IBO 2013 practical exams ranged from 0.18 to 0.55, and for IBO 2015 from 0.17 to 0.39.

7.4 FINAL SCORES AND MEDAL DECISION

The normalized scores **Theroy_total_normalized** and **practical_total_normalized** for the exams were strongly correlated (R = 0.77****, Figure X5). The distribution of the final scores of the students is given in Figure X6.



Figure X5. Correlation between the normalized scores for the two kinds of exams



Figure X6. Frequency distribution of the final scores for the students. A normal distribution density function is fitted on the histogram.

Based on the final scores out 237 participants, 26 students have been awarded gold medals (11%), 46 students have been awarded Silver medals (19.4%), 71 students have been awarded Bronze medals (30%), and 25 students have been awarded Merit Certificates (10.5%) (with a 10%-20%-30%-10%-30% distribution being the ideal required by IBO).

The ranking table is presented below.

Rank	1	eporoode	Biogendent Olympiad Delegation	B X VAKOV Dmitrevich KOROBITSYN	e_fuory_a	pp bp bp bp bp bp bp bp bp bp bp bp bp b	Theory_total	t_score_t_total	Bioinformatics	Biochemistry	Vgology Plant_hhysiology	ABojoo Z	Bioinformatics_t_score	Blochemistry_t_score	Plant_Physiology_t_score	Zoology_1_score	practical_total_t_score	practical_total_normalized	evoce tileut 4239	92.392	Di Award
1.3	_		Bulgaria	Petar Stollov Zhotev	36.2	40.2	76.4	1.757	73.8	54	87.55	66.75	1.362	0.857	2.342	2.193	6.754	2.196	3.953	89.531	Gold
			Thailand	Natchapol Vongtanakiat	35.6	37.2	72.8	1.406	79	58.5	91.8	40.5	1.704	1.086	2.595	0.654	6.039	1.964	3.370	83.696	Gold
-		DN2	Indonesia Czech Republic	Gregorius Tendi	39	39.2	78.2	1.932	68	73.5	70.275	29.75	0.981	1.850	1.313	0.023	4.167	1.355	3.288	82.876	Gold
		OD3	Independent Olympiad Delegation	Marek Pavlica NAZIM Rafilevich MUSTAFIN	38.4 39.4	37.4 34.8	75.8	1.698	65 74.4	67.5 69.5	64.6 78.675	55 35	0.784	1.544	0.975	0.331	4.807 5.193	1.563	3.261	82.614 82.309	Gold
		RN1	Iran	Mahdi - AFSHARI ESFIDVAJANI	34.8	38.6	73.4	1.464	73.4	60.5	84.25	40.75	1.336	1.188	2.146	0.668	5.338	1.736	3.200	82.000	Gold
-	-		Chinese Taipei (Talwan)	YU-CHEN HUANG	38.4	35.6	74		65.8	51	74.3	62	0.836	0.704	1.553	1.914	5.007	1.628	3.151	81.510	Gold
	-		Japan Chinese Taipei (Taiwan)	Talga Mitamura CHEN-AN - LIU	38.2	36.8 37.6	75	1.620	84.2 71.6	64 53.5	66.925 76.3	30.75 56	2.046	1.366	1.114	0.082	4.608	1.498	3.119	81.187	Gold
			Independent Olympiad Delegation	SEMEN Sergeevich SHMAKOV	34.0	32.6	67.6	0.899	84.6	79.5	77.5	40.5	2.072	2.156	1.0/2	0.654	6.625	2.154	3.053	80.529	Gold
	12 1		Independent Olympiad Delegation	KARINA Markovna KARIMOVA	37.8	35.8	73.6	1.484	72.4	19	81.05	70.75	1.270	-0.926	1.955	2.427	4.726	1.537	3.021	80.207	Gold
			Iran	Amirreza - ZEINALI	34.2	37.6	71.8	1.308	68.2	75	82.825	30	0.994	1.926	2.061	0.038	5.019	1.632	2.940	79.404	Gold
		TUR4 SGP4	Türkiye Singapore	Tolga Atilir Owen JunHeng Ong	35.8 38	31.4 32	67.2	0.860	83 79.4	67.5 37.5	66.95 83.675	58.5 56.75	1.967	1.544	1.115	1.709	6.335 5.464	2.060	2.920	79.197	Gold
			Iran	Mohammad Amin - KIANI	36.8	39	75.8	1.698	73.4	59.5	71.7	17.75	1.336	1.137	1.398	-0.680	3.191	1.038	2.736	77.359	Gold
			Chinese Taipei (Taiwan)	LIANG-SHIN HUANG	37.4	37	74.4	1.562	78.8	55.5	69.5	23.75	1.691	0.933	1.267	-0.328	3.563	1.159	2.720	77.203	Gold
	-	THA4	Thailand	Yannaruk Thawomrungkit	36.8	30.4	67.2	0.860	66	72.5	58.45	70	0.849	1.799	0.609	2.383	5.640	1.834	2.694	76.936	Gold
	-	FUR3 POL2	Türkiye Poland	Latif Hatipoğlu JAGIENKA MADRZAK	39.4 37.2	37.2	76.6	1.776	57.8 59	50.5 63.5	61.675	46.5	0.310	0.678	0.801	1.005	2.795	0.909	2.685	76.852	Gold
		HUN3	Hungary	Anna Barna-Lazar	35.8	35.4	74.0	1.250	76.8	48	53.65	55	1.559	0.551	0.323	1.504	3.937	1.280	2.530	75.299	Gold
. 4	22	DN1	Indonesia	Michael Purnama	37.8	36.2	74	1.523	73.2	44	65.3	35.25	1.323	0.347	1.017	0.346	3.033	0.986	2.509	75.090	Gold
		RN2	Iran	Mohammad Mehdi - RAHIMPOUR	36	37.4	73.4	1.464	49.2 80.2	68.5	87.275	21.25	-0.255	1.595	2.326	-0.475	3.191	1.038	2.502	75.019	Gold
			Germany	Kasimir Reich Mayank Pandhari	35.8 34.8	33.2 34.4	69.2	1.035	80.2	23	74.075	60.5 45.75	1.783	-0.722	0.877	1.826	4.426	1.439	2.474	74.745	Gold
			Singapore	Min Seo Koo	32.8	33.6	66.4	0.781	62.4	64.5	71.125	58.25	0.613	1.392	1.364	1.694	5.062	1.646	2.400	74.276	Gold
	27 1	THA1	Thailand	AIRIN INTARATAT	34.8	36		1.211	68	49	77.15	34	0.981	0.602	1.723	0.273	3.578	1.164	2.374	73.742	Silver
1000	_	KOR4 BGR2	South Korea Bulgaria	Joo Hyun Hahm Borielay Valentinov Stovenov	38.8 36.8	35	73.8	1.503	85 57.4	18.5	77.8	23.75 43.25	2.099	-0.952	1.761	-0.328	2.580	0.839	2.342	73.423	Silver
	-	NZL4	Bulgaria New Zealand	Borislav Valentinov Stoyanov Junzhe Li	36.8	35	71.8	1.308	57.4	62.5	57.35 55.5	43.25	0.284	1.366	0.543	-0.123	3.008	0.978	2.286	72.864	Silver
3	31 5	SAU2	Saudi Arabia	YAZAN ALMOGHRABI	33.6	35.6	69.2	1.055	62.8	70.5	59.175	38.75	0.639	1.697	0.652	0.551	3.539	1.151	2.205	72.054	Silver
		POL3	Poland	ALEKSANDRA WERONIKA KOWALCZYK	31	33	64	0.547	71.2	81.5	77.05	26.5	1.191	2.257	1.717	-0.167	4.998	1.625	2.173	71.728	Silver
	33 1		Italy	Leonardo Morotti	28.2	36.2	64.4	0.586	61.2	67.5	59.65	64.5	0.534	1.544	0.680	2.061	4.819	1.567	2.153	71.534	Silver
		SVK2 JPN3	Slovakia Japan	Ján Plachý Satsu Shimada	29.6 34.2	32.4 34.4	62 68.6	0.352	76.6	72.5	64.5 62.45	50 52	1.546	1.799	0.969	1.211	5.525 3.415	1.797	2.149	71.489	Silver
		DEU3	Germany	Martha Genzer	31.8	34.2	66	0.742	61.6	76	59.975	45.5	0.560	1.977	0.700	0.947	4.184	1.360	2.103	71.029	Silver
		POL1	Poland	SZYMON STANISŁAW BANDER	32.2	37.4	69.6	1.094	74.4	36	58.025	47.25	1.402	-0.060	0.583	1.049	2.974	0.967	2.061	70.608	Silver
	_	NZL2 SGP2	New Zealand	Shuxin Janet Guo	32	34.4 34.8	66.4 62.8	0.781	68.6 72.4	57 56.5	73.55 68.1	32.25 51.25	1.020	1.009	1.508	0.170	3.708	1.206	1.987	69.873 69.657	Silver
		TUR1	Singapore Türkiye	George Lee Abdullah Akif Çelikkaya	33.6	34.0	67.4	0.430	83.2	27	64.3	39.5	1.980	-0.519	0.957	0.595	3.014	0.980	1.966	68.591	Silver
	-	DEU2	Germany	Konrad Jannes Köhler	30.4	35.8	66.2	0.762	73	56.5	69.9	24.5	1.310	0.984	1.291	-0.284	3.300	1.073	1.835	68.351	Silver
			Poland	ZUZANNA ŻYRA	34.4	34.6	69	1.035	59.6	43.5	61.625	43	0.429	0.322	0.798	0.800	2.348	0.764	1.799	67.988	Silver
	-		United Kingdom Hungary	Sri Nivasan Loganathan Tamas Soma Szalay	34.2 29.8	32.6 33.8	66.8 63.6	0.821	74.6 58.6	31.5	65.8 77	43 43.75	1.415	-0.289 0.908	1.047	0.800	2.972 3.828	0.966	1.787	67.870	Silver
			Kazakhstan	Yerassyl Temirbekov	29.8	33.8	70.6	1.191	76.4	9	72	43.75	1.533	-1.435	1.416	0.199	1.713	0.557	1.753	67.482	Silver
1	-		Chinese Taipei (Taiwan)	KAI-JIE HU	33	35	68	0.938	61	52.5	59.4	34.75	0.521	0.780	0.665	0.317	2.283	0.742	1.680	66.798	Silver
-	2.0		India	Rohit Panda	34.6	33.8	68.4	0.977	57.4	8.5	76.8	57	0.284	-1.461	1.702	1.621	2.146	0.698	1.674	66.744	Silver
			Kazakhstan Argentina	Alikhan Zhumagaleyev Donato Elias Pellegrini	36.4	34.6 32.6	71	1.230	70.6	32	49.5 52.05	34.25	1.152	-0.264	0.075	0.287	1.251 2.527	0.407	1.637	66.368	Silver
			Thailand	Archawin Kittirattanapaiboon	34.4	33.8	68.2	0.957	79.8	36.5	49.75	32.5	1.757	-0.035	0.090	0.185	1.997	0.649	1.606	66.064	Silver
			Netherlands	Sebastian Jacob Krikke	32.6	38.8	71.4	1.269	63.8	52	49.25	19.5	0.705	0.755	0.061	-0.577	0.943	0.307	1.576	65.757	Silver
	-	ND1 SR1	India Israel	Amritansh Nigam Nadav Ovit	38.4	36.4	74.8	1.601	64.8 68.2	17.5	64.55 53.775	15.25 56.5	0.770	-1.002	0.972	-0.827	-0.087	-0.028 0.829	1.573	65.726 65.327	Silver
	54 L	TU3	Lithuania	Povilas Šaučiuvienas	35	34.0	68.2	0.957	64.2	56	35.3	41.25	0.731	0.959	-0.770	0.698	1.617	0.629	1.483	64.828	Silver
		NLD3	Netherlands	Allie Heyue Zong	26.4	28	54.4	-0.389	63.4	78	61.95	66.25	0.678	2.079	0.817	2.163	5.738	1.866	1.477	64.769	Silver
		.VA2	Latvia	Nauris Priksans	33	30.4	63.4	0.489	61.4	59.5	44.875	55	0.547	1.137	-0.200	1.504	2.987	0.971	1.460	64.603	Silver
			United Kingdom United Kingdom	Jack Yu Senan James Bottomley	29.2 29.4	29.6 35.4	58.8 64.8	0.040	73	41.5	70 63.75	52.75 18.5	1.310	0.220	1.297	1.372	4.198	1.365	1.405	64.053 63.252	Silver
-	-		South Korea	Joochan Kim	34.6	35	69.6	1.094	59	32.5	76.15	10.5	0.389	-0.238	1.663	-1.105	0.709	0.230	1.324	63.240	Silver
	60 H		South Korea	Yechan Jeong	34	31.2	65.2	0.664	69.8	26	67.8	33.75	1.099	-0.570	1.166	0.258	1.953	0.635	1.300	62.996	Silver
			Slovakia India	Matùš Grieš Prachi Jindal	30.8 33.4	31 34.2	61.8	0.333	61.8 44	74	43.35	43 16.25	0.573	1.875	-0.291	0.800	2.958	0.962	1.295	62.947 62.525	Silver
	63 I		Italy	Pletro Canidio	33.4	34.2	69.2	1.055	55.2	41	63.375	18.25	0.139	0.195	0.902	-0.651	0.585	0.354	1.252	62.448	Silver
	64 \	/NM1	Vietnam	DAT VAN QUOC TRUONG	31	36.4	67.4	0.879	69	32	68.3	14.5	1.047	-0.264	1.195	-0.871	1.107	0.360	1.239	62.392	Silver
			Denmark	Leonard Winkel Holm	28.2	37.2	65.4	0.684	57.2	56.5	50.275	34.75	0.271	0.984	0.122	0.317	1.693	0.551	1.234	62.345	Silver
			Sweden	Nils Kalmnäs Drakenfors Huberts Zimackis	30.2 31.4	33 29.6	63.2 61	0.469	67.4 55.6	56 47.5	57.425 72.325	25.5 39.5	0.941	0.959	0.548	-0.226	2.222 2.721	0.722	1.192	61.918	Silver
			Czech Republic	Daniel Čičovský	33	31.6	64.6	Sec. Sec. Sec.	54.6	24	57.975	54.75	0.100	-0.671	0.580	1.489	1.498	0.487	1.093	60.930	Silver
	69 D	DEU4	Germany	Pierre Naguib	32.6	31.8	64.4		75	45.5	49.3	21.25	1.441	0.424	0.064	-0.475	1.453	0.473	1.059	60.590	Silver
		FIN3	Finland	Antti Olavi Karonen	32.8 37.8	30.4	63.2 73	0.469	63 71.2	42.5	63.05 40	29.25 13.75	0.652	0.271	0.883	-0.006	1.800	0.585	1.055	60.546 60.546	Silver
			Syria Kazakhstan	BASEL HASAN ALKANJO Dinmukhammed Omar	37.8	35.2	58.2	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	57.4	19 34.5	40 67.575	13.75 61.25	0.284	-0.926	-0.490	-0.915	-1.140 3.170	-0.371	1.055	60.546 60.124	Silver
1	73 1	NLD4	Netherlands	Mila Liset Koekoek	31.2	27.2	58.4	0.001	55.2	64	55.75	45.5	0.139	1.366	0.448	0.947	2.900	0.943	0.944		Bronze
			Indonesia	Sherly Anastasia	34	29	63		49.2	49	62.3	34.5	-0.255	0.602	0.838	0.302	1.487	0.483	0.933		Bronze
			Spain Israel	Raúl Marín Torralba Halel Brandel	30.6	30.2 31		0.235	35.8 48.6	32.5 78.5	74 48.2	63 37.25	-1.136	-0.238	1.535	1.973	2.133	0.694	0.929		Bronze
			Czech Republic	Matěj Pokorný	29.2 34.6	37.8	72.4		48.6	12.5	48.2	37.25	-0.295	-1.257	-0.002	+0.753	-1.433	-0.466	0.915		Bronze
			Mongolia	Tergel Enkhtuvshin	29.4	32.2	61.6	1.55511.00	68.2	58.5	41.225	29	0.994	1.086	-0.418	-0.021	1.642	0.534	0.847		Bronze
			Israel	Ron Yosef Eylon	30.2	33	63.2	0.469	45.8	54.5	65.95	24.25	-0.479	0.882	1.055	-0.299	1.160	0.377	0.846		Bronze
			Vietnam Uzbekistan	LAM PHUC NGUYEN Aziza Farhod kizi Abduvaliyeva	34.8 34.4	31.8 31.8	66.6 66.2	0.801	62.2 50.4	15.5	42.35 55.6	44 35.25	0.599	-1.104	-0.350	0.859	0.003	0.001	0.802		Bronze
			Moldova	Constantin Babuc	34.4	31.8	65.8		50.4 69.8	25	44.125	35.25	1.099	-0.875	-0.245	0.346	0.105	-0.004	0.758		Bronze
1	83 1	NOR4	Norway	Ole Einar Dalen	32.2	31.4	63.6	0.508	49	57	52.425	24.5	-0.268	1.009	0.250	-0.284	0.706	0.230	0.738	57.381	Bronze
			Bulgaria	Lyuboslav Ivanov Stefanov	33.8	29.2	63	0.450	55.8	34	54.9	37.25	0.179	-0.162	0.397	0.463	0.877	0.285	0.735	57.350	Bronze
			Vietnam Luxembourg	THANH TIEN VO Rémi Waldemar Peuscet	35.2 30.2	35.4 25.8	70.6	1.191	66.8 48.6	10 46	42.5 51.725	18	0.902	-1.385 0.449	-0.342 0.208	-0.665	-1.490 2.863	-0.484 0.931	0.707	57.068 56.980	Bronze
			Lithuania	Jorūnė Budriūnaitė	33.2	25.0	62.2	0.233	40.0	40	62.4	18.75	0.310	0.449	0.208	-0.621	0.982	0.319	0.691		Bronze
	88 0	CHE1	Switzerland	Davide Petraglio	34.2	31	65.2	0.664	52.2	51	38.3	27.5	-0.058	0.704	-0.592	-0.108	-0.054	-0.018	0.647	56.467	Bronze
		CHE4	Switzerland	Mathilde Rolle	31.6	27.6 28.6	59.2 59.8	0.079	63.8 63	27 44.5	55.55 56.925	48 28.5	0.705	-0.519	0.436	1.093	1.715	0.558	0.637		Bronze
1			1 - A day										0.652	0.373	0.518	-0.050	1.493	0.485	0.623		Bronzei
1	90 L	.VA4	Latvia	Kristians Lelis Barbara Jozić	31.2																
4	90 L 91 H	VA4 HRV2	Latvia Croatia Slovenia	Kristians Lelis Barbara Jozić Marija Snežna Benedičić	31.2 28.6 29.2	26.2	59.8 55.8 55.4	-0.252	61.6 53.2	30.5 65	42.95 61.7	76.75	0.560	-0.340 1.417	-0.315	2.779	2.684	0.873	0.623	56.203	Bronze
	90 L 91 H 92 S 93 C	-VA4 HRV2 SVN2 CZE1	Croatia	Barbara Jozić	28.6	27.2 26.2 30.6	55.8 55.4 63.2	-0.252 -0.291 0.469	61.6	30.5 65 26.5	42.95	76.75	0.560	-0.340	-0.315	2.779	2.684	0.873	0.620	56.203 55.738 55.676	Bronze Bronze Bronze

- 1016		Notes and the
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	PHL3	Philippines
 | 29.8 | 27.2 | 57 | -0.135
 | 68.8 | 47.5 | 39.75
 | 46.5 | 1.033 | 0.526 | -0.505

 | 1.005 | 2.059
 | 0.670 | 0.534 | 0001000
 | Bronze |
| 96 | NZL1 | New Zealand | Sarah Jane Ellis
 | 31.6 | 30.4 | 62 | 0.352
 | 60 | 27 | 48.325
 | 39.25 | 0.455 | -0.519 | 0.005

 | 0.580 | 0.522
 | 0.170 | 0.522 | 55.221
 | Bronze |
| 97 | VNM3
BRA3 | Vietnam
Brazil | NGUYEN TRONG PHUOC DO
 | 28.8 | 31.8 | 60.6 | 0.216
 | 52.2 | 40.5 | 67.05
 | 32.75 | -0.058 | 0.169 | 1.121

 | -0.431 | 0.801
 | 0.260 | 0.476 | 54.762
54.734
 | Bronze |
| 99 | SWE4 | Sweden | José Eduardo Pascalichio Bertozzi
Ivar Avelin
 | 32.2 | 31
28.6 | 60.8 | 0.235
 | 65.4 | 43.5 | 40.125
 | 37.75 | 1.178 | -0.162
0.322 | -0.483

 | 0.492 | 0.732
 | 0.236 | 0.473 | 54.712
 | Bronze |
| 100 | NLD1 | Netherlands | Tristan van der Beek
 | 33.8 | 31.4 | 65.2 | 0.233
 | 50.6 | 31.5 | 59.125
 | 15.5 | -0.163 | -0.289 | 0.649

 | -0.812 | -0.616
 | -0.200 | 0.464 | 54.642
 | Bronze |
| 101 | DNK4 | Denmark | Albert Rumle Bernsen
 | 27.4 | 31 | 58.4 | 0.001
 | 47.8 | 68 | 60.55
 | 20.25 | -0.347 | 1.570 | 0.734

 | -0.534 | 1.423
 | 0.463 | 0.464 | 54.638
 | Bronze |
| 102 | FIN4 | Finland | Emilia Maija Elisabet Jaakkola
 | 32.4 | 27.4 | 59.8 | 0.138
 | 62.4 | 35 | 45.3
 | 40.25 | 0.613 | -0.111 | -0.175

 | 0.639 | 0.966
 | 0.314 | 0.452 | 54.518
 | Bronze |
| 103 | ROU2 | Romania | DAVID-ANDREI VLAD
 | 31.6 | 31.6 | 63.2 | 0.469
 | 52.2 | 53.5 | 44.85
 | 17.75 | -0.058 | 0.831 | -0.202

 | -0.680 | -0.108
 | -0.035 | 0.434 | 54.341
 | Bronze |
| 104 | HUN4 | Hungary | Otto Tatai
 | 30.6 | 28.8 | 59.4 | 0.099
 | 49.2 | 50.5 | 59.45
 | 28.25 | -0.255 | 0.678 | 0.668

 | -0.065 | 1.027
 | 0.334 | 0.433 | 54.326
 | Bronze |
| 105 | SGP1 | Singapore | Aravindh Velmurugan Kuppusamy
 | 32 | 34.8 | 66.8 | 0.821
 | 67.2 | 7 | 52.975
 | 14.5 | 0.928 | -1.537 | 0.282

 | -0.871 | -1.197
 | -0.389 | 0.431 | 54.312
 | Bronze |
| 106 | HUN1 | Hungary | Petra Nneka Oparaugo
 | 29.6 | 32.2 | 61.8 | 0.333
 | 61.8 | 36 | 56.3
 | 17.5 | 0.573 | -0.060 | 0.481

 | -0.695 | 0.299
 | 0.097 | 0.430 | 54.300
 | Bronze |
| 107 | ARG1 | Argentina | Gregorio Jaca
Sude Filiz Diren
 | 32.6 | 30.2 | 62.8 | 0.430
 | 52.8 | 22 | 45.55
 | 45.5 | -0.019 | -0.773 | -0.160

 | 0.947 | -0.005
 | -0.002 | 0.429 |
 | Bronze |
| 108 | TUR2
LUX4 | Türkiye
Luxemboura | Nina Hélène Gaèlle Bernier
 | 27.8 | 33
30.4 | 60.8
58.8 | 0.235
 | 68.8
58.8 | 50
46 | 53
40.5
 | 4.75 | 1.033 | 0.653 | 0.284

 | -1.442 | 1.018
 | 0.172 | 0.407 | 54.070
53.712
 | Bronze |
| | LUA4 | Lithuania | Paulius Mikalauskas
 | 33.4 | 30.4 | 64 | 0.547
 | 62.6 | 32 | 39.3
 | 22.25 | 0.626 | -0.264 | -0.532

 | -0.416 | -0.587
 | -0.191 | 0.357 | 53.566
 | Bronze |
| 111 | KOR2 | South Korea | Seoyeon Jeon
 | 31.8 | 33 | 64.8 | 0.625
 | 58.4 | 24.5 | 42.35
 | 24.25 | 0.350 | -0.646 | -0.350

 | -0.299 | -0.946
 | -0.308 | 0.318 | 53.178
 | Bronze |
| 112 | PHL2 | Philippines | Raven Glorianne Herrera Foronda
 | 33.2 | 25 | 58.2 | -0.018
 | 54.6 | 28.5 | 50.6
 | 50 | 0.100 | -0.442 | 0.141

 | 1.211 | 1.009
 | 0.328 | 0.310 | 53.098
 | Bronze |
| 113 | JPN4 | Japan | Kohei Kawakami
 | 27.2 | 29.6 | 56.8 | -0.155
 | 51 | 59.5 | 54
 | 30.5 | -0.137 | 1.137 | 0.344

 | 0.067 | 1.411
 | 0.459 | 0.304 | 53.039
 | Bronze |
| 114 | NZL3 | New Zealand | Jacob Liam Miller
 | 29.8 | 29 | 58.8 | 0.040
 | 65.6 | 19.5 | 46.35
 | 45.25 | 0.823 | -0.901 | -0.112

 | 0.932 | 0.742
 | 0.241 | 0.282 | 52.816
 | Bronze |
| 115 | MNG2 | Mongolia | Jargalan Chinbat
 | 29.8 | 27.2 | 57 | -0.135
 | 50 | 17.5 | 57.35
 | 59.75 | -0.203 | -1.002 | 0.543

 | 1.782 | 1.120
 | 0.364 | 0.229 | 52.289
 | Bronze |
| 116 | CHE2 | Switzerland | Dominik Rožman
 | 26.6 | 31.2 | 57.8 | -0.057
 | 44.6 | 50 | 43.8
 | 45.75 | -0.558 | 0.653 | -0.264

 | 0.961 | 0.793
 | 0.258 | 0.200 |
 | Bronze |
| 117 | IDN3
LKA2 | Indonesia
Sri Lanka | Jefferson Filbert Tjoenardi
 | 28.8 | 29 | 57.8 | -0.057
 | 49.2 | 35 | 63.75
55.35
 | 33.25 | -0.255 | -0.111 0.195 | 0.924

 | 0.229 | 0.787
 | 0.256 | 0.198 |
 | Bronze |
| 1 | ROU3 | Romania | Harshan Aruimoli
STEFAN IONEL DUMITRESCU
 | 31.6 | 28.4 | 60 | 0.157
 | 64.8 | 53.5 | 40.025
 | 11.25 | 0.770 | 0.831 | -0.489

 | -1.061 | 0.051
 | 0.017 | 0.101 |
 | Bronze
Bronze |
| 120 | CHE3 | Switzerland | Zora Frieda Althaus
 | 27 | 31.4 | 58.4 | 0.001
 | 67.2 | 55.5 | 30.375
 | 24.75 | 0.928 | 0.933 | -1.064

 | -0.270 | 0.528
 | 0.172 | 0.173 |
 | Bronze |
| 121 | LTU4 | Lithuania | Mindaugas Smetaninas
 | 29 | 27.8 | 56.8 | -0.155
 | 48 | 46 | 33.75
 | 55.25 | -0.334 | 0.449 | -0.863

 | 1.518 | 0.771
 | 0.251 | 0.096 | 50.957
 | Bronze |
| 122 | BGR4 | Bulgaria | Yana Aleksandrova Atanasova
 | 29.6 | 26.4 | 56 | -0.233
 | 53 | 61 | 40.15
 | 33.5 | -0.005 | 1.213 | -0.482

 | 0.243 | 0.970
 | 0.315 | 0.082 | 50.823
 | Bronze |
| 123 | EST1 | Estonia | Vesta Selg
 | 29.2 | 28.6 | 57.8 | -0.057
 | 45.8 | 30.5 | 60.05
 | 37.75 | -0.479 | -0.340 | 0.704

 | 0.492 | 0.377
 | 0.123 | 0.065 | 50.653
 | Bronze |
| 124 | HRV3 | Croatia | Mislav Mihaljević
 | 28 | 30.4 | 58.4 | 0.001
 | 43.4 | 42 | 53.95
 | 31 | -0.637 | 0.245 | 0.341

 | 0.097 | 0.046
 | 0.015 | 0.016 | 50.161
 | Bronze |
| 125 | LVA1 | Latvia | Markuss Gustavs Kenins
 | 32.2 | 29.4 | 61.6 | 0.313
 | 48 | 25 | 51.275
 | 26 | -0.334 | -0.620 | 0.181

 | -0.196 | -0.970
 | -0.315 | -0.002 | 49.979
 | Bronze |
| 126 | SVK1
DNK2 | Slovakia
Denmark | Tomáš Kompiš
Alexander Levanius Ardilsø
 | 30.8 | 30
33.8 | 60.8 | 0.235
 | 54.2
46.6 | 37.5 | 31.5
 | 29.75 | 0.073 | 0.016 | -0.997

 | 0.023 | -0.884
 | -0.287 | -0.052 | 49.479
 | Bronze |
| 127 | BGD4 | Bangladesh | Khundker Ishrag Ahammad
 | 27.2 | 29.2 | 56.4 | -0.194
 | 40.0
59.2 | 46.5 | 54.1
 | 5.25 | 0.402 | 0.933 | 0.350

 | -1.413 | 0.272
 | -0.768 | -0.1064 | 49.357
 | Bronze |
| 120 | KAZ4 | Kazakhstan | Bakdaulet Yernazarov
 | 30.6 | 28 | 58.6 | 0.021
 | 59.4 | 28.5 | 22.95
 | 46.75 | 0.402 | -0.442 | -1.506

 | 1.020 | -0.513
 | -0.167 | -0.146 | 48.539
 | Bronze |
| 130 | SVN4 | Slovenia | Ema Šuligoj
 | 31.2 | 32.8 | 64 | 0.547
 | 33.2 | 64 | 23.55
 | 16 | -1.307 | 1.366 | -1.470

 | -0.783 | -2.194
 | -0.714 | -0.166 | 48.338
 | Bronze |
| | BGD2 | Bangladesh | Fayyad Ahmmed
 | 31.6 | 30 | 61.6 | 0.313
 | 50 | 25.5 | 34.7
 | 31.25 | -0.203 | -0.595 | -0.806

 | 0.111 | -1.493
 | -0.485 | -0.172 | 48.279
 | Bronze |
| | BGD3 | Bangladesh | Tahseen Shaan Leon
 | 26.8 | 30.8 | 57.6 | -0.077
 | 58 | 59.5 | 27.275
 | 20.25 | 0.323 | 1.137 | -1.249

 | -0.534 | -0.322
 | -0.105 | -0.182 | 48.184
 | Bronze |
| | PRT3 | Portugal | André Daniel Malta Aires Melo da Cruz
 | 28.8 | 26.6 | 55.4 | -0.291
 | 37.8 | 52 | 54.95
 | 31 | -1.005 | 0.755 | 0.400

 | 0.097 | 0.247
 | 0.080 | -0.211 | 47.888
 | Bronze |
| | PHL4 | Philippines | Yosef Alexander Oliveros Segotier
 | 26.8 | 29.4 | 56.2 | -0.213
 | 56 | 26.5 | 27.075
 | 54.75 | 0.192 | -0.544 | -1.260

 | 1.489 | -0.124
 | -0.040 | -0.254 | 47.464
 | Bronze |
| 135 | FIN1
ARM4 | Finland
Armenia | Nina Seidi Sofia Seppälä
Arman Havrapetvan
 | 27.8 | 30.4 | 58.2 | -0.018
 | 39.8
56.4 | 54.5
39.5 | 43.45
 | 21.5 | -0.873 | 0.882 | -0.285

 | -0.460 | -0.736
 | -0.239 | -0.258 | 47.422
 | Bronze |
| 130 | ROU4 | Romania | IUSTINA ROSU
 | 32.4 | 26.6 | 59 | 0.060
 | 57.8 | 18.5 | 36.225
 | 33.5 | 0.310 | 0.118 | -0.715

 | 0.243 | -1.113
 | -0.362 | -0.302 | 46.976
 | Bronze |
| 138 | BGD1 | Bangladesh | Rayan Rahman
 | 29.2 | 31.4 | 60.6 | 0.216
 | 44 | 23.5 | 36.75
 | 35.5 | -0.597 | -0.697 | -0.684

 | 0.361 | -1.618
 | -0.526 | -0.310 | 46.897
 | Bronze |
| 139 | EST2 | Estonia | Karl Valter Oja
 | 27.8 | 31.8 | 59.6 | 0.118
 | 54.8 | 36.5 | 33.275
 | 20 | 0.113 | -0.035 | -0.891

 | -0.548 | -1.361
 | -0.443 | -0.324 | 46.756
 | Bronze |
| 140 | SWE2 | Sweden | Tekla Nilsson
 | 33.6 | 26.4 | 60 | 0.157
 | 52.6 | 35.5 | 28.225
 | 25 | -0.032 | -0.086 | -1.192

 | -0.255 | -1.564
 | -0.509 | -0.351 | 46.485
 | Bronze |
| 141 | KGZ2 | Kyrgyzstan | Daniyar Iskenderovich Gaipov
 | 25.2 | 28.8 | 54 | -0.428
 | 42.6 | 42 | 60.35
 | 27.5 | -0.689 | 0.245 | 0.722

 | -0.108 | 0.170
 | 0.055 | -0.373 | 46.271
 | Bronze |
| 142 | PRT1 | Portugal | Tiago Miguel Gomes de Sousa
 | 28.6 | 31.8 | 60.4 | 0.196
 | 46.2 | 19.5 | 43.375
 | 27 | -0.453 | -0.901 | -0.289

 | -0.138 | -1.780
 | -0.579 | -0.383 | 46.173
 | Bronze |
| 143 | FIN2
ITA3 | Finland | Jenni Orvokki Ruokolainen
Francesco Petrone
 | 26.8 | 31.2 | 58.2 | -0.038
 | 39.2
52.4 | 33.5 | 43.9
 | 33.75 | -0.913 | -0.188 | -0.258

 | 0.258 | -1.100
 | -0.358 | -0.396 | 46.043
 | Bronze |
| 2 | CYP4 | Cyprus | Loukas lakovou
 | 26.8 | 23.2 | 50 | -0.818
 | 63.6 | 41 | 35.625
 | 45.5 | 0.691 | 0.195 | -0.751

 | 0.947 | 1.082
 | 0.352 | -0.466 | 45.336
 | Merit |
1.40	Difference in the second	- /F
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| 146 | BEL2 | Belgium | Loic Lucas ROCHET
 | 26.4 | 29 | 55.4 | -0.291
 | 47.8 | 47.5 | 42.3
 | 22.5 | -0.347 | 0.526 | -0.353

 | -0.402 | -0.577
 | -0.188 | -0.479 | 45.210
 | Merit |
| 146 | BEL2
LIE1 | Belgium
Liechtenstein | Loic Lucas ROCHET
Seraphim Joliat
 | 26.4
23.8 | 29
29 | 55.4
52.8 |
 | 212.17 | 12.5 |
 | 22.5
20 | -0.347
0.599 | 0.526 | -0.353

 | -0.402 | -0.577
 | -0.188
0.037 | -0.479
-0.508 | 45.210
44.917
 | Merit
Merit |
| 147
148 | LIE1
SYR4 | | Seraphim Joliat
LAWAND MOHAMED BAIRAM
 | 23.8
28.4 | 12.27 | | -0.291
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-0.057
 | 47.8 | 47.5 | 42.3
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26.875
 | 20
19 | | 0.271 | -0.209
-1.272

 | 10.00 | 0.113
 | | -0.508
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| 147
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LAWAND MOHAMED BAIRAM
Kez Matthew Ward
 | 23.8
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-1.563 | -0.209
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 | -0.548
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-0.709 | 0.113
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-2.593
 | 0.037
-0.470
-0.843 | -0.508
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LAWAND MOHAMED BAIRAM
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Greece | Seraphim Joliat
LAWAND MOHAMED BAIRAM
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Akaterin Karpouzi
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 | 0.037
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-0.358 | -0.508
-0.527
-0.530
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-0.539
-0.552
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Daniel Buines Roldán
Ana Bestrz Siba Buarque
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Ramsha Abdul Razak
Hameed
Jaefar Shameem
Suzzan Skrabalo
Oskar Brännholm
Syuzi Sahakyan
Azbek Ilyoa ugil Mukhtarov
Panagiots Trakas
NAZIRA AKRAKZODA
Alexandr Marta Senn
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206 ARM2 Armenia Yana Mkrtchyan 17.6 22.6 40.2 -1.774 34.8 47 27.925 45 -1.202 0.500 -1.210 0.9	-0.994	-0.323	-2.097	29.026
207 ZAF3 South Africa DANIEL VAN DEN HEEVER 25.8 18.8 44.6 -1.345 36.4 4 41.25 44 -1.097 -1.690 -0.416 0.8	-2.344	-0.762	-2.107	28.928
208 ZAF2 South Africa TARIKA HARILAL 22.8 21.8 44.6 -1.345 48.8 18.5 38.125 15.75 -0.282 -0.952 -0.602 -0.7	97 -2.633	-0.856	-2.201	27.990
209 KGZ1 Kyrgyzstan Alai Almazovich Almazov 21.2 24.4 45.6 -1.247 34 24 32.575 27 -1.255 -0.671 -0.933 -0.1	38 -2.997	-0.974	-2.222	27.781
210 LKA3 Srit Lanka Praveen Charuka Thennakoon 24 27.6 51.6 -0.662 30.6 2 23.55 18.25 -1.478 -1.792 -1.470 -0.6	51 -5.391	-1.753	-2.415	25.846
211 NGA1 Nigeria Paul Chinazaekpere Ugwu 26.8 21.4 48.2 -0.994 31.4 10 40.8 6.25 -1.426 -1.385 -0.443 -1.385	-4.607	-1.498	-2.492	25.080
212 SAU4 Saudi Arabia ALEEN OMAR BAHARAN 24 20.8 44.8 -1.325 38.4 15.5 42.175 4.5 -0.965 -1.104 -0.361 -1.4	-3.888	-1.264	-2.590	24.104
213 MDA1 Moldova Francesca Alexandrina Talmaci 25 19.6 44.6 -1.345 30.2 16 41.175 14 -1.505 -1.079 -0.420 -0.9	-3.904	-1.269	-2.614	23.856
214 PAK2 Pakistan Tabinda Javeed 24.4 22.8 47.2 -1.091 23.2 17.5 27.35 19 -1.965 -1.002 -1.244 -0.6	07 -4.818	-1.567	-2.658	23.419
215 TJK1 Tajikistan MUNAVVARKHON VALIEV 23 24.4 47.4 -1.072 35.4 2 35.2 9.25 -1.163 -1.792 -0.776 -1.1	78 -4.909	-1.596	-2.668	23.317
216 QAT3 Qatar Alghalya ABDULAZIZ Alhajri 19 20.8 39.8 -1.813 30.2 48.5 41.225 7.25 -1.505 0.577 -0.418 -1.2	-2.641	-0.859	-2.672	23.280
217 MNE1 Montenegro Anel Memić 21.4 22.2 43.6 -1.442 27.6 15.5 36.45 23.25 -1.104 -0.702 -0.3	-3.839	-1.249	-2.691	23.090
218 NGA2 Ngeria Al-qudus William Lawal 26.4 24 50.4 -0.779 26.4 14.5 13.625 3 -1.754 -1.155 -2.062 -1.5	45 -6.516	-2.119	-2.898	21.018
219 QAT2 Qatar Farah Mohamed Aladem 21.2 20.8 42 -1.599 34.8 16 36.55 9.25 -1.202 -1.079 -0.696 -1.1	78 -4.155	-1.351	-2.950	20.502
220 IRQ2 Iraq RASTI BAHMAN AHMED AHMED 21.8 20.2 42 -1.599 28 12 44.175 12.5 -1.649 -1.283 -0.242 -0.9	88 -4.161	-1.353	-2.952	20.482
221 ZAF1 South Africa MARIETJIE JEANNE CILLIERS 20.4 21.2 41.6 -1.638 31.8 24 31.025 10.75 -1.399 -0.671 -1.025 -1.0	90 -4.186	-1.361	-2.999	20.011
222 SAU3 Saudi Arabia ADNAN MOHAMMAD ALSADAH 22 19.2 41.2 -1.677 42.4 12 37.95 3.5 -0.702 -1.283 -0.613 -1.5	-4.113	-1.338	-3.014	19.859
223 MDA4 Moldova Maxim Varzari 19 20.4 39.4 -1.852 46.6 10 38.675 6.75 -0.426 -1.385 -0.569 -1.3	-3.705	-1.205	-3.057	19.430
224 CYP2 Cyprus Sotiris Christoforou 17 21 38 -1.989 35.2 17 37.775 15.75 -1.176 -1.028 -0.623 -0.7	97 -3.624	-1.179	-3.167	18.328
225 GRC4 Greece Michaela Konstantinidou 20.4 15 35.4 -2.242 32.8 22.5 48.925 12.25 -1.334 -0.748 0.041 -1.0	03 -3.043	-0.989	-3.232	17.682
226 GEO2 Georgia Archil Japharidze 17.4 19 36.4 -2.145 36 7 43 20.5 -1.123 -1.537 -0.312 -0.5	-3.491	-1.135	-3.280	17.200
227 UZB4 Uzbekistan Golibjon Gulomjonovich Sharifov 19.2 17.8 37 -2.086 42 20.5 19.625 21.25 -0.729 -0.850 -1.704 -0.4	-3.758	-1.222	-3.308	16.918
228 ARE3 United Arab Emirates Mozah Saeed Rashed Ali Aldhanhani 16.6 20.6 37.2 -2.067 33.4 14.5 32.125 7.25 -1.294 -1.155 -0.960 -1.2	96 -4.705	-1.530	-3.597	14.034
229 MNE2 Montenegro Jelena Sekulić 20.2 21.6 41.8 -1.618 25.4 4 12.7 21 -1.820 -1.690 -2.117 -0.4	90 -6.117	-1.989	-3.607	13.929
230 ARE1 United Arab Emirates Hudanaz Mushtag Ahmed Sange 19.8 19.6 39.4 -1.852 25.2 10 15.5 7.5 -1.833 -1.385 -1.950 -1.2	81 -6.449	-2.097	-3.949	10.508
231 GEO4 Georgia Nikolozi Arveladze 18.2 17.8 36 -2.184 19.8 11.5 16 17.5 -2.188 -1.308 -1.920 -0.6	95 -6.111	-1.987	-4.171	8.289
232 TJK3 Tajikistan DILDORA NAZIRBOBOEVA 16 17.2 33.2 -2.457 23.4 14.5 26.3 13.5 -1.952 -1.155 -1.307 -0.9	29 -5.343	-1.737	-4.194	8.057
233 ARE2 United Arab Emirates Sabah Khadhija Sheik Abdul Safur 14.8 18.6 33.4 -2.437 24.2 10 29.95 4.25 -1.899 -1.385 -1.089 -1.4	72 -5.844	-1.900	-4.338	6.621
234 GEO3 Georgia Daviti Giorgadze 16.4 16.8 33.2 -2.457 26.4 12.5 25.125 3.5 -1.754 -1.257 -1.377 -1.5	-5.904	-1.920	-4.377	6.233
235 ARE4 United Arab Emirates Almaha Saif Ahmed Kameel Alblooshi 15.4 15.8 31.2 -2.652 30.6 6.5 11.95 4.25 -1.478 -1.563 -2.162 -1.4				1.777
	98 -6.531	-2.124	-4.873	1.268
236 CYP1 Cyprus Anthia Orfanou 16.6 13.6 30.2 -2.750 13.2 18 22.5 5.5 -2.622 -0.977 -1.533 -1.3				-2.675

IBO 2022 MEDALS



IBO 2022 CERTIFICATES



THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD

CERTIFICATE OF PARTICIPATION

This is to certify that

AHMED OKLAH FARIS

from Qatar

participated in the 33rd International Biology Olympiad held in Yerevan, Armenia on July 10-18, 2022

as a jury member

Dr. Gayane Ghukasyan Chairwoman of the IBO 2022





THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD

CERTIFICATE OF PARTICIPATION

This is to certify that

Gaëtan Jougla

from

France

participated in the 33rd International Biology Olympiad held in Yerevan, Armenia on July 10-18, 2022 as an

observer

Dr. Gayane Ghukasyan Chairwoman of the IBO 2022





THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD

CERTIFICATE OF AWARD

This is to certify that

Koo Min Seo

from

Singapore

has been awarded a Gold Medal

at the 33rd International Biology Olympiad held in Yerevan, Armenia on July 10-18, 2022

Dr. Gayane Ghukasyan Chairwoman of the IBO 2022



8. LOGISTICS AND INFRASTRUCTURE

8.1 Accommodation

During the IBO week competitors and team guides were accommodated at Ani Grand Hotel, in Yerevan.

Jury members, observers and international advisors were accommodated at Ani Plaza Hotel in Yerevan. Jury sessions took place at the same hotel. The subgroup also conducted its sessions at Ani Plaza Hotel on July 5-10, 2022.

The jury room was located at the same hotel where the jury members stayed. The jury room was set up with two large screens showing the discussion progress. The seating arrangement of jury delegations was organized according to native languages as accepted in the previous IBOs. Each seat had a power supply for the jury members' laptops. There was a WiFi connection in the jury room available only for the jury members. In the jury room, IT volunteers were present to assist the jury members if needed.

During the IBO week participants experienced a variety of Armenian food and drinks. The food and beverage plan was developed based on the requirements mentioned on the registration form.



8.2 Transport

18 buses were rented to organize the transportation of the participants during the IBO 2022. A free of charge pick-up service from Zvartnots International Airport was offered for all participants even before the official arrival date. IBO 2022 volunteers met the participants at the airport and accompanied them to the hotels. The volunteers were holding a special sign with the IBO 2022 logo to be easily noted. All participating teams were offered to be transferred from the hotels to "Zvartnots" International Airport after the end of the Olympiad.





9. VOLUNTEERS

The IBO 2022 organizing committee started recruiting volunteers since April 2021. Cooperating with the faculties of Yerevan State University as well as through outsourcing, the IBO 2022 organizing committee recruited **147** volunteers. **77** volunteers were located at the students' hotel, among which **61** volunteers were the IBO guides accompanying the students, **23** volunteers were located at the exam venue, **30** volunteers in buses and **17** volunteers at the IT sector of the jury's hotel.












10. MEDIA AND PR

The IBO 2022 was the biggest event held in Armenia in 2022.

TV features, articles, press releases were made about the IBO 2022 before, during and after the Olympiad.

During the IBO week, the official website of Yerevan State University / ysu.am and the official YSU Facebook page published updates regarding the IBO 2022 activities.

The official website of the IBO 2022 / ibo2022.org was created in 2020. The website was used to provide information about Armenia, the IBO 2022 and the participation (accommodation, venues, visa requirements etc.). The information regarding the International group project, visa requirements and Covid requirements, as well as the practical information was sent to the coordinators through email as well, besides being published on the website.

Social media networks were used to keep in touch with the participants and make announcements.

We created Facebook and Twitter pages in 2020 and an Instagram page in 2022.

Informational posters about the Olympiad were placed In Yerevan, on Yerevan State University building, on the Sport and Concert Complex building, on the National Academic Theater of Opera and Ballet building and at the hotels of the Olympiad.

Daily newspapers covering the course of the Olympiad were printed and distributed to the participants.





About 500 students from 66 countries of the world arrived in Armenia on July 5 to participate in the 33rd International Biology Olympiad. At the largest airport in Armenia, Zvartnots, the participants were greeted by members of the organizing committee.



For the first time, Armenia is hosting a large number of participants in the International Olympiad (hosted by Yerevan State University) and it is unique in its kind. It was organized with the support of the Ministry of Education, Science, Culture, and Sports of the Republic of Armenia.

Department in organizing the Olympiad is great; in these pages, the information about Armenia and YSU, presented to you, was collected by the staff of the department, and the YSU photojournalist is the author of most of the colorful photos.

The Olympics started in Yerevan. It should be noted



that Yerevan has been the capital of the Republic of Armenia since 1918.



THE OPENING CEREMONY OF THE 33RD INTERNATIONAL BIOLOGY OLYMPIAD TOOK PLACE

The opening ceremony of the 33rd International Biology Olympiad took place in the concert hall of the Alexander Spendiaryan National Academic Opera and Ballet Theater. The event started with the presentation of the symbols of the Olympiad, the flag and the cup.

Representatives of the countries participating in the Olympiad entered the concert hall with a parade.

Arayik Harutyunyan, Chief of Staff to the Prime Minister gave the first speech, followed by speeches by Matsuda Ryoichi, Chairman of the International Biology Olympiad Association, Gayane Ghukasyan, Program Manager of the 33rd International Biology Olympiad, Vahram Dumanyan, Minister of Education, Science, Culture and Sports.

The graduates of the International Biology Olympiad also made a speech.



The audience was given the opportunity to "travel" through time through a hologram, greeted future biologists, wished success to the great 12th century great Armenian scientist, doctor, naturalist, philosopher Mkhitar Heratsi.

The solemn swearing-in ceremony of the members and participants of the Olympiad jury took place,





which was followed by a concert program organized by YSU Charles Aznavour Cultural Center (you can learn more about the center in our next issues). The pop-symphony orchestra of the Public Radio and Television of Armenia, whose artistic director is the People's Artist of the Republic of Armenia Yervand Yerznkyan, Sargis Bazhbeuk Melikyan (bass), the "Barekamutyun" dance ensemble with the number "Our Century" performed by the People's Artist Ani Haroyan performed the "Komitas" solo dance.



the department, and the YSU photofournalist is the author of most of the colorful photos.





Armenia has been a member of IBO since 2009 (in 2008 Armenia participated as an observer country). Since 2009, 35 Armenian students have participated in the IBO. During the IBO 2018 Tehran Olympiad, the IBO Association decided to confirm that the Republic of Armenia would officially host the 33rd International Biology Olympiad on July 10-18, 2022. Today, the first practical exam took place at the Karen Demirchyan Sports and Concert Complex, participants from 64 countries took part in it. According to the participants, the exam held in Yerevan passed with great discipline and was very





interesting. The anxiety among the participants increased during the break, and at the end of the exam, the students talked happily and joyfully with each other, discussing how they coped with their tasks. IBO participants were excited. Due to the location of the complex, the students had the opportunity to enjoy the beautiful view. They could see Mount Ararat and the Tsitsernakaberd Armenian Genocide Memorial. Before going to their hotel, the students took pictures with each other in that wonderful scene.





VISIT TO GARNI TEMPLE AND GEGHARD MONASTERY



The participants visited Garni temple and Geghard monastery. In Garni canyon, they studied stunning geological monuments, represented by columnar basalts, which are the result of lava flows.

They also visited the Garni temple, which towers over a triangular cape, which is the unique surviving example of heathen culture in Armenia. It is a blend of Greco-Roman and Armenian styles. After adopting Christianity in 301 A.D., the pagan temple lost its significance and the fortress of Garni became the summer residence of the kings. Nowadays the ruins of the royal palace and the bathroom with stunning mosaic work can be found near the temple. Geghard monastery is the unsurpassable masterpiece of 13th-century Armenian architecture. Visitors learned that from the outset the complex was called Ayrivank (cave monastery), later it was renamed Geghard (lance) as the lance, used by the roman soldier to sting Jesus Christ's side, had been kept in this monastery for many centuries. They stated that the complex is rich in subtle sculptural embellishments and many striking khachkars (cross-stones).





EXCURSION IN YEREVAN

THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD



THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD

THE LAST EXAM IS SUCCESSFULLY PASSED

The theoretical test was held at the Karen Demirchyan Sports and Concerts Complex in Yerevan on Thursday. The test was divided into two parts, and it was web-based. The six-hour test started at 9:00 and finished at 17:00. Each part of the theoretical test consisted of 50 questions and was implemented in accordance with the protocol. Each test lasted three hours. According to participants, the exams held in Yerevan are under great discipline.

After the end of the theoretical test, the students talked joyfully and excitedly with each other discussing the test and how they coped with it. Students had got closer compared to the first round of exam (practical) and different teams were in talks. The next step was the After Party at the same Complex in Yerevan. Thanks to the location of the Complex, students got a chance



to enjoy the beautiful view, as it seemed like they could hold the whole city in their hands. As it was a clear evening, they could see the Mount Ararat and Tsitsernakaberd Armenian Genocide Memorial Complex. Before going to their hotel, students took many photos of that sight.

"BIOEXPO" AT YSU



YSU Student Council is a student organization operating at YSU. One of the goals of this is to organize students' free leisure and recreation, to promote their scientific, educational, cultural, creative, and physical development, etc.

In April of this year, on the initiative of the Student Council of YSU Faculty of Biology, a two-day exhibition "BIO EXPO" was held. During the exhibition, the attendees witnessed several scientific experiments and had the opportunity to get acquainted with the research work carried out by the faculty, the latest equipment used in laboratory research, etc.

STUDENTS WITH DIFFERENT BACKGROUNDS AND INTERESTS FOUND A COMMON LANGUAGE



As we already know there were participants from more than 64 countries with different backgrounds, interests, cultural and national features. We managed to talk to some of the students. The first thing they mentioned about the Olympiad was the way it was organized. They appreciated the discipline, the way the exams were held, and the professional behavior of the professors, who introduced and prepared them for the upcoming exams.

One of the students mentioned how hard it was to

get selected as a participant in 33rd IBO, but as it is one of the biggest and most recognizable competitions, it was worth it. One of the students from Greece found some similarities between Armenians and Greeks as both nations are hospitable, have delicious cuisine, and have numerous ancient monuments. She pointed to the ancient monuments as she was interested in archeology as well, and in her free time, she was reading about the old countries and their cultural heritages, including Armenia.





THE PARTICIPANTS OF THE OLYMPIAD VISITED THE EREBUNI RESERVE-MUSEUM

Today the participants visited the "Erebuni" historical-archaeological reserve museum. Upon entering the museum, the participants of the Olympiad were surprised to see a building replicated in the Urartian palace structures of the Erebuni Museum. Then they toured the entire museum, exploring the museum's large collection. The participants viewed with great interest the archeological objects related to the pre-Urartian, Urartian, Achaemenid, Hellenistic, and early Armenian periods from the Arin Berd, Karmir Blur, Shengavit sites, as well as from the excavations in different regions of Armenia. Erebuni Museum was established in 1968. The opening of the museum was timed to coincide with the 2750th anniversary of Yerevan. The Museum stands at the foot of the Arin Berd hill, on top of which the Urartian Fortress Erebouni has stood since 782 BC.

The building of the Museum which houses 12,235 exhibits was constructed by architects Baghdasar Arzoumanian and Shmavon Azatian and sculptor A. Harutiunian. It has two branches in Shengavit and



Karmir Blur with 5,288 and 1,620 exhibits respectively in stock. The sculptural design of the museum is the history of the ancient state of Urartu, represented by plastic means of expression.

Geghard monastery is the unsurpassable masterpiece of 13th-century Armenian architecture. Visitors learned that from the outset the complex was called Ayrivank (cave monastery), later it was renamed Geghard (lance) as the lance, used by the roman soldier to sting Jesus Christ's side, had been kept in this monastery for many centuries. They stated that the complex is rich in subtle sculptural embellishments and many striking khachkars (cross-stones).

IBO 2022 YEARBOOKS



11. RISK MANAGEMENT

During the implementation of the Olympiad the IBO 2022 organizing committee faced the following risks:

1. Financial risk

The Armenian Ministry of Education, Science, Culture and Sports secured 800.000 USD in the beginning of the program.

2. Time scarcity risk

The participation fee is transferred to the host country only months before the Olympiad as accepted in the IBOs. To acquire all the necessary equipment, accessories, chemicals etc. the IBO 2022 organizing committee ordered everything required beforehand, relying on the money secured by the Ministry.

3. Pandemic risk

Considering the pandemic situation in the world, the IBO 2022 organizing committee understood the risk of an outbreak of the pandemic during the Olympiad. To minimize the risk of virus spread during the Olympiad, the organizing committee applied to the Armenian Ministry of Health asking for help to prevent the outbreak.

A related-information was sent to the team leader through email, was published on the website and flyers with this information were distributed among the participants during the Olympiad.



THE 33rd INTERNATIONAL BIOLOGY OLYMPIAD

10-18 JULY 2022

COVID-RELATED INFORMATION FOR PARTICIPANTS

During the International Biology Olympiad 2022, COVID-related measures are as follows:

- The medical ambulance is on duty every day.
- There are masks and alcogel in the jury's working hall and students' exam venue.
- Please, keep social distance in your turn.
- In case of feeling unwell, students should inform their guides, who will immediately inform the IBO 2022 Organizing Committee.
- In case of feeling unwell, jury members should inform the IBO 2022 Organizing Committee directly.
- Testing will be conducted upon request and free of charge.
- If a participant tests positive during the Olympiad, necessary supervision will be established by the medical health care organization closest to the jury's place of residence (Ani Plaza Hotel) and students' place of residence (Ani Grand Hotel).
- Infected participants will be isolated at the hotel.
 In case of complete vaccination, 7 days of self-isolation is required under medical supervision, in case of unvaccination, 10 days of self-isolation is required under medical supervision. During the period of self-isolation, on the 7th day after being tested positive for COVID-19, the unvaccinated participants may undergo, on their own initiative, a PCR test and in case of a negative result, get out of self-isolation.
- Infected participants will be treated free of charge.
- If the participants have to stay in Armenia due to COVID infection after the Olympiad, the host country covers the expenses ONLY IN CASE OF HOSPITALIZATION.

In spite of the prevention measures:

- **5** students out of **237** were infected during the Olympiad (2%).
- However, all the students managed to participate in the practical exam
- Only 1 student took the theoretical test at the hospital

4. Safety risk

To ensure the safety of all students, the organizing committee cooperated with the police, and during the exams, a group of policemen and ambulance were on duty.

- In general, there were about 20 ambulance calls. Besides the Covid cases, there were also cases of diarrhea caused by drinking too much water and eating lots of apricots.
- And finally, a Hungarian student had to undergo an urgent surgery of a hernia and returned back to her country in a good state of health.

Students With Special Health Requirements

- 1 color blinded participant was assisted by a volunteer
- 1 autistic participant was provided by psychological help
- 1 participant with broken arm was provided by a pillow for comfort

AFTER THE OLYMPIAD

- Post-Olympiad survey was done among volunteers to identify all organizational and health related problems.
- Certificates and yearbooks were sent to the team leaders.
- A final report was prepared.
- An after movie was created and uploaded on the IBO 2022 website (<u>https://www.ibo2022.org/en/mediabox/video-gallery</u>).

IBO 2022 ARMENIA FINAL REPORT

2023 Yerevan, Armenia