Ministry of Education and Science of the Russian Federation Society of Plant Physiologists of Russia M.K. Ammosov North-Eastern Federal University

# PROGRAM (preliminary)



III<sup>rd</sup> scientific-practical conference
"Prospects of phyto-biotechnology for improving the quality of life in the North" with international participation and a scientific school on cell biotechnology



4- 8 June, 2018 Yakutsk, the Republic of Sakha (Yakutia), Russian Federation

# **ORGANIZERS:**

M.K. Ammosov North-Eastern Federal University



Instritute of Natural Sciences



Society of Plant Physiologists of Russia



## PROGPAM COMMITTEE

The CHAIRMAN: <b>Evgenia Mikhailova</b> CO-CHAIRS:	genia Mikhailova Rector of NEFU, Academician of RAE, PhD, DSc.		
Konstantin Krivoshapkin	Head of Department - Vice Rector for	Yakutsk	
Vladimir Kuznetsov	Sciences and Innovation, PhD. Corresponding Member of the Russian Academy of Sciences (RAS), Chairman of the Society of Plant Physiologists of Russia, DSc, Prof.	Moscow	
Alexander Nosov	Head of the Department of Plant Moscow Physiology, Biological Faculty, Lomonosov Moscow State University (MSU), Head of the Department of Cell Biology and Biotechnology of Timiryazev Instritute of Plant Physiology RAS (TIPPh RAS), DSc, Prof.		
MEMBERS: Vasilii Savvinov	Vice-Rector of the NEFU for Strategic	Yakutsk	
Anatoly Nikolaev	Development, PhD. Vice-Rector of the NEFU in the branch of natural math, director of the Institute of Natural Sciences (INS) NEFU, DSc.		
Alexey Bessmertny	Director of the Arctic Innovation Center NEFU	Yakutsk	
Elena Lobakova	Professor of MSU, DSc.	Moscow	
Choon-Hwan Lee	Professor, Department of Molecular Biology, Pusan National University (PNU), PhD.	, <b>1</b>	
Ismayil Zulfugarov	Research Professor of Department of Molecular Biology PNU, PhD.	Pusan, Republic of Korea	
Su In Cho	Professor, Head of Department of Herbal and Pharmacology, School of Korean Medicine, PNU, PhD	Pusan, Republic of Korea	
Zhanna Okhlopkova	Associate Professor of INS NEFU, Scientific Adviser, Leading Researcher of Educational and scientific laboratory «Molecular genetics and cell technologies» (ESL «MG&CT») INS NEFU, PhD.	Yakutsk	
Nadezhda Chirikova	Leading Researcher of INS NEFU, PhD.	Yakutsk	
Sargylana Borisova	Deputy Director of the NEFU Botanical Garden, PhD.	Yakutsk	
Natalia Ivanova	Deputy Director of the NEFU Botanical Garden, PhD.	Yakutsk	

## **ORGANIZING COMMITTEE**

DEPUTY:Vasily KolodeznikovDeputy Director of INS NEFU, PhDYakutskZhanna OkhlopkovaAssociate Professor of INS NEFU, Yakutsk Scientific Adviser, Leading Researcher of ESL «MG&CT» INS NEFU, PhDYakutskЧЛЕНЫResearcher of ESL «MG&CT» INS NEFU, PhDYakutsk PhDSargylana AlekseevaResearcher of ESL «MG&CT» INS NEFU PhDYakutsk PhDAlexandra AndreevaPost-graduate student, Junior Researcher of Post-graduate student of MSUMoscowRoman GrigoryevPost-graduate student of TIPPh RASMoscowSardana SivtsevaJunior Researcher of ESL «MG&CT» INS Post-graduate student of TIPPh RASYakutsk NerGUElena KucharovaLead Engineer of ESL «MG&CT» INS NEFUYakutsk Platutsk NEFUSaiyyna IvanovaStudent of INS NEFU, group BO-14Yakutsk Vakutsk NEFUJuliana EgorovaStudent of INS NEFU, group BO-15Yakutsk Yakutsk MaO-17-2Akulina AlexandrovaGraduate student of INS NEFU, group BO-15Yakutsk Yakutsk MaBO-17-2Julustan PopovGraduate student of INS NEFU, group YakutskYakutsk Yakutsk	The CHAIRMAN: Anatoly Nikolaev	Vice-Rector of the NEFU in the branch of natural math, director of INS NEFU, DSc	Yakutsk
Zhanna OkhlopkovaAssociate Professor of INS NEFU, Scientific Adviser, Leading Researcher of ESL «MG&CT» INS NEFU, PhDYakutskUJIEHЫKesearcher of ESL «MG&CT» INS NEFU, PhDYakutskMaria KhandyResearcher of ESL «MG&CT» INS NEFU, YakutskSargylana AlekseevaPost-graduate student, Junior Researcher of MSUYakutskSargylana AlekseevaPost-graduate student of MSUMoscowAlexandra AndreevaPost-graduate student of TIPPh RASMoscowRoman GrigoryevPost-graduate student of TIPPh RASMoscowSardana SivtsevaJunior Researcher of ESL «MG&CT» INSYakutskElena KucharovaLead Engineer of ESL «MG&CT» INSYakutskNEFUSaiyyna IvanovaStudent of INS NEFU, group BO-14YakutskDariya SemenovaStudent of INS NEFU, group BO-15YakutskUliana EgorovaStudent of INS NEFU, group BO-15YakutskAina VinokurovaStudent of INS NEFU, group BO-15YakutskNana KirillinaGraduate student of INS NEFU, groupYakutskM-BO-17-2Julustan PopovGraduate student of INS NEFU, groupYakutsk	DEPUTY:		
Scientific Adviser, Leading Researcher of ESL «MG&CT» INS NEFU, PhDЧЛЕНЫMaria KhandyResearcher of ESL «MG&CT» INS NEFU, Yakutsk PhDSargylana AlekseevaPost-graduate student, Junior Researcher of ESL «MG&CT» INS NEFUAlexandra AndreevaPost-graduate student of MSURoman GrigoryevPost-graduate student of TIPPh RASMoscowRoman SrigoryevPost-graduate student of TIPPh RASMoscowSardana SivtsevaJunior Researcher of ESL «MG&CT» INS 	Vasily Kolodeznikov	Deputy Director of INS NEFU, PhD	Yakutsk
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Julustan PopovGraduate student of INS NEFU, groupYakutsk	Akulina Alexandrova	Graduate student of INS NEFU, group	Yakutsk
	Julustan Popov		Yakutsk

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## LOCATION

Yakutsk, Republic of Sakha (Yakutia), Russian Federation, NEFU.

## Program

III<sup>rd</sup> scientific-practical conference "Prospects of phyto-biotechnology for improving the quality of life in the North" with international participation and a scientific school on cell biotechnology (Yakutsk, NEFU, 4- 8 June, 2018)

TimeEventLocation3-4 JuneArrival, meeting, accommodation of invited scientists and participantsHotels in Yakutsk, Campus NEFU09:00-10:00RegistrationHall on the 1str f «ULK» (Belinskogo Str., 5)09:00-13:00Exhibition of manufacturing companies and suppliers of laboratory and educational equipment in the field of molecular and cell biotechnologyHall of the Acc Council of the	floor of NEFU 58) floor of NEFU 58)		
scientists and participantsCampus NEFU09:00-10:00RegistrationHall on the 1str f «ULK» (Belinskogo Str., 5)09:00-13:00Exhibition of manufacturing companies and suppliers of laboratory and educational equipment in the field of molecular and cell biotechnologyHall on the 1str f «ULK» (Belinskogo Str., 5)10.00-10:55CONFERENCE OPENINGHall of the Action	floor of NEFU 58) floor of NEFU 58)		
09:00-10:00       Registration       Hall on the 1str f         09:00-10:00       Registration       Hall on the 1str f         09:00-13:00       Exhibition of manufacturing companies and suppliers of laboratory and educational equipment in the field of molecular and cell biotechnology       Hall on the 1str f         10.00-10:55       CONFERENCE OPENING       Hall of the Action	NEFU 58) floor of NEFU 58)		
09:00-13:00       Exhibition of manufacturing companies and suppliers of laboratory and educational equipment in the field of molecular and cell biotechnology       WLK» (Belinskogo Str., 5)         10.00-10:55       CONFERENCE OPENING       Hall of the Action	NEFU 58) floor of NEFU 58)		
09:00-13:00       Exhibition of manufacturing companies and suppliers of laboratory and educational equipment in the field of molecular and cell biotechnology       WLK»         10.00-10:55       CONFERENCE OPENING       Hall of the Action	58) floor of NEFU 58)		
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	NEFU.		
1str floor of <	«ULK»		
NEFU (Belinskog			
58)	50 200,		
Plenary reports			
Vladimir Kuznetsov (Russia, Moscow), Hall on the 1str f	floor of		
11:00-11:40 Corresponding Member of RAS <b>«Physiological</b> «ULK»	NEFU		
	mechanisms of plant adaptation» (Belinskogo Str., 58)		
	Alexandr Nosov (Russia, Moscow), DSc, Professor		
	«Cell Technologies: Present and Prospects»		
Ŭ Î	Choon-Hwan Lee (Republic of Korea, Pusan),		
	PhD, Professor «Molecular Biotechnology in		
Korea»			
13:00-14:00Lunch breakULC Canteer	en		
Plenary reports			
14:00-14:40 Elena Lobakova (Russia, Moscow) DSc, Professor Hall of the Act	cademic		
«Practical application of biotechnologies on the Council of the	NEFU,		
	«ULK»		
	go Str.,		
<b>Bioengineering of Lomonosov Moscow State</b> NEFU (Belinskog	-		

# 4 June (Monday)

14:40-15:20	Ismayil Zulfugarov, Research Professor (Republic	Hall of the Academic
	of Korea, Pusan) «Stress-adaptive potential of	Council of the NEFU, 1 <sup>st</sup>
	plants»	floor of «ULK» NEFU
15:20-16:00	Nadezhda Chirikova (Russia, Yakutsk), Leading	(Belinskogo Str., 58)
	Researcher, PhD «Phytochemical research of	
	Yakutia wild plants»	
16:00-16:20	Coffee break	
16:20-17:00	Su In Cho (Republic of Korea, Pusan), Professor,	
	PhD. «Innovations in the plant studies»	
17:00-17:40	Zhanna Okhlopkova (Russia, Yakutsk), Leading	
	Researcher of ESL «MG&CT» INS NEFU, PhD.	
	«Prospects for biotechnology in the North»	
19:00	WELCOME PARTY	Banquet hall «KFEN»

# 5 June (Tuesday)

5 June (Tuesday)			
Time	Event	Location	
Sectional meetings			
10.00.11.20	Section 1. Plant Biotechnology	Lecture room 263 «KFEN»	
10:00-11:30	Oral reports of SPC participants	(Kulakovskogo Str., 48)	
11.30-11.45	Coffee break		
11:30-13:00	Section 1. Plant Biotechnology	Lecture room 263 «KFEN»	
	Oral reports of SPC participants	(Kulakovskogo Str., 48)	
13:00-14:00	Lunch break	Столовая КФЕН	
	Scientific School on Cell Biotechnology		
14:00-15:30	Act lecture « <b>Plant cell culture</b> »	Lecture room 263 «KFEN»	
	Lecturer: DSc, Professor Alexander Nosov	(Kulakovskogo Str., 48)	
15:30-16:00	Coffee break, transfer to another building		
16:00-17.30	Practice «Plant cell culture»	Lab. 502 ESL «MG&CT»	
	Lecturer: DSc, Professor Alexander Nosov	(the Arctic Innovation	
		Center NEFU,	
		Kulakovskogo Str., 46)	
14:00-17:30	Excursion for the delegation of scientists to the	Merzlotnaya Str., 36	
	Melnikov Instritute of Permafrost on the behalf	- · · ·	
	of SB RAS.		
	Accompanying: conference organizers		
18:00	Excursion for the delegation of scientists to	Kirova Str., 12	
	Comdragmetall of RS(Y).		
	Accompanying: conference organizers		

6 June (Wednesday)				
Time	Event	Location		
Sectional meetings				
10:00-11:30	<b>Section 2. Plant resources and their potential</b> Oral reports of SPC participants	Lecture room 263 «KFEN» (48 Kulakovskogo str.)		
11.30-11.45	Coffee break			
11:30-13:00	Section 2. Plant resources and their potential Oral reports of SPC participantsLecture room 263 «KFF (48 Kulakovskogo str.)			
13:00-14:00	Lunch break	Столовая КФЕН		
	Scientific School on Cell Biotechnolog	y		
14:00-15:30	Act lecture <b>«Biotechnology of cyanobacteria»</b> Lecturer: DSc, Professor <b>Elena Lobakova</b>	Lecture room 263 «KFEN» (48 Kulakovskogo str.)		
15:30-16:00	Coffee break, переход в друго	й корпус		
16:00-17.30	Practice <b>«Biotechnology of cyanobacteria»</b> Lecturer: DSc, Professor <b>Elena Lobakova</b> Lecture room 263 «KI (48 Kulakovskogo str.)			
14:00-17:30	Excursion for the scientists delegation to the Medical clinic of NEFU, laboratories of the Arctic Innovation Center NEFU Accompanying: conference organizers and members of the program committee36 Kulakovskogo str.			
18:00	Excursion for the scientists delegation to the ethnographic complex «Chochur Muran» Accompanying: conference organizersChochur-Muran, Vilyuysky tract			

# 7 June (Thursday)

Time	Event	Location
Scientific School on Cell Biotechnology		
10:00-11:30	Act lecture «Anti-cancer potential of plants».	Lecture room 263 «KFEN»
	Lecturer: Professor, PhD Su In Cho	(48 Kulakovskogo str.)
11:30-11:45	Кофе брейк	
11:45-13:00	Act lecture «Molecular biotechnology of Lecture room 263 «KFEN»	
	plants». (48 Kulakovskogo str.)	
	Lecturer: Professor, PhD Ismayil Zulfugarov	
13:00-14:00	Lunch break Столовая КФЕН	
Scientific School on Cell Biotechnology		
14:00-15:30	Act lecture of sponsor representatives of the	
	event on the possibilities of modern cell and (48 Kulakovskogo str.)	
	molecular technologies	
15:30-16.00	Кофе-брейк	
16.00.17.00		
16:00-17:30	Master Class «Molecular biotechnology of	Lab. 242 ESL «MG&CT»
	plants».	(«KFEN», 48
	Lecturer: Professor, PhD Ismayil Zulfugarov Kulakovskogo str.)	

Excursion for the delegation of scientists to the Yakutian Botanical Garden	10 km Sergelyakhskoye highway
Accompanying: conference organizers	
Excursion for the delegation of scientists to the	«KFEN», 48 Kulakovskogo
Mammoth Museum	str.
Accompanying: conference organizers	
	Yakutian Botanical Garden Accompanying: conference organizers Excursion for the delegation of scientists to the Mammoth Museum

# 8 June (Friday)

Time	Event	Location
Scientific School on Cell Biotechnology		
10:00-11:30	Act lecture <b>«Plant secondary metabolism»</b>	Lecture room 263 «KFEN»
11 20 11 45	Lecturer: PhD Dmitry Kochkin	(48 Kulakovskogo str.)
11:30-11:45	Coffee break	
11:45-13:00	Practice <b>«Plant secondary metabolism»</b>	Lab. 502 ESL «MG&CT»
	Ведущий: PhD Dmitry Kochkin	(the Arctic Innovation
		Center NEFU, 46
		Kulakovskogo str.)
10:00-13:00	Program for invited scientists: meeting with the	«ULK» 58 Belinskogo str.
	Rector of the NEFU Eugenia Mikhailova	
13:00-14:00	Lunch break	
14:00-15:30	Meeting of the Program Committee,	Lab. 281 ESL «MG&CT»
	consideration and approval of the resolution of («KFEN»,	
	the event, preparation of documents, signing of Kulakovskogo str.)	
	contracts	
16:00-17.00	CONFERENCE CLOSING	Lecture room 263 «KFEN»
	(48 Kulakovskogo str.)	
		(
18:00-21:00	Gala dinner « CONFERENCE CLOSING »	«Makhtal» - restraurant of
		the Yakut cuisine (2 Kirova
		str.,)
0 June (Seturdev)		

## 9 June (Saturday)

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Time	Event	
04.00-18.00	Departure of invited scientists and conference participants	

N₂	Section of the scientific school	Lecturer
1	«Plant cell culture», Lecture & Practice	Head of the Department of Plant Physiology, Biological Faculty MSU, Head of the Department of Cell Biology and Biotechnology of TIPPh RAS, DSc, <b>Professor Alexander Nosov</b>
2	«Biotechnology of cyanobacteria», Lecture & Practice	Professor of MSU, DSc Elena Lobakova
3	«Plant secondary metabolism», Lecture & Practice	Senior Researcher of the Department of Plant Physiology, Biological Faculty MSU, <b>PhD Dmitry</b> <b>Kochkin</b>
4	«Anti-cancer potential of plants», Lecture	Professor, Head of Department of Herbal and Pharmacology, School of Korean Medicine, PNU, <b>PhD Su In Cho</b>
5	«Molecular biotechnology of plants», Lecture & Mastrer Class	Research Professor of Department of Molecular Biology PNU, <b>PhD Ismayil Zulfugarov</b>

# Speakers of the scientific school:

### **Brief description of the cultural attractions of Yakutia**

### Museum of Precious Metals or Treasury Republic of Sakha (Yakutia)

Address: Republic of Sakha (Yakutia), Yakutsk, Kirova str., 12, 123.

The treasury of the Republic of Sakha Yakutia is an integral part of the State's Fund for Precious Metals and Precious Stones of the Republic of Sakha (Yakutia). A part of Treasury values is exhibited for public display at the always open exhibition "Treasury of the Republic of Sakha (Yakutia)".

The exhibition "Treasury of the Republic of Sakha (Yakutia)" provides an opportunity to get acquainted with the unique collection of nuggets of gold, platinum, silver, large natural diamonds, a fine collection of works by Yakut masters - jewelers, cutters, bone and stone carvers.

The exhibition "Treasury of the Republic of Sakha (Yakutia)" and the preservation of exhibits is carried out by the state institution "State Depository of the Sakha Republic (Yakutia)."

### Ethnographic complex «Chochur Muran»

Address: Republic of Sakha (Yakutia), Yakutsk, Vilyuysky tract, 7 km, 5.

Ecological and ethnographic complex "Chochur-Muran" was created as some sort of a tribute to the first Russian researchers of the Trans-Urals. The complex was opened in 2005 and is located beyond the city borders of Yakutsk, at the foot of the hill. It represents an area with several restored wooden buildings of different purposes. There are a lot of interesting things: for example, a merchant's house with a completely original interior and a beautifully carved window frames or barn, built according to the prototype of the barn of the same merchant (unluckily, the original building was not subject to restoration). The barn is also preserved original interior, and it, like other buildings on the territory of the complex, is now serves as a hotel with all amenities. Also interesting is the cottage of the rider (rider of sled dogs) and the magnificent house of the hunter - magnificent not in terms of size or splendor, but in the sense of the abundance of trophies that can be seen here.

### The Mammoth Museum

Address: Republic of Sakha (Yakutia), Yakutsk, Kulakovsky str., 48, KFEN.

The establishment of the World Mammoth Museum in 1991 as a scientific and cultural center for the study of the mammoth fauna and its habitat and the promotion of scientific knowledge was initiated by the first Yakut paleontologist Petr Alekseyevich Lazarev. In 1995, in order to strengthen the scientific research, the Museum became a part of the Academy of Sciences of the Republic of Sakha (Yakutia), and was renamed to the Mammoth Museum. In July 1998, according to the Ordinance of the Presidium of the Academy of Sciences of the Republic of Sakha (Yakutia), the Museum was attached to the Institute of Applied Ecology of the North of the Academy of Sciences of the Republic of Sakha (Yakutia), the Republic of Sakha (Yakutia) as a structural unit. In 2011, the Mammoth Museum, as part of the Institute, also became a part of M.K. Ammosov North-Eastern Federal University.

On September 14, 2012, by the Order of NEFU Rector E.I. Mikhailova, the Mammoth Museum Laboratory was named after its founder, Candidate of Biological Sciences, the winner of Prize of the Republic of Sakha (Yakutia) in the field of Science and Technology, Honored Scientist of the Republic of Sakha (Yakutia), Honored Veteran of the SB of RAS, Lazarev Petr Alekseyevich.