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المؤتمر العربي الأسيوي السنوي للتقانات الحيوية: التقانات الحيوية الصحراوية وإستدامة الحياة في المناطق القاحلة

Partnership and Cross-Border Research Shaping the Future of Global Biotechnology

5-6 November 2025





Bibliotheca Alexandria, Egypt



Conference **Program**







CONFERENCE PROGRAM



WEDNESDAY- THRUSDAY 5-6 NOVEMBER, 2025 BIBLIOTHECA ALEXANDRIA, EGYPT

9:00 - 11:00

Registration and Welcome Coffee

Day 1: Wedne	sday, 5 November 2025 Lecture room (Main) 11:00 - 12:00						
Opening cermony	Presenter of the opening ceremony: Dr. Nehal Sameh Ramadan						
Addresses by							
11:00 - 11:05	Prof. Ahmed Zayed Director Ribliotheca Alexandrina Egypt						
11:05 - 11:08	Director, Bibliotheca Alexandrina, Egypt Prof. Nabila Abdel Maksoud,						
11:05 - 11:06	Co-chairwoman and Secretary General of the ASGEB, Egypt						
11:08 - 11:11	Prof. Rasha Al-Tarawneh,						
	Co-chairwoman and Dean of the Faculty of Agricultural Technology, Al Ahliya University,						
	Jordan						
11:11 - 11:15	Prof. Pallu Reddanna						
	Conference Honorary Chairman and Executive President, Federation of Asian Biotech						
	Associations (FABA), India						
11:15 - 11:20	Prof. Mahmoud M. Sakr						
11:20 - 11:25	Conference Chair, Chairman of the BOD ASGEB, and Former President of ASRT, Egypt Prof. Tamer Samir Mahmoud						
11.20 11.20	President, Benha National University, Egypt						
11:25 - 11:30	Prof. Adel Abdelazim						
11.20	President, Agricultural Research Centre (ARC), Egypt						
11:30-11:35	Prof. Hossam Shawky						
	President, Desert Research Center (DRC), Egypt						
11:35-11:40	Prof. Mamdouh Moawad Ali						
	President, National Research Centre (NRC), Egypt						
11:40-11:45	Prof. AbdulHakim Elwaer						
	Assistan Director General of FAO for the Near East and North Africa Region and OIC for FAO						
11 45 11 50	Representative in Egypt						
11:45-11:50	Prof. Hesham Azmy						
11:50-11:55	President, Egyptian Intellectual Property Authority (EGIPA), Egypt Counsellor Ms. Amal Ammar						
11.00-11.00	President, National Council for Women, Egypt						
11:55- 12:00	H.E. Prof. Manal Awad						
	Minister of Local Development and Acting Minister of Environment, Egypt						
	1 0 7 371						
Day 1: W	ednesday, 5 November 2025 Lecture room (Main) 12:00 - 14:00						
Plenary Session I	Desert Biotechnology and Arid Zone Innovations						
Chair	persons Prof. Adel El-Beltagy Prof. Ismail Abdel Galil Prof. Megahed Ammar						
12:00 - 12:25	Prof. Andreas Börner (Germany) Online						

12:00 - 12:25

Prof. Andreas Börner (Germany) Online
Plant Genetic Resources for Food and Agriculture – An Important Basis for Breeding and Research
Prof. Nigel G. Halford (England) Online
Field trials of low asparagine, low acrylamide wheat, produced using CRISPR or chemical mutagenesis: Europe's first field trials of genome-edited wheat
Prof. Adel El-Beltagy (Egypt)
Navigation through Uncertainties: The Role of Science in Improving the Livelihood of the Dry Areas Inhabitants
Prof. Hanan Issa Malkawi (Jordan)
Space Biotechnology: Microorganisms' Adaptation and Resilience in Outer Space and Extreme Environments

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Day 1: We	dnesday, 5 November 2025 Multipurpose room 12:00 - 14:00						
Workshop I	Recent Advances in Biotechnology for Health Care and Medicine I						
	Coordinators: Prof. Nabila Abdel Maksoud, Prof. Doaa Ghareeb						
Chair	Chairpersons Prof. Ghada El-Kamah Prof. Osama Azmy Prof. Nabila Abdel Maksoud						
12:00 - 12:15	Prof. Khaled Amer (Egypt)						
12:15 - 12:30	Egypt Genome Review and Update						
12:15 - 12:50	Prof. Sameh Saad Ali (Egypt) Genotype-to-Phenotype Transitions in Neuromuscular Diseases: NGS Meets Mitochondria						
12:30 - 12:45	Prof. Osama Azmy (Egypt)						
12:45 - 13:00	Molecular Aspects of Fertility Boosters Prof. Mohamed Aly Mokhles (Egypt)						
	Genetic Polymorphisms in Metabolically Associated Steatotic Liver Disease MASLD						
13:00 - 13:15	Prof. Hussein Sabit (Egypt) Cross Vingdom Enigenetics, Mining Desert Adoptation for Concer Piemarkers, Therapeutics						
	Cross-Kingdom Epigenetics: Mining Desert Adaptation for Cancer Biomarkers, Therapeutics and Sustainable Biotechnology						
13:15 - 13:30	Prof. Sondos Salem (Egypt)						
13:30 - 13:45	Epigenetic Signatures of Maternal Iron Stores on Offspring Health Outcomes Ass. Prof. Ahmed I. AboAhmed (Egypt)						
15.50 15.40	Inter-Tissue Crosstalk in the Pancreas Through CCL5-GPR75 Axis Promotes Endocrine β-						
	Cell Expansion						
14:00 - 14:15	Conference Group Photo						
14:00 - 15:00	Lunch break						
Day 1: Wed	nesday, 5 November 2025 Lecture room (Main) 15:00 - 17:00						
Workshop II	Ancient DNA: Evolution and Unlocking Secrets						
	Coordinators: Dr. Nehal Sameh Ramadan, Mr. Mohammad Abdel-Sattar						
Chairp	Prof. Yehia Gad Prof. Abdel Fattah Badr Prof. Mats Hansson						
15:00 - 15:20	Prof. Yehia Gad (Egypt)						
	Ancient DNA analysis of Egyptian biological remains Prof. Mats Hansson (Sweden)						
15:20 - 15:40	Exploring a historic barley mutant collection for gene identification						
15:40 - 16:00	Prof. Medhat A. Ibrahim (Egypt)						
	Technologies Applied for Cultural Heritage: Molecular Modeling and Spectroscopy for Coptic						
16:00 - 16:20	Icons as a Case Study Prof. Mahmoud Bahgat (Egypt)						
20.00 20.20	Bio-molecular Characterization of Mummification Ingredients: Lessons Learnt for Our						
	Contemporary Life						
16:20 - 16:30	Dr. Nehal Sameh Ramadan (Egypt)/ Flash Talk						
	Understanding Ancient Dietary Habits through Multi-Omics Approaches in Archaeological and Archaeobotanical Remains Analyses						
16:30 - 16:40							
	Wil. Essair rumica sommarriy (Egypt)/ Trasir raik						
	Archaeobotanical Plants: A Bridge Between Ancient Life and Modern Biotechnological Applications						

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Day I: W	/ednesday, 5 November 2025 Multi	purpose room	15:00 - 17:00				
Workshop III	Nanobiotechnology						
	Coordinators: Prof. Magdy I	El Sayed, Dr. Nihal Al	nmed El-Mehalawy				
Chairp	nairpersons Prof. Moataza Omran Prof. Manal Ramadan Prof. Murad Al-						
15:00 - 15:15	Prof. Manal Ramadan (Egypt)						
1212 1200	Nano/Microencapsulation for Sustainable Food Systems						
15:15 - 15:30	Dr. Azza Mohamed Marei (Egypt) Oxidative Stress and Antioxidant Biotechnologies in Desert Life Sustainability						
15:30 - 15:45	Dr. Nihal Ahmed El-Mehalawy (Egypt)	lologies ili Desert Life	Sustamaomity				
20.00	Fabrication of Bioceramic Composites bas	ed on Anorthite and	3-TCP from Natural Resources				
	for Biomedical Applications						
15:45 - 16:00	Dr. Hanan Hassan Khalil Shaat (Egypt)	. (011 - 11	11 10 1 D . C D' .				
	Microfluidic-Based Fluorescence Enhance Detection and Quantification of Unamplif						
16:00 - 16:15	Ass. Prof. Eman Mahmoud Mohammed (E		cai Samples				
10.00 10.15	A Comparison of Silica and Natural Algina	~ ,	o Biogenic Hydroxyapatite				
	Injectable Hydrogel for Repairing Bone De						
16:15 - 16:30	Ass. Prof. Mona Sayed Ahmed Mohamed (Development of Bioceramic Composites for		ranatita and Cilicata Materiala				
	for Bone Regeneration	OIII Naturai Hyuroxy	apatite and sincate Materials				
Day 1: Wedi	nesday, 5 November 2025 Lecture roo	om (main)					
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Public Keynote	Lecture Moderator: Dr. Marwa	El Wakeel (Bibliotheca	a Alexandrina)				
17:30-18:30	Prof. Nabil Abdel Maksoud (Egypt)	Trend Trap: The New	Wave of Drugs and Its Impact				
	Prof. Clinical Toxicology and on Youth Health						
	Addiction Medicine, Faculty of	مخدرات وتأثيرها على	فخ الترند: الموجة الجديدة من ال صحة الشباب				
Day 9. Thus	Addiction Medicine, Faculty of Medicine, Cairo University, Egypt		صّحة الشباب				
	Addiction Medicine, Faculty of Medicine, Cairo University, Egypt rsday, 6 November 2025 Lecture roo	om (Main)	صّحة الشباب 9:30 – 11:30				
Day 2: Thu Workshop IV	Addiction Medicine, Faculty of Medicine, Cairo University, Egypt	om (Main)	صّحة الشباب 9:30 – 11:30				
	Addiction Medicine, Faculty of Medicine, Cairo University, Egypt rsday, 6 November 2025 Lecture roo	om (Main) Advances in Geno	صحة الشباب 9:30 - 11:30 me Editing				
	Addiction Medicine, Faculty of Medicine, Cairo University, Egypt CRISPR and Beyond: Coordinators: Ass. Prof. I	om (Main) Advances in Geno	صحة الشباب 9:30 - 11:30 me Editing				
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Day 2.	Thursday	6	Novem	her	2025
Day 4.	Illuisuay	, U .	TACACITI	DCI	4040

Multipurpose room

09:30 - 11:30

Workshop VII	Bioeconomy: Microbial, Environmental, and Industrial Biotechnologies					
, , , , , , , , , , , , , , , , , , ,	Coordinators: Prof. Mohamed Matter, Ass. Prof. Rasha Sabry					
Chairpe	rsons	Prof. Hanan Issa M	alkawi	Prof. Moustafa El-Sh	eekh Prof. Ashraf Samy	
09:30-09:50	Prof. Hesham A. El Enshasy (Malaysia) Translational Passayah and Innovation in Piatachnology Industries					
09:50-10:10	Translational Research and Innovation in Biotechnology Industries Prof. Mostafa El-Sheekh (Egypt) Bioenergy from Algae and Agricultural Wastes as Sustainable and Renewable Energy					
10:10-10:20	Ass. Prof. Amira Mohammed-Roshdy Ibrahim (Egypt) /Flash Talk Recycling of Chrome-Treated Leather Industry Waste					
10:20-10:30	Dr. An	nira Taha Mohamme	d Hussien (Egypt) /Flash Talk	re Sustainable Develonment	
10:30-10:40	Solid State Fermentation as a Biotechnological Tool to Achieve Sustainable Development Dr. Hadeer Abd. El-khalek Mahmoud (Egypt) /Flash Talk From Orange Waste to Wellness: A Sustainable Bioeconomic Strategy for Producing					
10:40-10:50	Therapeutic Xylooligosaccharides Ass. Prof. Mohamed Ewas El-Metwaly Hamad (Egypt) /Flash Talk Next-Generation Sequencing (NGS) RNA-Seq: A Three-Sided Story to the Biosystematic Revision of Genus Datura Reveals Novel Tropane Alkaloids for the First Time in Certain					
10:50-11:00			· ·	hamed (Egypt) /Flash 1 d Future Prospects.	Falk	
11:30 - 12:30			Coffee	break		
Day 2: Thursday, 6 November 2025 Lecture room (Main) 12:00 – 14:00						
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Workshop VI				and Biotechnology of		
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Chairper 12:00-12:15 12:15-12:30 12:30-12:45	Prof. K Model: Cell Tit Ass. Pr Medici Prof. M Compa Evolut taxa Ass. Pr Ensuri Vouch Ass. Pr Effects	Plant Molecular Coordinate Prof. Nahla Abdel A Calina Danova (Bulgating Secondary Metassue and Organ Cultary Molecular Cof. Samia Dabbou (Total Plants of Arid Ref. Mohamed Hamdy Andrative Genomic Androna Company Cof. Mona Osama El Sang Taxonomic Fidering Cof. Mai Farid (Egyptes Of Trigonella Foer	Farming a cors: Ass. Proceeding Proceedings Procedure of Medicunisia) regions: Chemar (Egypt) regions: Highed Wild Egypt Procedure of Medicunisia) regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure of Medicunisia regions: Chemar (Egypt) red Wild Egypt Procedure regions: Chemar (Egypt) red Will Egypt Procedure regions: Chemar (Egypt) red Will Egypt Procedure regions: Chemar (Egypt) red Will Egypt Procedu	and Biotechnology of of. Mai M. Farid, Ms. Enf. Mohamed Matter duction and Biological cinal and Aromatic Plantical Profiling and AI I shlight Genomic Structure (apptian Species: A Case Egypt) at a Integrity in Applied the Seeds Extract on the structure of the seeds	Ass. Prof. Elsayed Nishawy Ass. Prof. Elsayed Nishawy Activity in Conventional Plant and of The Balkans Insights from Research Ctural Variation, Diversity, and Study in the Egyptian Capparis and Phytochemistry via Identity Alzheimer's Disease Transgenic	
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Day 2: Th	nursday, 6 November 2025	Multipurpose room	12:00 - 14:00				
Workshop V	Orkshop V Better Plant Molecular Breeding for Better Food Security Coordinators: Ass. Prof. Helmy Youssef, Dr. Radwa Youssef						
Chairper	Chairpersons Prof. Jutta Papenbrock Prof. Maher Maghraby Prof. Reda Gaafar						
12:00-12:15	Prof. Jutta Papenbrock (German Combining Basic and Applied Tolerant Plants for More Resilie	Research, Focusing on Glucosi	inolate Metabolism and Salt-				
12:15-12:30							
12:30-12:45	Prof. Abdel Fattah Badr (Egypt) Genes of Plant Genetic Resource	es for Adapting Crop Plants to (Climate Change				
12:45-13:00	Ass. Prof. Olivier van Aken (Sweden) The Molecular Basis and Potential Applications of Mechanical Signaling in Plants						
13:00-13:15							
13:15-13:30	Dr. Hend Mandour (Egypt) Genetic Variation in Transparent Agronomic, Physiological, and	-					
Day 2: T	hursday, 6 November 2025	Small Theater	12:00-14:00				

Day 2: 11	hursday, 6 November 2025 Small Theater	12:00-14:00				
Workshop VIII:	Recent Advances in Biotechnology for Health Care and Medi	cine II				
	Coordinators: Prof. Ayman Samir, Ass. Prof. Mahmoud Sh	ehata				
Chairp	persons Prof. Hussein Sabit Prof. Doaa Ghareeb Prof. Ayman S	S. Farid				
12:00-12:15	Prof. Soha M. Abd El Dayem (Egypt)					
	Intestinal Microbiota in Type 1 Diabetic Patients and Its Relation	to Microvascular				
12:15-12:30	Complications Prof. Inas A. Ahmed (Egypt)					
	Comparative Study of the Therapeutic Effect of Thyroid Tissue–Mesence	hymal Stem Cells				
	Conjugates and Tissue-Engineered Thyroid Cell Sheets in Hypothyroidism	1				
12:30-12:45	Prof. Mona Abdelfattah M. ABOZEID (Egypt)					
	Antagonizing Cancer Cell Proliferation and Migration by Silencing Chemotactic Gene					
	Markers					
12:45-13:00	Prof. Doaa Ahmad Ghareeb (Egypt)					
	From Wounds to Cancer: Mechanistic Insights into Insulin Regulation Decisions	on and Cell Fate				
10.00.10.15	Ass. Prof. Hassan Elsayed (Egypt)					
13:00-13:15	Understanding Natural Infection and Disease Severity in Egypt: A Bluepri	nt for Innovative				
	Safe & Efficacious SARS-Cov-2 Vaccination Strategy	in for innovative,				
13:15-13:30	Dr. Mervat Iskandar (Egypt)					
	RAS Oncogene in Cancer Detection, Prognosis, and Therapy					
13:30-13:45	Dr. Nashwa M. Shalapy (Egypt)					
	Hepato-Therapeutic and Protective Actions of Genistein on Liver Fibrosis	of Male Kunming				
	Mice Induced by CCl4					

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14:00 - 15:00	Lunch break					
Day 2: Thursday, 6 November 2025 Lecture room (Main) 15:00 - 17:30						
Plenary Session II	lenary Session II Desert Biotechnology and Arid Zone Innovations					
Chair	persons Prof. Mahmoud Sakr Ass. Prof. Oliver Van Aken Ass. Prof. Ahmed Heikal					
15:00-15:20	Prof. Yiping Qi (USA) Online					
12.00 12.40	Versatile Plant Genome Engineering by CRISPR-Combo					
15:20-15:40	Dr. Julian G.B. Northey (Canada) Online Innovative Platform for Creating Climate–Resilient Wheat Cultivars: Enhancing Egypt's					
	National Food Security and Yield Under Water-Limiting Conditions					
15:40-16:00	Prof. Umesh K. Reddy (USA) Online					
	Targeting Negative Regulators with CRISPR: Unlocking New Pathways for Abiotic Stress Resilience in Crops					
16:00-16:20	Prof. Ayman El Baz (USA) Online					
	Role of AI in Medicine, Higher Education, and the Knowledge-Based Economy					
16:20-16:40	Dr. Mohamed Bedair, Bayer CropScience (USA) Online Overview of the Safety Assessment of Biotech Crops					
16:40-17:00	Prof. Moemen Hanafy (Egypt)					
	Transgenic Approaches for Legume Improvement: Progress and Prospects					
Day 2: Thursd	ay, 6 November 2025 Multipurpose room 15:00 - 17:00					
Workshop IX	Desert Biotechnology and Arid Zone Innovations					
	Coordinators: Prof. Soliman Omran, Dr. Amira Hassan Soliman					
	sons Prof. Hesham A. El Enshasy Prof. Fagr Abdel Gawad Prof. Rasha Al-Tarawnel	n				
15:00 - 15:15	Prof. Malgorzata Jedryczka (Poland) Decision Support Systems in Plant Protection for the Bioeconomy					
15:15 - 15:30	Ass. Prof. Murad Al-Maaitah (Jordan)					
	Smart Wastewater Recycling and CO2 Biofixation via Microalgae: A Sustainable Pathway for	r				
42.00 42.42	Climate-Resilient Agriculture					

Outcomes of Biotechnology Research in Agriculture and the Protection of Plant Varieties.

Civilization Rights and Civilizology as a Gateway to Biotechnology and Sustainable

Genome-Wide Association Study for Productive Traits in Egyptian Barki Sheep

Microbial inoculants and water-use efficiency in Sudan's Drylands: A PRISMA-guided

15:30 - 15:45

15:45 - 16:00

16:00 - 16:15

16:15 - 16:30

16:30 - 16:45

Prof. Taha Abd-Elkader (Egypt)

Development: Chance - Challenges - Change.

Dr. Ibrahim Shawki Ramadan Abousoliman (Egypt)

Ass. Prof. Mohamed Abdelfattah Abdelhafez (Egypt)

Livestock Nano-Feed Addresses Arid Zone Challenges

systematic review with pre-specified meta-analysis plan

Prof. Ahmed Rashed (USA)

Prof. Mai Ali (Sudan)

Poste	er Session X	Young Scientists Innovations in Desert Biotechnology Coordinators: Ass. Prof: Mai M. Farid Mr. Mohammed Abdel-Sattar				
	Chairpe Evaluation	ersons	Prof. Wagdy Khalil	Prof. Soliman Omarn	Ass. Prof. Helmy Youssef	
09:	00 - 09:30	Poster setup and registration				
09:	30 - 11:00	Poster v	Poster viewing and initial evaluation			
11:0	00 - 12:30	Author o	Author discussions and interactive Q&A			
11:0	00 - 12:30	Extended viewing and final judging				
11:0	00 - 12:30	Group P	Group Photo			

- The scientific committee will evaluate the posters based on:
- Originality and relevance
- Visual clarity and organization
- Presentation and communication skills
- Top posters will be recognized with Certificates of Excellence during the Closing Ceremony

Day 2: Thursday, 6 November 2025

Lecture room (Main)

17:00 - 18:00

Closing Ceremony and Announcement of the Winners of The Arab Biotechnology Scholar Award 2025 (ABS 2025)

Note: A collective time discussion will be held at the end of the sessions.











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