2nd Annual
2022 Saudi LABORATORY AND DIAGNOSTIC CONGRESS
22 – 20 February, 2022
Virtual Congress

المؤتمر والمعرض السعودي ٢٠٢٢ لعلوم المختبرات والفحوصات الطبية
١٩-٢١ رجب ١٤٤٣ | مؤتمر رقمي

24 CME CREDITS

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Prof. Khalid Alharbi, PhD, MSc, BSc, Chairman, **Saudi Society for Clinical Laboratory Sciences,** Professor and Consultant in Medical Molecular Genetics, **King Saud University, Riyadh, KSA**

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Dr. Abdulrahman M. Alsulaiman, Clinical Scientist & Consultant of Medical & Molecular Virology, Vice President, **Saudi Society for Clinical Laboratory Sciences,** Member, Professional Council for Laboratories and Medical Technologies in Saudi Commission For Health Specialties, **KSA**

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Dr. Abdulaziz Alouffi, Associate Research Professor in Infectious Diseases (Zoonotic Diseases) and Vaccinology, **King Abdulaziz City for Science and Technology, KSA**



Dr. Amal Alshammary, MSc PhD FIBMS, Board Member (SSCLS); Assistant Professor, Consultant in Clinical Immunology, **King Saud University, Riyadh, KSA**



Dr. Raed Farzan, Assistant Professor, Molecular Genetics, Department of Clinical Laboratory Sciences, Member, Board of Directors of **SSCLS, King Saud University, KSA**

Speaker Faculty

Mr. Abdulaziz Aljohani, Operations Administrator, Laboratory Services, **Prince Mohammed Bin Abdulaziz Hospital, Medina, Ministry of National Guard, KSA**
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Ms. Lamia Alsubaie, MSc, LGC, Senior Licensed Genetic Counselor, PhD Candidate, Saudi Chapter Chair, National Guard Health Affairs, **King Saud University, Li Furameni Syndrome Association, KSA**
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Dr. Nasser Farag, Lab Director, Futurelabs, MD, Clinical Pathology Resident, **MBA, KSA**
Mr. Rani Besisou, Medical Affairs Manager, **Roche Diagnostics Middle East, KSA**
Dr. Seham Alzaid, Director of Total Quality Management of Public Health Laboratory, **Public Health Authority, KSA**
Dr. Souad Mohammed Alateah, Head of Virology and Molecular Microbiology and Virology, **Prince Sultan Military Medical City, KSA**
Dr. Yasser Alraey, Assistant Professor, Tropical Medicine, **King Khalid University - Abha, KSA**
Dr. Yousef M Hawsawi, B.Sc. M.Sc, Ph.D., Consultant, Molecular Biology & Genetics, Adjunct Assistant Professor, **Al-Faisal University,** Associate Scientist, **King Faisal Specialist Hospital and Research Center (KFSHRC), Jeddah, KSA**

Posters Evaluations and Nominations Committee



Dr. Roba Mohammed Saeed Attar, Assistant Professor, Department of Microbiology, College of Science, **University of Jeddah, KSA**



Dr. Khaled Saleh Allemailem, Consultant in Medical Microbiology, Associate Professor, Department of Medical Laboratories, College of Applied Medical Sciences, **Qassim University, KSA**



Dr. Amal Alshammary, MSc PhD FIBMS, Board Member (SSCLS); Assistant Professor, Consultant in Clinical Immunology, **King Saud University, Riyadh, KSA**



Dr. Abdulaziz Alouffi, Associate Research Professor in Infectious Diseases (Zoonotic Diseases) and Vaccinology, **King Abdulaziz City for Science and Technology, KSA**



Dr. Raed Farzan, Assistant Professor, Molecular Genetics, Department of Clinical Laboratory Sciences, Member, Board of Directors of **SSCLS, King Saud University, KSA**

Poster Presentation

Anisha Paul, RAK Medical And Health Science University, KSA

Arwa A.Faizo, King Abdulaziz University, KSA

Deemah Dabbagh, Clinical Laboratory Sciences, **King Saud University**

Manal Mohamed Elsayed Ahmed, Medical Research Division, **National Research Centre, Egypt**

Raghad Alaqeel, King Abdullah International Medical Research Center, KSA

Ruqayyah Almizraq, Assistant Professor, **Canadian Blood Services (CBS)**

Sameh Nakhla, Alexandria University, KSA

Sara Alharbi, Qassim University, KSA

Sara Arafa, Microbiology, Umm Al-Qura University

Shabihul Fatma Sayed, Assistant Professor, **Jazan University, KSA**

Sohair Hassan, Researcher Professor, **National Research Center**

Syed Tasqeeruddin, Pharmaceutical Chemistry, **King Khalid University, KSA**

Conference Day One: 20 February 2022, Sunday

09:00	Welcome Remarks from Maarefah Management	Waleed Refaay
09:05	Opening Remarks by the Congress Chairman	Prof. Khalid Khalaf Alharbi
Session 1: Advancements in Microbiology Moderator: Dr. Amal Alshammary		
09:10	Antimicrobial Resistance: A Global Threat Leading to Major Health and Economic Burden	Dr. Majed Alghoribi
09:40	Transforming mycobacteriology laboratory by using modern molecular methodology	Dr. Souad Mohammed Alateah
10:10	Emerging infectious diseases; past, present and future	Dr. Abdullah Algaissi
10:40	Climate Change and Microorganisms	Prof. Abdullah Alanazi
11:10	Coffee Break	
Session 2: COVID19- Moderator: Dr. Abdulrahman Alsulaiman		
11:30	The pandemic crises of SARS-COV-2 lesson to learn from the experience of KFSHRC-Jed	Dr. Yousef Hawsawi
12:00	SAR-CoV2- Viral Mutations: Impact on COVID19- Tests	Dr. Abdulrahman Theyab
12:30	Accreditation for COVID19- Testing (Weqaya Role in delivering confidence in private providers of COVID-19 testing)	Dr. Seham Alzaid
13:00	Prayer & Lunch Break	
Session 3: Quality and Management Moderator: Dr. Nashat Nafouri		
14:00	How to Avoid 10 Most Cited Deficiencies in Laboratory Quality Management System	Mr. Abdulaziz Aljohani
14:30	Roadmap to Laboratory Accreditation	Mr. Jaffar Khiariy
15:00	The Pros and Cons in Managing Private Lab	Dr. Nasser Farag
15:30	End of Congress Day 1	

Conference Day Two: 21 February 2022, Monday

09:00	Opening Remarks by the Congress Vice Chairman	Dr. Abdulrahman M. Alsulaiman
Session 4: In-Vitro Fertilization Moderator: Dr. Raed Farzan		
09:10	Assisted Reproductive Techniques (ART): Treatment of Choice for Infertility	Dr. Naeem Iqbal
09:40	History of IVF and Improvement of its Procedure in the past 40 years	Dr. Mohamed Moaz
10:10	Recent advances in ART	Ms. Hadeel Khayat
10:40	Coffee Break	
Session 5: Hot Topics In Clinical Laboratory Moderator: Dr. Fahad M. Aldakheel		
11:00	Detecting Preanalytical Errors Using Quality Indicators in Hematology Laboratory	Dr. Khalid Alshaghdali
11:30	Scientific Symposium: How to Automate your Lab for the Future	Mr. Ahmed Abbas
12:00	Scientific Symposium: Return to Work Mindset & Rapid Antigen Tests	Dr. Ahmad K. Minkara
12:30	Performance of Xpert MTB/RIF assay at a reference laboratory with an intermediate prevalence for extra-pulmonary specimens	Dr. Abdulwahab Zaid Binjomah
13:00	Lunch Break	
Session 6: Molecular Techniques Moderator: Ms. Lamia Alsubaie		
14:00	The Genetic Landscape of Mitochondrial Diseases in Saudi Arabia	Dr. Naif Almontashiri
14:30	Cell free DNA: revolution in molecular diagnostic	Prof. Majid Al Fadhel
15:00	Impact of POCT molecular assays on Precision Medicine	Dr. Faisal Alowaidi
15:30	End of Day Congress 2	

Conference Day Three: 22 February 2022, Tuesday

09:00	Opening Remarks by the Congress Vice Chairman	Dr. Abdulrahman M. Alsulaiman
	Session 7: Biotechnology **Moderator: Dr. Abdulaziz Alouffi**	
09:10	Developing a Vaccine: The Medical Laboratory Involvement	Dr. Mashal M. Alshazi
09:40	CRISPR system as a tool in the biotechnology	Dr. Ahmad Aldossary
10:10	Using biotechnology for diagnostic vector borne diseases and control	Dr. Yasser Alraey
10:40	Scientific Symposium: The Roll of PIVKA II in the Early detection of Hepatocellular Carcinoma (Roche)	Mr. Rani Besisou
11:10	Coffee Break	
	Session 8: Personalised Medicine **Moderator: Dr. Ayman Alsulaiman**	
11:30	Scientific Symposium: Emerging Role of Diagnostics and Precision Medicine in Pharmaceutical Industry (AstraZeneca)	Mr. Meshal Almuallimi
12:00	Metabolomics makes medicine more personalized	Dr. Anas Abdel Rahman
12:30	Oligonucleotide Synthesis Role in Clinical Genomic Medicine	Dr. Dana M. Bakheet
13:00	Personalized Medicine in Action: A Bio-informatics Perspective	Dr. Mohamed Abouelhoda
13:30	Lunch Break	

Session 9: Poster Presentation
Moderator: Posters Evaluations and Nominations Committee

14:00	Vitamin C and Clove (Syzygium aromaticum) extract inhibits biofilm formation on catheter tubes by Escherichia coli and Klebsiella pneumoniae	Anisha Paul
14:10	Evaluation of Radiation-induced thyroid abnormalities during Head and Neck area Radiotherapy in childhood	Sameh Nakhla
14:20	DOES the topical treatment with complementary and alternative medicine used by dermatology patients act as potential source for microbial contamination and spread of MDR bacteria?	Sara Alharbi
14:30	Early prediction of lower respiratory tract infections in pulmonary tuberculosis patients	Raghad Alaqeel
14:40	High Effectiveness of COVID-19 mRNA Vaccines in Inducing Humoral Neutralizing Immunity among Individuals with Various Classes of Obesity	Arwa A.Faizo
14:50	Development of murine monoclonal antibodies against PBP2a to improve laboratory diagnosis and potential treatment of MRSA infections	Manal Mohamed Elsayed Ahmed
15:00	Washing Red Blood Cells with an Automated Cell Processor Reduces Inflammatory Platelet Vesicles	Ruqayyah Almizraq
15:10	Design, synthesis, and anticancer evaluation of structurally modified substituted aryl-quinazoline derivatives as anticancer agents	Syed Tasqeeruddin
15:20	Knocking off Oxidative Stress, Pro Inflammatory Cytokine and Reverse DNA Carcinogenicity through Silver Nano Particles of Brassica juncea L. (Mustard)	Sohair Hassan
15:30	Antimicrobial resistance and genes encoding for virulence factors among community-associated uropathogenic E. coli in Western Saudi Arabia	Sara Arafa
15:40	Antioxidants potential of rosmarinic acid on formarldehyde-induced lung toxicity in animal model: A dose response study	Shabihul Fatma Sayed
15:50	Identification of the SHREK family of proteins as broad-spectrum host antiviral factors	Deemah Dabbagh
16:00	Closing Remarks from the Vice Chairman and Awarding of Poster Presentation	
16:10	End of Congress	

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2022 Events

CME Accredited Conferences

2022 Events	Dates	Location
Saudi Allergy, Asthma & Immunology Society	28-30 January 2022	Alkhobar, KSA & Virtual Event
Saudi Laboratory and Diagnostic Congress	20-22 February 2022	Virtual Event
MENA Women's Health Webinar Series	25 February 2022	Virtual Event
Emarati Pediatric Neurology Network Meeting	26 February 2022	Dubai, UAE & Virtual Event
Arab International Paediatric & Neonatal Medical Congress	25-26 February 2022	Virtual Event
HIV Expert Summit	08-09 March 2022	Virtual Event
Middle East Pediatric Pulmonology Summit	19-20 March 2022	Dubai, UAE & Virtual Event
Middle East Pharmacoeconomics and Drug Policy Summit	24-25 March 2022	Dubai, UAE & Virtual Event
MENA Women's Health Webinar Series	26 March 2022	Virtual Event
GCC Public Health Summit	25-26 March 2022	Dubai, UAE & Virtual Event
International Oncology and Supportive Care Congress	26-27 March 2022	Dubai, UAE & Virtual Event
MENA Health Insurance Congress	12-13 May 2022	Dubai, UAE & Virtual Event
International Paediatric Neurology Congress	13-14 May 2022	Dubai, UAE & Virtual Event
MENA Diabetes Medical Congress	20-21 May 2022	Virtual Event
International Nursing and Midwifery Webinar Series	21 May 2022	Virtual Event
Sleep Medicine Conference	21 May 2022	Dubai, UAE & Virtual Event
Arab International Pharmacy Congress	26-27 May 2022	Riyadh, KSA & Virtual Event
Dubai International Conference on Infectious Disease and Vaccination	27-28 May 2022	Dubai, UAE & Virtual Event
Emarati Pediatric Neurology Network Meeting	28 May 2022	Dubai, UAE & Virtual Event
MENA Metabolic & Genetic Conference	27-29 May 2022	Virtual Event
International Paediatric Dermatology Congress	03-05 June 2022	Dubai, UAE & Virtual Event
Glomerulonephritis Update Conference - Nephrology	03-05 June 2022	Dubai, UAE & Virtual Event
International Trauma Management Forum	04-05 June 2022	Dubai, UAE & Virtual Event
Saudi International Vaccination Forum	08-09 June 2022	Virtual Event
Middle East Healthcare Financing Summit	14-15 June 2022	Abu Dhabi UAE & Virtual Event
MENA Pharmacy Congress	17-18 June 2022	Virtual Event
Pulmonary Rheumatology Expert Forum	18-19 June 2022	Dubai, UAE & Virtual Event

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2022 Events

CME Accredited Conferences

2022 Events	Dates	Location
Middle East Paediatric Medical Conference	28-30 June 2022	Istanbul, Turkey & Virtual Event
King Faisal Pediatric Conference	03-06 September 2022	Riyadh, KSA & Virtual Event
Emarati Pediatric Neurology Network Meeting	10 September 2022	Dubai, UAE & Virtual Event
MENA International Orthopaedics Congress	16-18 September 2022	Dubai, UAE & Virtual Event
MENA Women's Health Congress	17-18 September 2022	Dubai, UAE & Virtual Event
MENA Health Insurance Congress	19-20 September 2022	Dubai, UAE & Virtual Event
Arab Pediatric Pulmonology Conference	23-24 September 2022	Qatar & Virtual Event
Anti Microbial Conference - Weqaya	28-29 September 2022	Riyadh, KSA & Virtual Event
International Anesthesia and Pain Conference	30 Sep-02 Oct 2022	Dubai, UAE & Virtual Event
MENA HIV Congress	01-02 October 2022	Dubai, UAE & Virtual Event
Middle East International Paediatric Neurology Congress	08-09 October 2022	Dubai, UAE & Virtual Event
Covid-19 Conference	15 October 2022	Dubai, UAE & Virtual Event
UAE ID Week	28-30 October 2022	Dubai, UAE & Virtual Event
GCC Pharmacy Congress	29-30 October 2022	Dubai, UAE & Virtual Event
International Gastroenterology Congress	04-05 November 2022	Dubai, UAE & Virtual Event
Asthma, Allergy and COPD Forum	05-06 November 2022	Dubai, UAE & Virtual Event
Saudi International Conference on Emerging Infections - Weqaya	08-09 November 2022	Riyadh, KSA & Virtual Event
International Metabolic & Genetic Conference	11-12 November 2022	Dubai, UAE & Virtual Event
Saudi Obesity Conference - Weqaya	15-16 November 2022	Riyadh, KSA & Virtual Event
Women's Health Conference	18-19 November 2022	Istanbul, Turkey & Virtual Event
Qatar International Diabetes Congress	25-26 November 2022	Qatar & Virtual Event
International Paediatric Medical Congress	26-27 November 2022	Dubai, UAE & Virtual Event
Patient Experience Conference	29-30 November 2022	Abu Dhabi, UAE & Virtual Event
World HIV	01-02 December 2022	Riyadh, KSA & Virtual Event
EMAN Nephrology Conference	03-04 December 2022	Dubai, UAE & Virtual Event
Emarati Pediatric Neurology Network Meeting	04 December 2022	Dubai, UAE & Virtual Event
Kuwait Pediatric Neurology Congress	10-11 December 2022	Kuwait & Virtual Event
Covidiology Summit	16 December 2022	Dubai, UAE & Virtual Event