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# GENOMIC MEDICINE CONFERENCE

Breakthroughs & Perspectives

2 FEBRUARY 2022

AUSTRALIAN PAVILION  
EXPO 2020, DUBAI, UAE  
10:00 AM TO 7:35 PM

Hybrid Conference



## PROGRAM BOOK

A portrait of Professor Fatma Al Jasmi, a woman wearing a black hijab and a black patterned abaya, looking directly at the camera. The background is a blurred indoor setting. The text 'MESSAGE FROM THE CONFERENCE PRESIDENT' is overlaid on the left side of the image in white, bold, uppercase letters.

# MESSAGE FROM THE CONFERENCE PRESIDENT

Dear Colleagues,

It is with great pleasure to invite you to attend the Genomics Medicine Conference, to be held on February 2, 2022 at Australian Pavilion, Expo 2020, Dubai, United Arab Emirates.

As we strive through the COVID-19 pandemic and restrictions, we are thrilled to announce that this conference will be in a hybrid format. This state-of-the-art conference will gather nationally and internationally renowned experts in the field of different genomic medicine & technology and provide a forum for presenting and sharing ideas at academic, conceptual and clinical levels.

This one day conference will discuss several topics in genomic medicines such as latest developments, research breakthroughs, proven researches, and guidelines update in the field of stem cells, human genetic diseases, cardiovascular system, and other human systems. A session with a great opportunity for information exchange related to healthcare, Bioinformatics, genomic medicine will be a highlight of discussion to more than 500+ attendees that will attend in both physical and virtual settings.

We look forward that you join us at this year's conference and we hope that we can meet you and have an opportunity to engage with you in this one of a kind scientific gathering.

See you in February 2022!

Best regards,

A handwritten signature in white ink that reads 'AL JASMI'.

Professor Fatma Al Jasmi  
CONFERENCE PRESIDENT  
Chair, Department of Genetics and Genomics  
College of Medicine and Health Sciences  
UAE University



## HEAD OF THE SCIENTIFIC COMMITTEE



**Prof. Fatma Al Jasmi**

Chair  
Department of Genetics and Genomics  
College of Medicine and Health Sciences  
UAE University, UAE



**Prof. Bassam Ali**

Professor  
Department of Genetics and Genomics  
College of Medicine and Health Sciences  
UAE University, UAE

## COMMITTEE MEMBERS



**Dr. Hiba AlBlooshi**

Assistant Professor  
Department of Genetics and Genomics  
College of Medicine and Health Sciences  
UAE University, UAE



**Prof. Mohd Saberi Mohamad**

Professor  
Department of Genetics and Genomics  
College of Medicine and Health Sciences  
UAE University, UAE

## SPEAKERS



**Prof. Juan Manuel Corchado**

Full Professor at the University of Salamanca  
President of the Air Institute  
Visiting Professor at the Osaka Institute of Technology  
Visiting Professor at the Universiti Malaysia Kelantan  
Director BJSITE - Bioinformatics Intelligent Systems and Educational  
Technology Research Group, Spain



**Prof. Charalambos Antoniades**

BHF Chair of Cardiovascular Medicine University of Oxford  
Director, Acute Vascular Imaging Centre  
Deputy Head, Division of Cardiovascular Medicine University of Oxford  
Consultant Cardiologist Oxford University Hospitals NHS Foundation Trust  
Chair, British Atherosclerosis Society, UK



**Dr. David Hansen**

CEO and Research Director, Australian e-Health Research Centre, CSIRO  
Member, National Committee for the NHMRC Australian Genomics Health  
Alliance, Australia



**Prof. Christopher Walsh**

Investigator, Howard Hughes Medical Institute  
Chief, Division of Genetics and Genomics, Boston Children's Hospital  
Bullard Professor of Pediatrics and Neurology  
Harvard Medical School, USA



**Prof. Nigel Laing**

NH&MRC Principal Research Fellow  
Group Leader Neurogenetic Diseases Group  
Centre for Medical Research University of Western Australia  
Harry Perkins Institute of Medical Research  
QEII Medical Centre, Australia



### **Prof. Fowzan S Alkuraya**

Professor of Human Genetics, Principal Clinical Scientist and Senior Consultant Chairman, Translational Genomics (Center for Genomic Medicine) King Faisal Specialist Hospital and Research Center, KSA

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### **Dr. Denis Bauer**

Group Leader, Principal Research Scientist, CSIRO  
Honorary Associate Professor, Faculty of Science and Engineering and Faculty of Medicine and Health Science, Macquarie University, Australia

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### **Prof. George Patrinos**

Professor, Department of Pharmacy, School of Health Sciences, University of Patras, Greece  
Adjunct Full Professor, Department of Pathology, College of Medicine and Health Sciences, United Arab Emirates University, UAE  
Full Member and National Representative, CHMP-Pharmacogenomics Working Party, European Medicines Agency, Amsterdam, NL  
Editor-In-Chief, The Pharmacogenomics Journal (Nature), Greece

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### **Dr. Moeen AlSayed**

Consultant, Clinical Genetics and Clinical Biochemical Genetics  
Department of Medical Genetics, King Faisal Specialty Hospital and Research Center  
Director of Genetic Counselling  
Al Faisal University, KSA

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### **Dr. Paul Gissen**

Professor, Pediatric Metabolic Medicine  
Head, Genetics and Genomic Medicine Research and Education Department  
Great Osmond Street Institute of Child Health  
Lead for "Gene and Stem Cell Therapies" Theme, GOSH/ICH Biomedical Research Centre  
Honorary Consultant, Pediatric Metabolic Medicine  
Great Osmond Street Hospital for Children, UK

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### **Dr. Amal Al Hashem**

Consultant Clinical Genetics, Head of Division Medical Genetics, Paediatric Department, Prince Sultan Military Medical City, Riyadh, KSA

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### **Dr. Khalid Al-Thihli**

Senior Consultant Clinical & Biochemical Geneticist  
Genetic and Developmental Medicine Clinic  
Sultan Qaboos University Hospital, Sultanate of Oman

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### **Prof. Patrick Merel**

PhD in Molecular Biology  
Director of Genomics, G42 Healthcare, UAE

# SCIENTIFIC AGENDA

START	END	ACTIVITY	SPEAKER
<b>WELCOME COFFEE and TEA</b>			
<b>Opening Ceremony</b>			
10:00	10:10	Welcome Remarks	<b>Mr. Justin McGowan</b> Expo 2020 Dubai Commissioner General for Australia
			<b>H.E Ian Halliday</b> Australian Consul-General
10:10	10:20	Welcome Message from the UAE University	<b>H.E. Zaki Anwar Nusseibeh</b> Chancellor, UAE University, The Cultural Advisor to the President of the UAE
10:20	10:35	Conference Opening	<b>Prof. Fatma Al Jasmi</b> Chair, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE
<b>Session 1 Technology &amp; Engineering</b>   <b>Dr. Saeed Al Turki</b> - Visiting Faculty, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE			
<b>MODERATORS</b>   <b>Prof. Mohd Saberi Mohamad</b> - Professor, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE			
10:35	11:05	Deep NGS for the Next Generation Sequencing: An Exciting Challenge	<b>Prof. Juan Manuel Corchado</b> Full Professor at the University of Salamanca President of the Air Institute Visiting Professor at the Osaka Institute of Technology, Visiting Professor at the Universiti Malaysia Kelantan Director BISITE - Bioinformatics Intelligent Systems and Educational Technology Research Group, Spain
11:05	11:35	Using Multi-Omics and Artificial Intelligence in Precision Medicine	<b>Prof. Charalambos Antoniades</b> BHF Chair of Cardiovascular Medicine University of Oxford Director, Acute Vascular Imaging Centre, Deputy Head, Division of Cardiovascular Medicine University of Oxford Consultant Cardiologist Oxford University Hospitals NHS Foundation Trust Chair, British Atherosclerosis Society, UK
11:35	12:00	Artificial Intelligence Technology Enabling the Future of Healthcare	<b>Dr. David Hansen</b> CEO and Research Director, Australian e-Health, Research Centre, CSIRO Member, National Committee for the NHMRC, Australian Genomics Health Alliance, Australia
12:00	12:25	One Brain, Many Genomes: Somatic Mutation and Genomic Diversity in Human Brain	<b>Prof. Christopher Walsh</b> Investigator, Howard Hughes Medical Institute, Chief, Division of Genetics and Genomics, Boston Children's Hospital Bullard Professor of Pediatrics and Neurology, Harvard Medical School
12:25	13:55	<b>Lunch Break</b>	
<b>Session 2 Prevention</b>   <b>MODERATOR</b>   <b>Prof. Bassam Ali</b> - Professor, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE			
13:55	14:20	Mackenzie's Mission : The Australian Reproductive Carrier Screening Project	<b>Prof. Nigel Laing</b> NH&MRC Principal Research Fellow Group Leader Neurogenetic Diseases Group Centre for Medical Research University of Western Australia Harry Perkins Institute of Medical Research, QEII Medical Centre, Australia
<b>Session 3 Diagnostic</b>   <b>MODERATOR</b>   <b>Dr. Hiba AlBlooshi</b> - Assistant Professor, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE			
14:20	14:45	Mendelian Hunt Gone Awry	<b>Prof. Fowzan S Alkuraya</b> Professor of Human Genetics, Principal Clinical Scientist and Senior Consultant Chairman, Translational Genomics (Center for Genomic Medicine), King Faisal Specialist Hospital and Research Center, KSA
14:45	15:10	How Bioinformatics improves Diagnostics of Genetics and Rare Diseases	<b>Dr. Denis Bauer</b> Group Leader, Principal Research Scientist, CSIRO, Honorary Associate Professor, Faculty of Science & Engineering and Faculty of Medicine and Health, Science, Macquarie University, Australia





Session 4		Treatment	MODERATOR	Dr. Nadia Akawi - Assistant Professor, Department of Genetics and Genomics, College of Medicine and Health Sciences, UAE University, UAE	
15:10	15:40	Personalized Medicine : The Medicine of Tomorrow, Today!	<b>Prof. George Patrinos</b> Professor, Department of Pharmacy, School of Health Sciences, University of Patras, Greece Adjunct Full Professor, Department of Pathology, College of Medicine and Health Sciences, United Arab Emirates University, UAE, Full Member and National Representative, CHMP-Pharmacogenomics Working Party, European Medicines Agency, Amsterdam, NL. Editor-In-Chief, The Pharmacogenomics Journal (Nature), Greece		
15:40	16:10	New Treatment for Genetic Diseases	<b>Dr. Moeen AlSayed</b> Consultant, Clinical Genetics and Clinical Biochemical Genetics, Department of Medical Genetics, King Faisal, Specialty Hospital and Research Center, Director of Genetic Counselling Al Faisal University, KSA		
16:10	16:40	<b>Coffee Break</b>			
16:40	17:05	Developing Therapies for Incurable Diseases	<b>Dr. Paul Gissen</b> Professor, Pediatric Metabolic Medicine Head, Genetics and Genomic Medicine Research and Education Department, Great Osmond Street Institute of Child Health, Lead for "Gene and Stem Cell Therapies" Theme, GOSH/ICH Biomedical Research Centre, Honorary Consultant, Pediatric Metabolic Medicine Great Osmond Street Hospital for Children, UK		
<b>Industry Supported Symposiums</b>					
17:05	17:35	Gene Therapy and the Future of AADC Deficiency Innovative Treatment	<b>Dr. Amal Al Hashim</b> Consultant Clinical Genetics, Head of Division Medical. Genetics, Paediatric Department, Prince Sultan Military Medical City, Riyadh, KSA		
17:35	18:05	Management of Gaucher Disease	<b>Dr. Khalid Al-Thihli</b> Senior Consultant Clinical & Biochemical Geneticist , Genetic and Developmental Medicine Clinic, Sultan Qaboos University Hospital, Sultanate of Oman		
18:05	18:30	<b>Coffee Break /</b>		<b>Industry Supported Symposiums</b>	
18:30	19:00	Introduction to ASMD	<b>Dr. Moeen AlSayed</b> Consultant, Clinical Genetics and Clinical Biochemical Genetics, Department of Medical Genetics, King Faisal, Specialty Hospital and Research Center, Director of Genetic Counselling Al Faisal University, KSA		
19:00	19:30	From Population Genomics to Clinical Genomics	<b>Prof. Patrick Merel</b> PhD in Molecular Biology Director of Genomics, G42 Healthcare, UAE		
19:30	19:35	<b>Closing Remarks</b>		<b>End of the Conference</b>	

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# GENOMIC MEDICINE CONFERENCE

Breakthroughs & Perspectives

2 FEBRUARY 2022

MANAGED BY:



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MEDETABAN CONFERENCES ORGANIZING