The Riyadh Global Medical Biotechnology **Summit**

global conference, dedicated this year to September, the Rivadh Global Medical Biotechnology Summit (RGMBS) 2021 brought local, regional and international biotechnology community including academic, industrial and governmental organisations to discuss developments in biotechnology in light of the COVID-19 pandemic.



Dr. Bandar Al Knawy Chief Executive Officer, Ministry of National Guard Health Affairs President, King Saud bin Abdulaziz University for Health Sciences and Summit President



Prof. Ahmed Alaskar Executive Director, King Abdullah International Medical Research Center and Summit Chairman



Dr. Abdelali Haoudi Head R&D Strategy and Business Development, Managing Director, Medical Biotechnology Park and Summit Vice Chairman

Introduction to Riyadh Global Medical Biotechnology Summit 2021

Prof. Ahmed Alaskar, Executive Director, King Abdullah International Medical Research Center

Developing a COVID-19 Vaccine for the World at an **Unprecedented Pace**



Sir Menelas N. Pangalos **Executive Vice** President & President BioPharmaceutical R&D, AstraZeneca



Mr. Walter Klemp Chairman and CEO Moleculin. Inc.

SESSION 1: Biotechnology for the Kingdom of Saudi Arabia: Challenges and Opportunities

Chaired by Prof. Ahmed Alaskar, Executive Director, King Abdullah International Medical Research Center

Biotechnology in the Kingdom of Saudi Arabia: Challenges and Opportunities - Towards Better Alignment with the Saudi National Vision 2030

Chaired by Prof. Ahmed Alaskar, Executive Director, King Abdullah International Medical Research Center



Eng. Suliman Almazroua CEO of the National Industrial Development and Logistics Program



Eng. Nizar Chief Executive Officer, National Industrial Development Center



Dr. Ashraf Allam Pharmaceutical Investment Company



Dr. Abdulrahman Professor, physician, healthcare executive and pharmaceutical industry consultant at Ministry of Industry



Director, KAUST Smart Health Initiative



Dr. Elie Haddad Senior Advisor & Project Lead. Riyadh Biotech City, Royal Commission for Riyadh City



Director of the General Directorate for the National RDI, King Abdulaziz City for Science and Technology

"We have learned that it is possible to streamline research that often takes 10 or 20 years into the space of a year."

Medical Research Center and Summit Chairman

SESSION 2: Biotechnology Parks/Clusters: Best Practices and Future Trends

Chaired by Dr. Abdelali Haoudi, Head R&D Strategy and Business Development, Managing Director, Medical Biotechnology Park. Co-chaired by Dr. Klaus Kleinfeld, Senior Advisor to the Ministry of Industry, KSA



Dr. Klaus Kleinfeld



The Munich **Biotech Cluster: Turning Science** into Innovation

Dr. Horst Domdey Development GmbH



Biotechnology as a Strategic Pillar for KSA Health and Economic **Development**

Dr. Mehmood Khan Chief Executive Officer, Hevolution Foundation



Driving Biotech Success with Agile Entrepreneurs Dr. Richard Smith



Innovation and Intellectual Property at KAIMRC/KSAU-HS/ MNG-HA

Dr. Manal Alaamery Head, Developmental Medicine, Chairman Innovation and Entrepreneurship KAIMRC, KSAU-HS, MNG-HA



Structurina **Incentives** to Drive **Biomedical Sector Growth**

Mr. Walter Klemp Chairman and CEO, Moleculin Biotech, Inc.

SESSION 3: Biotechnology Companies: Global Benchmarking and Partnerships

Chaired by Dr. Ronald DePinho, MD Anderson Cancer Center



A Joint Journey into the **Future: How Biotech** and Academic Research **Institutions Can Work** Together to Foster Innovation

Dr. Paul Rothman Chief Executive Officer, Johns Hopkins University, USA



Sporos Bioventures: A New Model for **Biotech Creation and Development**

Dr. Ronald DePinho Professor and Past President **MD Anderson Cancer** Center, USA



How Bioentrepreneurship Works

Mr. Brady Huggett Business Editor, Nature Biotechnology



The Gene Editing Institute at ChristianaCare: An Innovation Accelerator in a Regional **Healthcare System**

Dr. Eric Kmiec

Founder and Director, The Gene Editing Institute, Helen F. Graham Cancer Center & Research Institute, Christiana Care Health System



Open Innovation and Entrepreneurship

Dr. Hitesh Sanganee Executive Director & Head of Emerging Innovations, AstraZeneca



Biotechnology Development: Clinical Trials and **Manufacturing**

Mr. Markus Peterseim Managing Director, Alvarez & Marsal, Frankfurt, Germany



Biotechnological Advances in Cardiovascular Disease Management: From a One to a Billion

Dr. Philip Larsen

Senior Vice President & Head Global R&D, BAYER AG

SESSION 4: Medical Biotechnology, Digital Medicine and Clinical Trials

Chaired by Dr. Ali Alessandro Ayach, Alvarez & Marsal



Biotechnology and Clinical Trials; Adding More Complexity or Facilitating?

Dr. Majed Al Jeraisy Chairman, Research Office, Director, Clinical Trial Services, KAIMRC



Real World Evidence in the Era of Digital **Health: Opportunities** and Challenges

Dr. Ali Al Qarni Head, KAIMRC- Eastern



to Harness Digital and for Precision Health

Dr. Rifat Atun Systems, Director of Global



Re-imagine Patient Access to Expert of Digital Medicine

Dr. Lynda Chin President and Chief Executive Officer, Apricity



Acceleration Clinical Trials in the Digital Era and Commercialization of Outputs

Dr. Ali Alessandro Ayach Senior Director, Strategy and Performance Improvement Alvarez & Marsal Dubai, UAE

SESSION 5: Biosimilars and Biotherapeutics Development and Manufacturing

Chaired by Dr. Joshua LaBaer, The Biodesign Institute



Natural Camelid Single Domain Antibodies as Potential Alternatives to Monoclonal Antibodies in the Next Generation **Immunotherapy**

Dr. Hiep Tran Officer, Abzyme Therapeutics LLC



New Methods for Cell-Free **Presentation** of Proteins for **Functional Analysis**

Dr. Joshua LaBaer Executive Director, The Biodesign Institute



Developing Cell and Gene Therapies: Challenges and Opportunities

Dr. Fouad Atouf Global Biologics, US



Creating a **Biosimilars** and **Biotherapeutics CDMO Hub**

Mr. Markus Peterseim Managing Director, Alvarez & Marsal, Frankfurt, Germany



Dr. Waldemar Radziszewski Executive Medical Director, **Global Clinical** AMGEN

SESSION 6: Vaccine Development and Manufacturing

Chaired by Dr. Jamila Louahed, GSK



Biotechnology Innovation in in Vaccine **Development** Dr. Hani Al Hashmi Senior Medical Affairs Director, Pfizer, KSA



Vaccines Dr. Jamila Louahed Vice President and Head, Global R&D, GSK



Vaccine R&D in **KSA: Experience** and Challenges Dr. Naif Al Harbi Director, Vaccine Development Unit, Director, Research Quality Management Research Scientist, Infectious

Diseases Research

Department, KAIMRC



for All Infants and Children Dr. Jon Heinrichs Associate Vice President and Franchise Head, Sanofi Pasteur

RSV Prevention



Cytiva and **Vaccine Bioprocessing** Mr. Sven Frie General Manager, Commercial Enterprise Solutions, Cytiva



Biotechnology Development: Diagnostics and Therapeutics Dr. Manal Alaamery

Head, Developmental Medicine, Chairman Innovation and Entrepreneurship KAIMRC, KSAU-HS, MNG-HA



Messenger **RNA: A Flexible Platform for Different Therapeutic Areas**

Dr. Paolo Martini Senior Vice President, Moderna

SESSION 7: MedTech/Medical Devices and Diagnostics

Chaired by Mrs. Bouchra Bensaoud, Danaher. Co-Chaired by Mr. Raymond Berglund, Alvarez & Marsal



Mrs. Bouchra Danaher

Molecular Diagnostics' Role in the Fight Against COVID and Beyond



Mr. Iain Sharp-Paul Marketing, Cepheid



Mr. Sherif Harvdi



Oncology Care Pathway: Devices and Tracers

Mr. Perry Frederick Senior Director, Strategic Research, Europe, Middle East, and Africa



to Support Ventilator Manufacturing **Initiatives by Local SMEs**

Dr. Ahmed AlZahrani Director of Healthcare Technology Information Technology Department, MNGHA



Data and the **Future of** Healthcare in the COVID-19 Era

Mr. Elie Chaillot Vice-President and Chief Executive Officer, GE Healthcare, EMEA



What to Consider in Localization for Medtech/Med **Devices**

Mr. Raymond

Managing Director & Head, Healthcare and Life Science,

SESSION 8: Stem Cell Biotechnology and Cellular and Gene Therapy

Chaired by Dr. Miriam Fuchs, Novartis



Chimeric Antigen Receptor T Cells: Lessons from B Cell Malignancies

Dr. Badr Al Ahmari

Fellowship Program, Consultant, Adult Stem Cell Transplant and Cellular Therapy Department of Oncology, KAMC, MNGHA – Riyadh



Genetically Enhanced T Cells: Designing, **Engineering**, and **Building Cancer Immunotherapies**

Dr. Joseph Fraietta Director of the Solid Tumor Immunotherapy **Laboratory University** (Philadelphia, PA)



Saudi Bank of **Induced Pluripotent Stem Cells**

Dr. Khaled Al Sayegh Associate Director, KAIMRC



Development of the Bacteria Viruses, Bacteriophage, into a **Delivery Technology for Therapeutic Genes and DNA Vaccines Against Cancer** and Other Human Diseases

Dr. Amin Hajitou Professor and Chair, Targeted Therapeutics, Imperial College



The Tisagenlecleucel (CAR-T) Experience **Dr. Miriam Fuchs** Global Therapeutic Area

Lead, Cell and Gene Regulatory Affairs, Novartis

SESSION 9: Genomics, Genetics, Gene Editing and Bioinformatics

Chaired by Dr. Paolo Martini, Moderna. Co-Chaired by Prof. Majid Alfadhel, King Abdullah International Medical Research Center



Genetic and Rare Disease Program (GARD): An **Opportunity for Orphan Diseases Biotechnology**

Prof. Majid Alfadhel Deputy Executive Director, KAIMRC, Chairman, Genetics and Precision Medicine Department, King Abdulaziz

Medical City



Moderna

mRNA Therapy for **Propionic Acidemia:** From Bench to Bedside Dr. Paolo Martini Senior Vice President,



Magnetically Guided Rosette NanotubessiRNA Delivery for **Cancer Gene Silencing**

Dr. Hicham Fenniri Professor, Departments of Chemical Engineering, Bioengineering, Chemistry & Chemical Biology, Northeastern University, USA & Chief Scientific Officer, MAScIR Foundation, Morocco



Beyond Exome: Whole Genome Sequencing for **Rare Disease Diagnostics**

Dr. Madhuri Hegde Vice President and Chief Scientific Officer, PerkinElmer, Inc.



Empowering Infectious Disease Surveillance Using Whole-genome Sequencing

Prof. Majed Al Ghoribi Chairman, Infectious Diseases Research Department, Associate Research Scientist, King

Abdullah International

Medical Research Center