



THE THREE Rs OF ANIMAL WELFARE AGENDA

MONDAY
April 9
2018

Morning Session

Auditorium between Bldg. 4 & 5

Co-Chairs:

Prof. Manuel Aranda, Red Sea Research Center, KAUST

Dr. Mardson McQuay, Associate General Counsel, KAUST

Time	
8:00 – 8:30	Welcome & Registration
8:30 – 9:00	Overview of KAUST <i>Dr. Teofilo Abrajano, Director Office of Sponsored Research, KAUST</i>
	Opening Remarks
9:00 – 9:15	<i>Prof. Valerio Orlando, Head of the Environmental Epigenetics Program, KAUST</i> <i>Dr. Simona Spinelli, Manager Animal Resources Core Lab, KAUST</i>
9:15 – 10:00	KEYNOTE LECTURE: Regulations of Laboratory Animal Usage in Saudi Arabia <i>Prof. Abdullah M. Assiri, King Faisal Specialist Hospital & Research Center, KSA</i>
10:00 – 10:30	Animal Care in Public Aquariums: Providing the Correct Environment <i>Mr. Jesus Bravo & Mr. Jose Lamas, CLEAR REEF International, KSA</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Ensuring Responsible Aquaculture Practices in KSA as Part of Vision 2030: From Biosecurity to Organism Welfare and Product Quality Certification <i>Mr. Filippas Papageorgiou, Saudi Aquaculture Society, Aquaculture Department of the Ministry of Environment Water & Agriculture, KSA</i>
11:30 – 12:00	Fish Welfare in Aquaculture and Research <i>Dr. Hamish Rodger, Global Managing Director, FishVet Group, Ireland</i>
12:00 – 12:30	Developing Sensors to Track Marine Animals and Record Their Environment <i>Dr. Nathan Gerald, Red Sea Research Center, KAUST</i>
12:30 – 14:00	Lunch Break

Afternoon Session

Auditorium between Bldg. 4 & 5

Co-Chairs:

Prof. Valerio Orlando, Head of the Environmental Epigenetics Program, KAUST

Dr. Simona Spinelli, Manager Animal Resources Core Lab, KAUST

Time

KEYNOTE LECTURE

14:00 – 14:45 **More than 3Rs - Improving the Validity and Reproducibility of Animal Research**

Prof. Hanno Wuerbel; Animal Welfare Division, Veterinary Public Health Institute at the University of Berne, Switzerland.

3Rs and Experimental Validity of Laboratory Animal Models - Reduction

14:45 – 15:15 *Dr. Simone Macri; Researcher at the Italian National Institute of Health and IACUC member at the Institute of Cognitive Sciences and Technologies, National Research Council, Italy*

15:15 – 15:45 **Coffee Break**

Humane Endpoints: A Powerful Tool for Refinement

15:45 – 16:15 *Dr. Sara Fuochi; Veterinarian at Charles River Laboratories and Lecturer at Milan University within the Advanced Course on Laboratory Animal Welfare and Animal Care, Italy*

Immunocompromised Mice as Animal Models in Oncology and Diabetes Research

16:15 – 16:45 *Dr. Francesca Galbiati; Manager of the Genetically Engineered Mouse Model and Services Department at Charles River Lab, Italy*

Closing Remarks

16:45 – 17:00 *Dr. Stine Buechmann-Moeller, Facilities Director, BioScience, Animal Resources & Analytical Chemistry Core Labs (on Behalf of the KAUST Institutional Official)*

Speakers



Prof. Abdullah M. Assiri obtained his Veterinary degree from King Faisal University in 1995 and worked as lab animal veterinarian until 2000. He pursued his research interest in reproductive physiology and earned his PhD in Animal Sciences in 2006 from Washington State University USA. He is a strong advocate of using animals in research while promoting animal wellbeing in accordance with the 3Rs principles. He is currently, the Chairperson for the Animal Care and Use Committee at King Faisal Specialist Hospital and Research Centre. He acts as advisor for several local institutions on their laboratory animal care programs and lectured extensively on the subject. His research interest is the utilization of genome editing technologies to produce animal models for fertility research. He is currently the Chairman of the Department of Comparative Medicine and Adjunct Assistant Professor & Co-Director of the Clinical Embryology and Reproductive Biology Master Program at the College of Medicine of Al Faisal University & King Faisal Specialist Hospital & Research Center in Riyadh.



Mr. Jesus Bravo holds a Bachelor's degree on IT and Management and an MBA with Finance Diploma obtained in his home country, Mexico. During the last 15 years, Mr. Bravo has been a member of the animal care community as General Manager of parks that house animal collections and a member of Association of Zoos and Aquariums, Alliance of Marine Mammal Parks and Aquariums and International Marine Animal Trainer's Association. Mr. Bravo currently serves as On-Site Manager for Lear Reef International with Fakieh Aquarium in Jeddah and Sheikh Abdullah Al Salem Cultural Center in Kuwait.



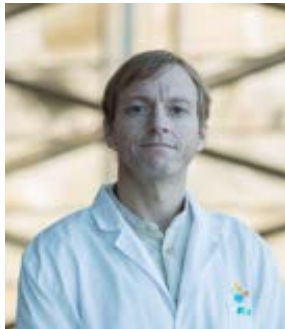
Mr. José Manuel Lamas obtained his certification as Veterinary Medic from Centro Universitario de Ciencias Biológicas y Agropecuarias in Mexico. Mr. Lamas has also provided lectures for different institutions and universities on topics related to veterinary medicine, reproduction and geriatric care for Zoo animals. His passion started when he was 15 years old as animal keeper, from which he evolved to become an animal trainer and later a veterinarian. Currently Mr. Lamas serves as veterinarian for Clear Reef International at Fakieh Aquarium in Jeddah and provides consultation for other institutions like Riyadh Zoo or the Dolphinariums at Dammam and Bahrain.



Mr. Filippas Papageorgiou holds a BSc degree in Marine Biology & Oceanography, an MSc degree on Aquaculture & Fisheries from the University of Wales in the UK and an MBA on General Management and Marketing from the University of Leicester in the UK. He has been working in the seafood and aquaculture industries for 25+ years, mainly as a consultant. He has extensive experience from both the private and the public sectors, and has participated and managed numerous projects and studies, many of which have been in collaboration with international organizations and bodies such as the European Commission, the European Parliament, FAO/GFCM, the Federation of European Aquaculture Producers, the Spanish Aquaculture Observatory Foundation, as well as with national aquaculture Producer Organizations and Associations in various European countries. Since February 2016, Mr. Papageorgiou holds the post of the Technical Consultant to the Saudi Aquaculture Society and to the Aquaculture Department of the Ministry of Environment Water & Agriculture of the Kingdom of Saudi Arabia.



Dr. Hamish Rodger has worked as an aquatic animal veterinarian for over 32 years. He has a MSc and PhD from the Institute of Aquaculture, University of Stirling, Scotland and is Global Managing Director of the Fish Vet Group Ltd. (www.fishvetgroup.com), part of Benchmark Holdings plc (www.benchmarkplc.com). Current research interests include the causes and control of gill disease in finfish, climate change and aquaculture, health and welfare of cleaner fish, and alternate methods for the control of sea lice. He is a Founding Diplomate of the European College of Aquatic Animal Health.



Dr. Nathan Gerald obtained his PhD at the University of North Carolina in Chapel Hill (USA) studying the ecology of coastal ecosystems and how marine animals utilize biogenic habitats. His research has involved tracking animal movement and behavior in diverse ecosystems including estuaries, offshore oil rigs and artificial habitats in the Gulf of Mexico and Alaska. He is currently a postdoc in Prof. Carlos Duarte group at the KAUST Red Sea Research Center, working on a diverse array of projects, including developing novel sensor and attachment methods to improve our understanding of animal ecology in the marine environment.



Prof. Hanno Wuerbel studied Biology at the University of Bern in Switzerland and graduated at the Federal Institute of Technology (ETH) in Zurich (Switzerland) in 1996. He continued his research as a postdoc at Bristol University (UK), ETH, and the University of Zurich before he was appointed Professor of Animal Welfare and Ethology at the University of Giessen (Germany) in 2002. In 2011, he returned to the University of Bern as Professor of Animal Welfare. His research focuses on plasticity of brain and behavior with regards to questions of animal welfare and the scientific validity of animal research. He received numerous awards, incl. the Felix Wankel Animal Welfare Research Award (2009), the ISAE Creativity Award (2015), and the CAAT Excellence in Refinement Award (2017). Since 2013 the European Research Council (ERC) funds his research on the refinement of animal research by an ERC Advanced Grant.



Dr. Simone Macri obtained his PhD in Natural Sciences at the Swiss Federal Institute of Technology in Zurich (Switzerland) and he is currently a research scientist at the Italian National Institute of Health in Rome (Italy) – is an expert in the field of behavioral neuroscience and preclinical modeling of human psychiatric and neurological disorders. He has specific experience in the ontogenetic analysis of behavioral fluctuations. His major research focus has been the study of adaptive plasticity in laboratory animals. In particular, he performed a series of studies in which he systematically varied environmental conditions throughout development (infancy through adulthood) and observed how developing individuals react to these manipulations in terms of emotional regulations. He approached fundamental methodological questions related to the validity of experimental data. Specifically, he ran a series of studies aimed at understanding the extent to which data obtained in laboratory animals can translate to different contexts.



Dr. Sara Fuochi obtained her degree in Veterinary Medicine in 2009 and specialized in Laboratory animals Science and Medicine in 2013 within Federico II University in Naples, Italy. She joined Charles River Laboratories in 2015 where, since 2016, she acts as Designated Veterinarian of the Italian site and collaborates with Research and Academic Institutions providing Education and Training support. Since 2017, Sara is enrolled by Milan University (Italy) for the lecturing of the module “Pain and Distress in Laboratory Animals” within the Advanced Course on Laboratory Animal Welfare and Animal Care. She is currently supporting King Abdullah University of Science and Technology Animal Resources Core Lab providing veterinary consultancy.



Dr. Francesca Galbiati obtained her PhD in Immunology at the Université Paul Sabatier Toulouse in France discussing a thesis on the in vivo tolerance induction and selective development of different T helper cells subsets dedicating part of her work trying to define Th1 mediated autoimmune diseases. After a collaboration of about 8 years and then a Post-Doctoral training at Hoffmann La Roche in Milano (Italy), she joined the group of the Telethon Institute for Gene Therapy continuing her studies in autoimmunity prevention and tolerance induction. Alongside her career in the Biomedical Research, she has authored several peer-reviewed research articles and book chapters. In 2000, she joined Charles River Laboratories, where she is now managing the Genetically Engineered Mouse Model and Services Department in Calco, Italy.