



مختبر مكافحة  
المنشطات قطر  
Anti Doping  
Lab Qatar

## NOVEL CHALLENGES & BIOMARKERS DISCOVERY

10th Annual ADLQ Symposium

9th - 11th May 2023,

Aspire Academy Auditorium, Doha

### DAY ONE, 9th MAY 2023

#### SCIENTIFIC TRAINING AND SUCCESSION PLANNING

MC – Sara Al-Darwish

Anti-Doping Laboratory Qatar

08:00 – 09:00

#### Registration and Networking

#### SESSION 1:

#### WELCOME & OPENING REMARKS

09:00 – 09:10

##### Welcome

Professor Mohammed Al-Maadheed,  
University College London/Anti-Doping Laboratory Qatar/Naufar

09:10 – 09:30

##### The first 10 years!

Professor David Lomas,  
University College London

#### SESSION 2:

#### SCIENTIFIC TRAINING & TALENT MANAGEMENT

Moderator: Professor David Abraham  
University College London

09:30 – 10:00

##### Academic training at ADLQ.

Professor Vidya Mohamed-Ali,  
University College London/Anti-Doping Laboratory Qatar

10:00 – 10:30

##### Non-residential post-graduate at UCL.

Professor Markella Ponticos,  
University College London

10:30 – 11:00

#### COFFEE

11:00 – 11:30

##### Analytical Centre of Excellence.

Professor Alka Beotra,  
Anti-Doping Laboratory Qatar

11:30 – 12:00

##### Talent Management Department.

Noor Al-Madfa,  
Anti-Doping Laboratory Qatar

#### SESSION 3:

#### PhD STUDENTS' PRESENTATIONS

Moderator: Dr. Nelson Orie  
University College London

12:00 – 12:30

##### Turkesterone, a novel ecdysteroid: development of analytical approaches for different biological matrices, microsampling and pharmacokinetics.

Noor Al-Naemi,  
University College London/Anti-Doping Laboratory Qatar

12:30 – 13:00

##### Investigation of the strategic decision-making (SDM) models and assessment of its impact on Qatar's healthcare system.

Fatima Al-Hatimy,  
University College London/Anti-Doping Laboratory Qatar

13:00 – 13:30

##### Investigation of novel biomarkers for COVID19- to predict severity of the disease using OMICs technologies.

Dr. Maryam Al-Nesf,  
University College London/ Hamad Medical Corporation

13:30 – 14:30

#### LUNCH



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14:30 – 15:00 Investigation of camel-derived V<sub>H</sub>H fragments in inflammatory fibrotic signaling.

Nada Mohamed-Ali,  
University College London

#### SESSION 4: THE PhD JOURNEY AND BEYOND

Moderator: Professor Markella Ponticos  
University College London

15:00 – 15:30 Diet-induced obesity model in rats: the case of cafeteria diet.

Dr. Hamda Aboujassoum,  
University College London/Qatar University

15:30 – 16:00 Investigation of ecdysteroids metabolism and their human physiological effects.

Dr. Maneera Al-Jaber,  
University of Bristol/ Anti-Doping Laboratory Qatar

16:00 – 16:30 Changes in moderate-to-vigorous-intensity physical activity across childhood and adolescence: insights from longitudinal studies.

Dr. Abdulaziz Farooq,  
University of Strathclyde/Aspetar, Orthopaedic and Sports Medicine Hospital

16:30 – 17:00 Genomics and metabolomics of elite athletes reveal distinct signatures associated with power and endurance sports class.

Dr. Fatima Al-Khelaifi,  
University College London/Anti-Doping Laboratory Qatar

#### 17:00 – 18:00 Panel 1 – The way forward

Lead - Professor David Lomas

(Professor Mohammed Al-Maadheed, Professor Vidya Mohamed-Ali,  
Professor David Abraham, Professor Markella Ponticos, Noor Al-Motawa)

### DAY TWO, 10th MAY 2022

#### SUBSTANCE USE DISORDERS AND DOPING IN SPORT

MC – Fay Al-Hajri

Naufar, Wellness & Recovery Center

08:00 – 08:50 **Networking**

#### SESSION 5: SPORT DOPING AND SUDS, PLUS ATHLETES' FORUM

08:50 – 09:00 **Welcome**

Professor Mohammed Al-Maadheed,  
University College London/Anti-Doping Laboratory Qatar/Naufar, Wellness & Recovery Center

09:00 – 09:30 **Why do athletes take drugs?**

Professor David Mottram,  
Liverpool John Moores University



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#### SUBSTANCE USE DISORDERS AND DOPING IN SPORT

MC – Fay Al-Hajri

Naufar, Wellness & Recovery Center

09:30 – 10:00 **The links between doping and addictions.**  
Professor Amine Benyamina,  
Université Paris Saclay

**10:00 – 10:30 Panel 2 – Athletes' perspective**  
Lead – Professor Mohammed Al-Maadheed  
(*HE Khaled Al-Maadheed, Professor Amine Benyamina, Professor Karim Chamari*)

10:30 – 11:00 **COFFEE**

**SESSION 6: SPORT DOPANTS AND ILLICIT DRUGS**  
Moderator: Dr. Pieter D'Hooghe  
Aspetar, Orthopaedic and Sports Medicine Hospital

11:00 – 11:30 **WADA list and illicit drugs.**  
Professor Olaf Schumacher,  
Aspetar, Orthopaedic and Sports Medicine Hospital.

11:30 – 12:00 **Substance abuse in Qatar.**  
Dr. Rama Kamal,  
Naufar, Wellness & Recovery Center

12:00 – 12:30 **Managing stress and anxiety in elite athletes.**  
Dr. Karim Khalladi,  
Aspetar, Orthopaedic and Sports Medicine Hospital

12:30 – 13:00 **Roads to Recovery.**  
Dr. Abdulla Al-Johi,  
Naufar, Wellness & Recovery Center

13:00 – 14:00 **LUNCH**

**SESSION 7: SPORT DOPANTS AND ILLICIT DRUGS**  
Moderator: Dr Makoto Ueki  
Anti-doping Group, OCA

14:00 – 14:30 **Authentication of samples.**  
Dr. Maneera Al-Jaber,  
Anti-Doping Laboratory Qatar/Naufar, Wellness & Recovery Center

14:30 – 15:00 **Strategies to detect gene doping.**  
Dr. Chidam Manickam,  
Anti-Doping Laboratory Qatar

15:00 – 15:30 **Effects of COVID19- on football: attitudes and mental status of the players and preventative measures for game resumption.**  
Professor Karim Chamari,  
Aspetar, Orthopaedic and Sports Medicine Hospital

**15:30 – 16:30 Panel 3 – Discussion of day two**  
Lead – Professor Mohammed Al-Maadheed  
*All speakers*



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#### BIOMARKERS DISCOVERY

MC – Sofia Salama

Anti-Doping Laboratory Qatar

08:00 – 09:00

Networking

#### SESSION 8:

##### WELCOME & MINISTERIAL ADDRESS

09:00 – 09:15

##### Welcome

Professor Mohammed Al-Maadheed,  
University College London/Anti-Doping Laboratory Qatar/Naufar, Wellness & Recovery Center

09:15 – 09:30

##### Ministerial Address

His Excellency Mr Salah bin Ghanim Al-Ali,  
Minister of Sports and Youth

09:30 – 09:55

##### WADA's perspective on biomarker discovery.

Professor Olivier Rabin,  
World Anti-Doping Agency

09:55 – 10:25

##### Notes on evolution of analytical biomarkers for substance abuse in sport.

Professor Jordi Segura,  
IMIM-Hospital del Mar Research Institute

10:25 – 11:00

##### COFFEE

#### SESSION 9:

##### OMICS & BIOMARKERS

Moderator: Professor Vidya Mohamed-Ali  
University College London/Anti-Doping Laboratory Qatar

11:00 – 11:30

##### Biomarkers in steroid analysis.

Professor Peter Van Eenoo,  
DoCoLab: Doping control laboratory/University of Ghent

11:30 – 12:00

##### Metabolomics in anti-doping.

Professor Alka Beotra,  
Anti-Doping Laboratory Qatar

12:00 – 12:30

##### From markers of exposure to markers of effect: new analytical approaches to detect doping in sport.

Professor Francesco Botrè,  
Laboratorio Antidoping, Federazione Medico Sportiva Italiana

12:30 – 13:30

##### LUNCH

13:30 – 14:00

##### Panel 4 – QADC & RADOS discussion Forum

Lead – Dr. Abdulwahab Al-Musleh  
(Professor Olivier Rabin, Professor Mohammed Al-Maadheed, Dr. Sumayah Aljenedil & all WADA laboratory Directors)

#### SESSION 10:

##### OMICS & BIOMARKERS

Moderator: Professor David Lomas

14:00 – 14:30

##### Biomarkers in inflammatory disease.

Professor David Abraham,  
University College London



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Anti-Doping Laboratory Qatar

14:30 – 15:00 Potential of endogenous steroid sulfate metabolites as markers of testosterone misuse.  
Dr. Rosa Ventura,  
Catalonian Antidoping Laboratory, Doping Control Research Group, Fundació IMIM.

15:00 – 15:30 Forensic testing services in Qatar.  
Major. Saleh Ahmad Al-Saadi,  
Qatar Forensics laboratory

15:30 – 16:00 **COFFEE**

#### **SESSION 11: SAMPLE MATRIX AND DELIVERY**

Moderator: Dr. Makoto Ueki,  
Anti-doping Group, OCA

16:00 – 16:30 Drone delivery of anti-doping samples.  
Ibrahim Al-Mohannadi,  
Anti-Doping Laboratory Qatar

16:30 – 17:00 Liquid vs dried blood matrices for the determination of the biomarkers of the endocrine module of the Athletes Biological Passport.  
Dr. Monica Mazzarino,  
Anti-Doping Laboratory Qatar

17:00 – 17:30 Panel 5 – Outcomes of the symposium  
Lead – Professor Mohammed Al-Maadheed  
(Dr. Abdulwahab Al-Musleh, Dr Olivier Rabin, Professor David Lomas,  
Professor Amine Benyamina, Professor Vidya Mohamed-Ali)

*Close of Symposium*