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INTERNATIONAL  
ATHEROSCLEROSIS  
SOCIETY

IN COLLABORATION WITH



## DIAGNOSIS & MANAGEMENT OF GENETIC LIPID DISORDERS MASTERCLASS

# SCIENTIFIC AGENDA

**23-24 JANUARY 2026**

Mohamed Bin Khalifa Bin Salman  
Specialists Cardiac Center (MKCC)  
Kingdom of Bahrain

MANAGED BY





# DAY ONE

*23 JANUARY 2026*

# DIAGNOSIS & MANAGEMENT OF GENETIC LIPID DISORDERS MASTERCLASS

IN COLLABORATION WITH



08:00-08:45

## REGISTRATION & OPENING

08:45-09:00

## WELCOME & INTRODUCTIONS

09:00-09:30

## OPENING CEREMONY

09:00-09:45

## SESSION: LIPOPROTEIN METABOLISM - FROM BIOCHEMISTRY TO GENETICS

09:30-09:45

**Overview of major lipoproteins, their functions & metabolism**  
Gilles Lambert

09:45-10:00

**Epidemiology of dyslipidemia and its implications**  
Samia Mora

10:00-10:15

**Polygenic vs. monogenic inheritance patterns in lipid disorders**  
Raul Santos

10:15-10:25

**Q&A Session**

10:25-10:40

## COFFEE BREAK

10:40-11:05

## SESSION: GENETIC DISORDERS OF LDL METABOLISM

**Familial hypercholesterolemia: Epidemiology, genetics and clinical presentation**  
Marianne Abi Fadel

11:05-11:20

**The evolving landscape of genetic testing for hypercholesterolemia and role of cascade screening**  
Raul Santos

11:20-11:35

**Genetic causes of low LDL, diagnosis and clinical presentation**  
Dirk Blom

11:35-11:45

**Q&A Session**

11:45-11:55

**Presentation of Clinical Cases - FH**

11:55-13:10

## LUNCH BREAK

13:10-13:25

## SESSION: UNRAVELING THE COMPLEXITY OF HYPERTRIGLYCERIDEMIA AND RARE DISORDERS

*TOPIC: GENETIC BASIS OF HYPERTRIGLYCERIDEMIA (HTG)*

**Monogenic causes of severe hypertriglyceridemia**  
Raul Santos

13:25-13:40

**Clinical implications of hypertriglyceridemia**  
Dirk Blom

13:40-13:50

**Q&A Session**

# DIAGNOSIS & MANAGEMENT OF GENETIC LIPID DISORDERS MASTERCLASS

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## TOPIC: GENETIC DISORDERS OF HDL METABOLISM

- 13:50-14:05 **Genetic causes of low HDL cholesterol and implications for cardiovascular and kidney disease**  
Raul Santos
- 14:05-14:20 **Genetic causes of high HDL cholesterol and their clinical significance**  
Raul Santos
- 14:20-14:30 **Q&A Session**

## 14:30-14:55 COFFEE BREAK & GROUP PHOTO

## TOPIC: RARE GENETIC LIPID DISORDERS

- 14:55-15:10 **Exploring sterol disorders- From SLO to CTX via STLS**  
Gilles Lambert
- 15:10-15:25 **Dysbetalipoproteinaemia**  
Dirk Blom
- 15:25-15:35 **Q&A Session**
- 15:35-15:55 **Presentation of Clinical Cases for Hypertriglyceridemia & Rare Disorders**

## SESSION: WHAT TO KNOW ABOUT LIPOPROTEIN(A)

- 15:55-16:10 **An introduction to Lp(a) - Genetics, Structure and Metabolic Pathways**  
Gilles Lambert
- 16:10-16:25 **Targeting Lp(a): Clinical Risk Assessment and the Emergence of Novel Therapeutic Strategies for Cardiovascular Disease**  
Samia Mora
- 16:25-16:35 **Q&A Session**





DAY TWO

*24 JANUARY 2026*

# DIAGNOSIS & MANAGEMENT OF GENETIC LIPID DISORDERS MASTERCLASS

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## SESSION: DIAGNOSIS AND SCREENING

*TOPIC: ADVANCED DIAGNOSTIC TOOLS IN GENETIC LIPID DISORDERS*

- 08:00-08:15 **Sequencing approaches and genetic testing in lipid disorders**  
Marianne Abi Fadel
- 08:15-08:30 **Phenotype-genotype correlations and their clinical utility**
- 08:30-08:45 **Lecture**
- 08:45-08:55 **Q&A Session**

*TOPIC: GENETIC SCREENING AND CASCADE TESTING*

- 09:00-09:15 **Premarital FH screening**  
Mutaz Al-Khnifsawi
- 09:15-09:30 **Therapeutic challenges in managing HoFH**  
Derick Raal
- 09:30-09:45 **LDL apheresis: Who, when, and how**
- 09:45-09:55 **Q&A Session**

09:55-10:10 **COFFEE BREAK**

## SESSION: MANAGEMENT OF LIPID DISORDERS

- 10:10-10:30 **Pharmacological management of hypercholesterolemia: Statins, ezetimibe, bempedoic acid and lomitapide**  
Samia Mora & Dirk Blom
- 10:30-10:50 **Pharmacological management of hypercholesterolemia: PCSK9 inhibitors and inclisiran**  
LDL apheresis: Who, when, and how  
Derick Raal
- 10:50-11:05 **Gene therapy**  
Dirk Blom
- 11:05-11:30 **Therapeutic approaches for hypertriglyceridemia: Fibrates, omega-3 fatty acids, volanesorsen, olezarsen, plazasiran and zodasiran**  
Dirk Blom
- 11:30-11:45 **Q&A Session**

11:45-13:00 **LUNCH BREAK**

# DIAGNOSIS & MANAGEMENT OF GENETIC LIPID DISORDERS MASTERCLASS

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## SESSION: GENETIC LIPID DISORDERS IN PEDIATRIC POPULATIONS AND WOMEN'S HEALTH

- 13:00-13:15 **Early diagnosis and management of genetic lipid disorders in children**  
Dirk Blom
- 13:15-13:30 **The impact of hormonal changes on lipid levels in the context of genetic predispositions**  
Nasreen Alsayed
- 13:30-13:45 **Management considerations during pregnancy and lactation**  
Derick Raal
- 13:45-13:55 **Q&A Session**

## 13:55-14:15 COFFEE BREAK

## SESSION: THE FUTURE OF GENETIC LIPID DISORDER RESEARCH AND CLINICAL CARE

- 14:15-14:30 **Precision medicine approaches tailored to individual genetic profiles**  
Raul Santos
- 14:30-14:45 **The role of omics and artificial intelligence in diagnosis and personalized treatment**  
Samia Mora
- 14:45-15:30 **How to use social media effectively**  
Mutaz Al-Khnifsawi & Michelle Winokur
- 15:30-16:15 **Addressing unmet needs and future directions in the field**

## 16:15-16:45 CONCLUDING REMARKS, CERTIFICATE PRESENTATION AND ADJOURNMENT