

ADVANCED COURSE

The second genome: mitochondrial genetics
– from genotype to phenotype and clinical expression –

Registration Form:

Name: _____

Title: _____ Position: _____

Institution: _____

Scientific area: _____

Address: _____

Name in the receipt (if different): _____

NIF: _____

Reason for interest in the course:

Tour to old University: YES NO

Dinner 26-10-2009: YES NO

Dinner 27-10-2009: YES NO

The registration is valid after payment (table annex) by bank transfer to NIB 007900001849415510166 reference "INITIALS-Surname".

The fee includes all meals and tour.

Secretary:

Rosa Fernandes

Pólo III – Subunidade I de Ensino
Azinhaga de Sta. Comba Celas
3000-354 COIMBRA—PORTUGAL

Tel. +351-239-480038

Fax. +351-239-480048

E-mail: mtDNACourse09PT@gmail.com

SPONSORS :

AB Applied Biosystems

REAGENTES 5 QUÍMICA E ELETRÓNICA, LDA.

BIO-RAD

VWR

alfagene

ADVANCED COURSE

26 - 28 OCTOBER, 2009

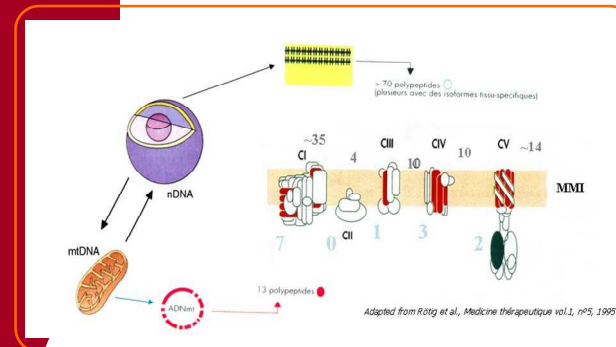
The second genome: mitochondrial genetics
– from genotype to phenotype and clinical expression –

Organizer:

Manuela Grazina

Faculty of Medicine of
Coimbra
and Centre for
Neuroscience and Cell
Biology University of
Coimbra

Pólo III –
Subunidade I de Ensino
Azinhaga de Sta. Comba
Celas
3000-354 COIMBRA



Teaching:

Manuela Grazina, PhD
Fernando Scaglia, MD, PhD
Robert Taylor, MD, PhD
Luisa Pereira, PhD
Francisco Corte-Real, MD, PhD
Luisa Diogo, MD
Carmo Macário, MD
Paula Garcia, MD

Objectives and scope

This course is directed to students and professionals aiming to understand mitochondrial genetics and related concepts.

The course (three days, Monday to Wednesday) will teach the singular characteristics of mitochondrial genome (mtDNA). The involvement of mtDNA as a primary cause of disease, in aging, neurodegeneration and other pathologies will be evaluated. Additionally, the review of modern approaches in mtDNA investigation for medical and research applications will provide valuable tools to the participants, for understanding the particular characteristics of the second genome and its role in health and disease.

Programme:

26-10-2009 (Anfiteatro 1, Unidade Central do Pólo III)

Course Opening - 9h30m, Manuela Grazina, Catarina Resende de Oliveira (President of CNC-UC), Manuel Santos Rosa (Director of FMUC)

Basic concepts; mtDNA characteristics – 10h, Manuela Grazina

Coffee brake: 10h45m

Sneak-pick to mtDNA-nuclear genome interaction – 11h, Fernando Scaglia

Dual genome regulation of oxidative phosphorylation pathway; correlation genotype-phenotype – PAPER DISCUSSION – 12h, Manuela Grazina, Fernando Scaglia

Lunch: 13h – 14h30m

Role of mtDNA as a genetic marker – 14h30m, L. Pereira

Contribution of mtDNA to aging and diversity – PAPER DISCUSSION – 15h30m, Manuela Grazina, Luisa Pereira

Coffee brake: 16h30m

mtDNA in forensic science – 16h45m, Francisco Corte-Real

Dinner: 20h

27-10-2009 (Anfiteatro 2, Sub-Unidade 1 do Pólo III)

Diseases of bi-genomic origin and role of mtDNA in pathology – 10h, Manuela Grazina

Coffee brake: 10h45m

Update in depletion syndromes – 11h, Fernando Scaglia

Adult manifestations of mitochondrial disease – 12h, Carmo Macário

Lunch: 13h – 14h00m

Brain deficiency from mitochondrial origin – 14h00m, Paula Garcia

Cardiac failure in children with mitochondrial diseases – 15h00m, Luísa Diogo

Coffee brake: 16h00m

Tour to old University: 16h15m

Dinner: 20h

28-10-2009 (Anfiteatro do IBILI do Pólo III)

Involvement of mtDNA in neurodegeneration and autism – 10h, Manuela Grazina

Coffee brake: 10h45m

Experimental strategies for mitochondrial cytopathies investigation– 11h, Rob Taylor

Models of mtDNA disease and transmission and gene therapy approach in mitochondrial disorders – PAPER DISCUSSION – 12h, Manuela Grazina, Rob Taylor

Lunch: 13h – 14h30m

MEET THE EXPERTS SESSION:

Investigation and Diagnosis of Mitochondrial Diseases – 14h30m, Rob Taylor, Fernando Scaglia, Manuela Grazina

Open Seminar: Diagnostic Work-up of Mitochondrial Cytopathies – 15h30m, Fernando Scaglia