



MAX-PLANCK-GESELLSCHAFT

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EUROMIT 7

The seventh European Meeting on Mitochondrial Pathology

- From basic mechanisms to disease and ageing

Stockholm, Sweden June 11-14 2008

June 11	
13.00-15.00	Registration
15.00-15.10	Welcome Nils-Göran Larsson and Claes Gustafsson
15.10-15.20	Eulogy Rolf Luft Nils-Göran Larsson
15.20-15.30	Eulogy Giuseppe Attardi Julio Montoya
15.30-16.30	Keynote Lecture Salvatore DiMauro <i>"Primary mtDNA mutations: 20 years on"</i>
16.30-16.45	Short break
16.45-17.00	Introductory remarks Nils-Göran Larsson and Claes Gustafsson
17.00-18.00	Session I: Fission and fusion of mitochondria Chair: Nils-Göran Larsson
17.00-17.30	David Chan <i>"Physiological functions of mitochondrial fusion and fission"</i>
17.30-17.45	Poster talk 1: Dzamilja Safiulina <i>"Mitochondrial GTPase Miro1 regulates mitochondrial transport in neurons"</i>
17.45-18.00	Poster talk 2: Valerio Carelli <i>"OPA1 mutations induce mitochondrial DNA instability and optic atrophy plus phenotypes"</i>
19.00-21.00	Welcome Cocktail / Buffet Dinner

June 12	
09.00-10.30	Session II: Mitochondrial disease
	Chair: Jan Smeitink
09.00-09.30	Douglass Turnbull <i>“Current and future treatments for mitochondrial disease”</i>
09.30-09.45	Poster talk 3: Valeria Massa <i>“Severe infantile encephalomyopathy caused by a mutation in COX6B1, a nucleus-encoded subunit of cytochrome c oxidase”</i>
09.45-10.00	Poster talk 4: Sabrina Sacconi <i>“A functionally dominant mitochondrial DNA mutation”</i>
10.00-10.30	James Stewart <i>“Strong purifying selection in transmission of mammalian mitochondrial DNA”</i>
10.30-11.00	Coffee break
11.00-12.30	Session II: Mitochondrial disease (cont.)
11.00-11.30	Anders Oldfors <i>“Neuropathology in diseases associated with POLG mutations”</i>
11.30-11.45	Poster talk 5: Gittan Kollberg <i>“Myopathy with deficiency of succinate dehydrogenase and aconitase together with cardiomyopathy associated with mutations in ISCU”</i>
11.45-12.00	Poster talk 6: Elsebet Ostergaard <i>“Deficiency of the alpha subunit of succinate-CoA ligase causes fatal infantile lactic acidosis with mtDNA depletion”</i>
12.00-12.30	Kari Majamaa <i>“Kari Majamaa: MELAS – more than encephalomyopathy, more than m.3243A>G”</i>
12.30-14.00	Lunch
14.00-16.00	Session III: mtDNA maintenance and replication
	Chair: Eric Shoubridge
14.00-14.30	Dan Bogenhagen <i>“MtDNA Replication: from molecular to cell biology”</i>
14.30-15.00	Maria Falkenberg <i>Human mitochondrial RNA polymerase primes lagging-strand DNA synthesis in vitro.</i>
15.00-15.15	Poster talk 7: Emmanuelle Sarzi <i>“Mutations of PEO1 gene encoding Twinkle helicase cause mitochondrial DNA depletion.”</i>
15.15-15.30	Poster talk 8: Wolfram S Kunz <i>“Clonally expanded mitochondrial DNA mutations in epileptic individuals with mutated DNA polymerase γ”</i>
15.30-16.00	Ian Holt <i>“Mitochondrial DNA Replication and Maintenance”</i>
16.00-18.00	Posters & bar
	Posters with odd numbers presented
18.00-19.30	Dinner
19.30-21.00	Session III: mtDNA maintenance and replication (cont.)
19.30-20.00	Anu Suomalainen <i>“MtDNA maintenance defects: variable phenotypes and molecular pathogenesis”</i>
20.00-20.15	Poster talk 9: Takaoki Kasahara <i>“Transgenic mice with neuron-specific mitochondrial DNA defects as a model for bipolar disorder”</i>
20.15-20.30	Poster talk 10: Tuula Lönnqvist <i>“Epileptic encephalopathy in patients with recessive PEO1 mutations”</i>
20.30-21.00	Massimo Zeviani <i>“In vivo models of mitochondrial disease: lessons, confirmations and some surprises”.</i>

June 13	
09.00-10.30	Session IV: Import and assembly of respiratory chain complexes Chair: Ian Holt
09.00-09.30	José A. Enriquez <i>"Respiratory active mitochondrial supercomplexes"</i>
09.30-09.45	Poster talk 11: Rutger Vogel <i>"The identification of chaperone complexes for mitochondrial complex I assembly"</i>
09.45-10.00	Poster talk 12: Yavuz Oktay <i>"The respiratory supercomplex is super complex: The AAC2 interactome and the importance of cardiolipin."</i>
10.00-10.30	Jan Smeitink <i>"Human Complex I: structure, function and pathology"</i>
10.30-11.00	Coffee break
11.00-12.30	Session V: Mitochondrial disease pathophysiology
11.0-11.15	Poster talk 14: Tina Wenz <i>"Activation of the PPAR/PGC pathway prevents a bioenergetic deficit and effectively improves a mitochondrial myopathy phenotype"</i>
11.15-11.30	Poster talk 14: Håkan Westerblad <i>"Contractile dysfunction and changes in cytosolic and mitochondrial Ca²⁺ handling in a mouse model of mitochondrial myopathy"</i>
11.30-12.00	Jun-Ichi Hayashi <i>"Role of mtDNA mutations in metastasis"</i>
12.00-12.15	Poster talk 15: Hiroshi Shitara <i>"The mtDNA bottleneck without reduction of its content"</i>
12.15-12.30	Poster talk 16: Patrick Chinnery <i>"Defining the mammalian mitochondrial genetic bottleneck: are single mtDNA molecules the segregating unit?"</i>
12.30-14.00	Lunch
14.00-16.00	Session VI: mtDNA translation and proteolysis Chair: Howard T Jacobs
14.00-14.30	Zofia Chrzanowska-Lightowlers <i>"Starting at the end - translation termination in human mitochondria"</i>
14.30-15.00	Eric Shoubridge <i>"Lost in (mitochondrial) translation"</i>
15.00-15.30	Ann Saada <i>"Nuclear encoded mitochondrial translation disorders."</i>
15.30-16.00	Elena Rugarli <i>"The mitochondrial m-AAA protease: a culprit in neurodegeneration"</i>
16.00-18.00	Posters & bar/sandwich Posters with even numbers presented
18.00-20.00	Session V: mtDNA transcription Chair: Bob Lightowlers
18.00-18.30	Claes Gustafsson <i>"Initiation of DNA replication at mitochondrial origins of DNA replication."</i>
18.30-18.45	Poster talk 17: Dmitry Markov <i>"Identification of proteins associated with yeast mitochondrial RNA polymerase by tandem affinity purification provides new insights into mechanisms of transcription regulation"</i>
18.45-19.00	Poster talk 18: Dmitry Temiakov <i>Molecular organization of human mitochondrial transcription initiation complex</i>
19.00-19.30	Donchong Kang <i>"Promoter-independent RNA synthesis activity of human mitochondrial RNA polymerase: its implication in biased RNA accumulation in mtDNA"</i>
19.30-20.00	Nils-Göran Larsson <i>"MTERF3 is a negative regulator of mtDNA transcription"</i>

June 14	
09.00-11.00	Session VII: Reactive oxygen species, ageing and mitochondria Chair: José A. Enriquez
09.00-09.30	Pierre Rustin <i>"Tracking down excessive mitochondrial superoxides"</i>
09.30-10.00	Howard T Jacobs <i>"AOX therapy for mitochondrial diseases"</i>
10.00-10.15	Poster talk 19: Tim J Schulz <i>"Increased oxidative stress extends Caenorhabditis elegans lifespan: The concept of mitohormesis"</i>
10.15-10.30	Poster talk 20: Maria Monsalve <i>"PI3K/AKT dependent inactivation of Foxo3a mediates nitric oxide induced PGC-1α downregulation"</i>
10.30-11.00	Aleksandra Trifunovic <i>"Deleterious point mutations in protein coding genes drive premature ageing in mtDNA mutator mice"</i>
11.00-11.30	Coffee break
11.30-13.00	Session VIII: Mitochondrial DNA precursor metabolism and human disease Chair: Dan Bogenhagen
11.30-12.00	Vera Bianchi <i>"Enzyme networks for mtDNA precursor synthesis"</i>
12.00-12.15	Poster talk 21: Agnes Rötig <i>"Mutations of p53R2, encoding p53-controlled ribonucleotide reductase subunit, cause severe mitochondrial DNA depletion"</i>
12.15-12.30	Poster talk 22: Luis C Lopez <i>"Mitochondrial dNTPs unbalance cause late-onset brain mitochondrial DNA depletion and leukoencephalopathy in Thymidine Phosphorylase/Uridine Phosphorylase Knockout mice"</i> Anna Karlsson
12.30-13.00	<i>"Progressive loss of mitochondrial DNA in thymidine kinase 2 deficient mice"</i>
13.00-14.30	Lunch
14.30-15.30	Keynote Lecture: Douglas Wallace <i>"Animal models of mitochondrial disease: pathophysiology and therapeutics"</i>
15.30-16.00	Synopsis/Closing remarks Douglass Turnbull
18.00-	Boat trip to the archipelago and big Gala dinner