

# ICPMB 2011 Detailed Programm

## Saturday, 14.05.2011

15:00 - 17:00	Registration
17:00 - 18:00	Reception
18:00 - 19:30	Dinner
19:30 - 19:40	Opening
19:40 - 21:10	<b>Session I: Mitochondrial evolution</b> Chair: Ian Small
19:40 - 20:05	<b>Bill Martin:</b> Mitochondria and the energetics of genome complexity
20:05 - 20:30	<b>Franz Lang:</b> Eukaryotic origins - a mitochondrial and bacterial perspective
20:30 - 20:55	<b>Volker Knoop:</b> Plant mitochondrial peculiarities evolving in the earliest vascular plant lineages
20:55 - 21:10	<b>Daniel Sloan:</b> Mutator mitochondria exhibit rapid evolution of genomic obesity in flowering plants

## Sunday, 15.05.2011

09:00 - 10:30	<b>Session II: Organellar genomes</b> Chair: Tom Börner
09:00 - 09:25	<b>Sally Mackenzie:</b> Double strand break repair drives mitochondrial genome evolution in plants
09:25 - 09:45	<b>Jose Gualberto:</b> Recombination in the stability, repair and evolution of plant mitochondrial genomes
09:45 - 10:00	<b>Emilia Cincu:</b> Impaired chloroplast and mitochondrial functions affect the abundance of mitochondrial genomes in Arabidopsis and tobacco
10:00 - 10:15	<b>Ying-Thi Xu:</b> MSh1 is a multi-functional protein in plants that alters mitochondrial and plastid properties and response to high light
10:15 - 10:30	<b>Pascal Touzet:</b> Structural and content diversity of mitochondrial genome in gynodioecious beet: a comparative genomic analysis
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Session III: Transcription &amp; RNA processing</b> Chair: Linda Bonen
11:00 - 11:25	<b>Thomas Börner:</b> Promoter recognition by phage-type polymerases
11:25 - 11:45	<b>Philippe Giegé:</b> Pentatricopeptide repeat proteins with RNase P activity
11:45 - 12:00	<b>Mamoru Sugita:</b> The moss PPR-DYW proteins are required for RNA editing and RNA splicing of mitochondrial transcripts
12:00 - 12:15	<b>Catherine Colas des Francs-Small:</b> WTF9 is a mitochondrial splicing mutant affected in CytC biogenesis
12:15 - 12:30	<b>Christian Jonietz:</b> Identification of RPF3, a mitochondrial RNA 5' processing factor
12:30 - 14:00	Lunch
15:00 - 16:30	<b>Session IV: Mitochondrial metabolism &amp; signalling</b> Chair: Christoph Peterhänsel
15:00 - 15:25	<b>James Whelan:</b> Defining the regulatory context of nuclear genes encoding mitochondrial proteins: forward and reverse genetic approaches
15:25 - 15:50	<b>Veronica Maurino:</b> Degradation of methylglyoxal and lysine is linked to the TCA cycle and the electron transport chain through mitochondrial D-2-hydroacid dehydrogenases
15:50 - 16:15	<b>Hanna Janska:</b> Regulation of bi-genomic biogenesis of the oxidative phosphorylation system in response to a defect in assembly of mitoribosomes
16:15 - 16:30	<b>Iris Finkemeyer:</b> Does lysine acetylation play a role in the regulation of mitochondrial energy metabolism?
16:30 - 17:00	Coffee Break
17:00 - 19:00	<b>Poster session I (even poster numbers)</b>
19:00	Dinner

## Monday, 16.05.2011

09:00 - 10:30	<b>Session V: Respiration</b> Chair: Harvey Millar
09:00 - 09:25	<b>Daniel Gonzalez:</b> Arabidopsis homologues of mitochondrial copper chaperones SCO1, COX17 and COX19: More than COX assembly factors
09:25 - 09:45	<b>Markus Schwarzländer:</b> Pulsing mitochondria: the dynamics of membrane potential
09:45 - 10:00	<b>Janneke Balk:</b> The role of the Fe-S protein IND(L) in complex I assembly and additional mitochondrial functions
10:00 - 10:15	<b>Etienne Meyer:</b> Composition and assembly of the membrane arm of Arabidopsis Complex I
10:15 - 10:30	<b>Peter Schertl:</b> L-galactono-1,4-lactone dehydrogenase forms part of three distinct complexes in Arabidopsis thaliana mitochondria
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Session VI: Alternative respiration &amp; ROS</b> Chair: Ian Max Møller
11:00 - 11:25	<b>Allan Rasmusson:</b> Regulation of cellular pyridine nucleotide redox levels by alternative respiratory pathways
11:25 - 11:50	<b>Tony Moore:</b> The crystal structure of the cyanide-insensitive alternative oxidase at 2.6 Å
11:50 - 12:15	<b>Santiago Ramirez:</b> Regulation of respiration: a role for alternative (metabolic) pathways
12:15 - 12:30	<b>Adriano Nunes-Nesi:</b> Alternative electron donors linking lysine catabolism to the mitochondrial electron transport chain of Arabidopsis
12:30 - 14:00	Lunch
15:00 - 16:25	<b>Session VII: CMS &amp; fertility restoration</b> Chair: Sally Mackenzie
15:00 - 15:25	<b>Françoise Budar:</b> Cytoplasmic diversity and nucleo-cytoplasmic co-adaptation in <i>A. thaliana</i>
15:25 - 15:45	<b>Sota Fujii:</b> Diversifying selection of restorer-like genes reveal a conflict between nuclear and mitochondrial genomes throughout angiosperm history
15:45 - 16:05	<b>Rita Groß-Hardt:</b> Mitochondrial dysfunction in the gametic central cell extends the lifespan of adjacent accessory cells
16:05 - 16:25	<b>Xiaodong Yang:</b> Mitochondrial retrograde regulating nuclear genes expression is probably via ATP-dependent pathway in cytoplasmic male-sterile <i>Brassica juncea</i>
16:30 - 17:00	Coffee Break
17:00 - 19:00	<b>Poster session II (odd poster numbers)</b>
19:00	Dinner
20:00 - 21:00	Classical concert at the historical church in Mansbach

## Tuesday, 17.05.2011

09:00 - 10:30	<b>Session VIII: Mitochondrial stress response</b> Chair: Lee Sweetlove
09:00 - 09:25	<b>Harvey Millar:</b> The key role of Complex II derived reactive oxygen species in influencing plant stress gene regulation and defence
09:25 - 09:50	<b>Ian Max Møller:</b> Reactive Oxygen Species (ROS) and retrograde stress signalling from mitochondria and chloroplasts
09:50 - 10:10	<b>Nicolas Taylor:</b> Chemical and environmental stresses do alter mitochondrial respiratory complex abundance
10:10 - 10:30	<b>Elke Ströher:</b> Knockdown of mitochondrial-located Glutaredoxin S15 reveals a role in tolerance to ETC inhibition and arsenic toxicity
10:30 - 11:00	Coffee Break
11:00 - 12:35	<b>Session IX: RNA editing</b> Chair: Jose Gualberto
11:00 - 11:25	<b>Ian Small:</b> Species-specific and organelle-specific features of RNA editing in plants
11:25 - 11:45	<b>Mizuki Takenaka:</b> PPR proteins network as site specific recognition factors in plant mitochondria
11:45 - 12:05	<b>Stephane Bentolila:</b> Natural variation in Arabidopsis leads to the identification of two PPR-DYW proteins involved in mitochondrial editing
12:05 - 12:20	<b>Mareike Rüdinger:</b> Early evolution of RNA editing and the DYW-type PPR proteins: the model plant <i>Physcomitrella</i> , the related moss <i>Funaria</i> and the heterolobosean protist <i>Naegleria</i>
12:20 - 12:35	<b>Frank Kempken:</b> Clues for RNA editing from in organello and RNA-binding assays
12:35 - 14:00	Lunch
14:00 - 19:00	Excursions
19:00	Dinner

## Wednesday, 18.05.2011

09:00 - 10:30	<b>Session X: Mitochondria &amp; chloroplasts</b> Chair: Allan Rasmusson
09:00 - 09:25	<b>Hermann Bauwe:</b> Photorespiration: efficient, essential and enigmatic
09:25 - 09:50	<b>Christoph Peterhansel:</b> An alternative mitochondrial glycolate oxidation pathway contributes to photorespiration in higher plants
09:50 - 10:10	<b>Patrick Finnegan:</b> Mitochondrial lipoamide dehydrogenase is a primary target for arsenic toxicity in plants
10:10 - 10:30	<b>Bernhard Grimm:</b> Do exist two parallel pathways of heme biosynthesis in plants?
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Session XI: Mitochondrial structure, biogenesis &amp; transport</b> Chair: James Whelan
11:00 - 11:25	<b>Elzbieta Glaser:</b> Organellar targeting peptides - sorting and proteolysis
11:25 - 11:50	<b>David Logan:</b> The dynamic plant chondriome: do mitochondrial fusion, fission and positioning underpin cell health?
11:50 - 12:15	<b>Laurence Marechal-Drouard:</b> A protein shuttle to address nucleic acids into mitochondria
12:15 - 12:30	<b>Monica Murcha:</b> The accumulation of TIM17:23 and complex I in mitochondria are reciprocally regulated in mitochondria from <i>Arabidopsis thaliana</i>
12:30 - 14:00	Lunch
15:00 - 16:30	<b>Session XII: Mitochondrial response to environment</b> Chair: Jagadis Gupta Kapuganti
15:00 - 15:25	<b>David Macherel:</b> Mitochondria and bioenergetics of anhydrobiosis
15:25 - 15:45	<b>Miquel Ribas-Carbo:</b> Environment and in vivo mitochondrial electron partitioning
15:45 - 16:00	<b>Hardy Rolletschek:</b> Seed-specific elevation of non-symbiotic hemoglobin AtHb1: beneficial effects and underlying molecular networks in <i>Arabidopsis thaliana</i>
16:00 - 16:15	<b>Abir U. Igamberdiev:</b> Reactions of plant cytochrome c oxidase with nitrite and nitric oxide and their importance in adaptation to low oxygen
16:15 - 16:30	<b>Brian Mooney:</b> Comparing the mitochondrial proteomes of maize hybrids exhibiting different levels of heterosis
16:30 - 17:00	Coffee Break
17:00 - 19:00	<b>Closing discussion:</b>
17:00 - 17:30	<b>Christian Schmitz-Linneweber</b>
17:30 - 19:00	Open discussion
19:00	Conference Dinner

Thursday, 19.05.2011

Departure

