Programme Outline	February 27 Saturday	February 28 Sunday	March 1 Monday	March 2 Tuesday	March 3 Wednesday	March 4 Thursday	March 5 Friday
Breakfast		7:00 - 8:30 am	7:00 - 8:30 am	7:00 - 8:30 am	7:00 - 8:30 am	7:00 - 8:30 am	7:00 - 9:30 am
Symposia	10:00 am -6:00 pm Registration & Check-In	8:30 - 12:30 pm Symposium 1 Structure(s) & Mechanism(s) Chair: R. Deeley Amy L. Davidson Kaspar Locher Rachelle Gaudet Richard Callaghan Stephen G. Aller	8:30 - 12:30 pm Symposium 2 Modulation & Regulation Chair: L. Aguilar Bryan J. Marc Simard Helen Hobbs Susan Bates Robert Tampé Piet Borst	8:30 - 12:30 pm Symposium 3 Assembly, Trafficking & Targeting Chair: S. Michaelis Rupert Abele Anjaparavanda Naren Balázs Sarkadi Tsuneo Imanaka Colin G Nichols	8:30 - 12:30 pm Symposium 4 Diversity of Bio- logical Functions Chair: K. Kuchler Thomas J. Silhavy Jian Feng Ma Ruth Lehmann Marc Ouellette Kazumitsu Ueda	8:30 - 12:30 pm Symposium 5 Human Health & Environment Chair: M. Amaral John Riordan Alfred H. Schinkel Curtis D. Klaassen Toshihisa Ishikawa Michael Köttgen	End of ABC2010 Check-Out
Lunch & Break		12:30 - 5:00 pm	12:30 - 5:00 pm	12:30 - 6:00 pm	12:30 - 5:00 pm	12:30 - 5:00 pm	
Workshop & Short Talks	until 6:00 pm  Registration & Check-In  6:30 – 7:00 pm Opening	5:00 – 7:00 pm Selected Talks Chair: J.Hunt ST1 - Bordignon ST2 - Berntsson ST3 - Babenko ST4 - Csanady WS1 - Ford WS2 - George WS3 - Balan	5:00 – 7:00 pm Selected Talks Chair: B. Poolman ST5 - Boël ST6 - Quilichini ST7 - Pagant ST8 - Ritchie WS4 - Arias WS5 - Moestrup WS6 - Le Saux	FREE Afternoon	5:00 – 7:15 pm Selected Talks Chair: C. Hrycyna ST9 - v. d. Wetering ST10 - Nagata ST11 - Kim Chiaw ST12 - Hopper-Borge WS7 - Riganti WS8 - Kerr	5:00 – 6:00 pm Final Keynote Address Hajime Tokuda 6:15 - 7:00 pm ABC2010 Summary Perspectives Lecture Dietrich Keppler 7:00 – 7:30 pm Concluding Remarks	1:00 pm  Check-Out  Shuttles Airport & Train Station
Dinner		7:30 - 9:00 pm <b>Welcome Dinner</b>	7:15 - 8:30 pm	6:00 - 7:30 pm Women's Career Dinner	7:15 - 8:30 pm	7:30 - 8:00 pm <b>ABC2010 Awards</b>	
Posters Sessions	7:00 - 8:00 pm Keynote Opening Lecture Enrico Martinoia  8:00 - 11:30 pm Poster Mounting Informal Mixer	9:00 – 12:00 pm Poster Session 1 Posters ODD 8:30 – 9:30 pm Meet the Speakers	9:00 – 12:00 pm Poster Session 2 Posters EVEN 8:30 – 9:30 pm Meet the Speakers 8:30 – 9:30 pm ABC2010 SAB Meeting	7:30 – 8 30pm Keynote Plenary Lecture Michael M. Gottesman  8:45 - 10:15 pm Special Workshop Will Structures Reveal ABC Mechanisms? Chair: L. Schmitt Dirk Jan Slootboom Satoshi Murakami	9:00 – 12:00 pm Poster Session 3 Posters EVEN/ODD 8:30 – 9:30 pm Meet the Speakers	8:00 pm – open end Dinner & Farewell Party	

**Scientific Program of ABC2010** 

February 27

Meeting Registration & Hotel Check-In	10:00 am - 6:00 pm
Opening Ceremony Karl Kuchler, Susan P.C. Cole, Susan Michaelis & Kazumitsu Ueda	6:30 pm - 7:00 pm
Keynote Opening Lecture Enrico Martinoia (Introduced by Karl Kuchler) Plant ABC transporters: hormones, stress and signaling	7:00 pm - 8:00 pm
Poster Mounting and Informal Mixer	8:00 pm - 11:30 pm
Sunday	February 28
Breakfast 7:00 am - 8:30 am	
Symposium 1	8:30 am - 12:30 pm
Structure(s) & Mechanism(s)	
Chair & Introduction: Roger G. Deeley	8:30 - 8:45
Amy L. Davidson ABC importers: Conformational changes promoting transport	8:45 - 9:25
Kaspar Locher Structure and coupling mechanism of bacterial ABC importers and exporters	9:25 - 10:05
Rachelle Gaudet The transporter associated with antigen processing as a model for asymmetric ABC tra	10:05 - 10:45 nsporters
Coffee & Refreshment Break 10:45 am - 11:10 am	
Richard Callaghan  Mechanism of drug translocation by ABCB1: inter-domain coupling	11:10 - 11:50
Stephen G. Aller Structure of P-glycoprotein reveals a molecular basis for poly-specific drug binding	11:50 - 12:30
Lunch & Afternoon Break 12:30 pm - 5:00 pm	
Afternoon Talks Selected from Abstracts Chair: John F. Hunt	5:00 pm - 7:00 pm
ST1 - Enrica Bordignon  Modeling missing regions in the crystal structures of ABC-transporters with site directed labeling EPR	5:00 - 5:15 d spin
ST2 - Ronnie Berntsson The structural basis for peptide selection by the transport receptor OppA	5:15 - 5:30
ST3 - Andrey P. Babenko Biophysical analysis of a pathogenic mutation in a structurally undefined domain of an adjustified the machanism	5:30 - 5:45 ABCC

clarifies its mechanism

Saturday

ST4 - László Csanády 5:45 - 6:00 Strict coupling between CFTR's catalytic cycle and gating of its Cl ion pore revealed by distributions of open channel burst durations WS1 - Robert C. Ford 6:00 - 6:20 Structure of the cystic fibrosis transmembrane conductance regulator (ABCC7) determined by electron crystallography WS2 - Tony M. George 6:20 - 6:40 ATP-binding cassettes - Which mechanism? WS3 - Andrea Balan 6:40 - 7:00The structure of SsuA protein from Xanthomonas axonopodis pv. citri reveals how alkanesulfonates enter into the cell Welcome Dinner 7:15 pm - 8:30 pm **Poster Session 1 Odd Numbers** 9:00 pm - 12:00 pm **Meet the Speakers** 8:30 pm - 9:30 pm March 1 Monday Breakfast 7:00 am - 8:30 am Symposium 2 8:30 am - 12:30 pm Modulation & Regulation of ABC Protein Function Chair & Introduction: Lydia Aguilar-Bryan 8:30 - 8:45 J. Marc Simard 8:45 - 9:25 Sur1 and Trpm4 - new molecular partners form SUR1-regulated NCCa-ATP channels **Helen Hobbs** 9:25 - 10:05 Genetic protection from sterol accumulation by heterodimer of ABCG5 and ABCG8 **Susan Bates** 10:05 - 10:45 Regulation and Modulation of ABCG2 Coffee & Refreshment Break 10:45 am - 11:10 am Robert Tampé 11:10 - 11:50 Modulation of the antigen translocation complex TAP by host and viral factors 11:50 - 12:30 The contribution of ABC-transporters to drug resistance in a realistic mouse mammary tumor model Lunch & Afternoon Break 12:30 pm - 5:00 pm Afternoon Talks Selected from Abstracts 5:00 pm - 7:00 pm Chair: Bert Poolman ST5 - Gregory Boël 5:00 - 5:15 YjjK, a member of the ATP binding cassette superfamily, is a novel translational factor ST6 - Teagen Quilichini 5:15 - 5:30 Examining the role of ABCG26 in Arabidopsis thaliana pollen wall formation: a putative sporopollenin monomer transporter ST7 - Silvere Pagant 5:30 - 5:45 Isolation and characterization of second site mutations that rescue ER-retained variants of Yor1p, a yeast ABC transporter homologous to CFTR ST8 - Tasha K. Ritchie 5:45 - 6:00 Phospholipid bilayer nanodiscs as a tool for investigating the mechanism of P-glycoprotein

Regulation of hepatocyte polarization and ABCB1 trafficking by AMP-activated protein kinase

WS4 - Irwin Arias

6:00 - 6:20

WS5 - Søren K. Moestrup 6:20 - 6:40 ABC protein-mediated transport of vitamin B12 WS6 - Olivier Le Saux 6:40 - 7:00 ABCC6: Structural and functional consequences of disease-causing mutations Dinner 7:30 am - 9:00 pm Poster Session 2 **Even Numbers** 9:00 pm - 12:00 pm Meet the Speakers 8:30 pm - 9:30 pm March 2 Tuesday Breakfast 7:00 am - 8:30 am Symposium 3 8:30 am - 12:30 pm Assembly, Trafficking & Targeting Chair & Introduction: Susan Michaelis 8:30 - 8:45 8:45 - 9:25 Rupert Abele Two is better than one: Functional identification of the interaction partners of the lysosomal peptide transporter TAPL Anjaparavanda Naren 9:25 - 10:05 Functional coupling of ABC transporters Balázs Sarkadi 10:05 - 10:45 Cellular Regulation of the Expression, Function and Localization of the ABCG2 Multidrug Transporter Coffee & Refreshment Break 10:45 am - 11:10 am Tsuneo Imanaka 11:10 - 11:50 Organelle selective targeting of ABC subfamily D proteins: Importance of the NH2-terminal hydrophobic motifs Colin G. Nichols 11:50 - 12:30 Biogenesis, function and disease in SUR-dependent KATP channels: recent insights and surprizes Lunch & Afternoon Break 12:30 pm - 6:00 pm Women's Career Dinner 6:00 pm - 7:30 pm Dinner 6:00 pm - 7:30 pm **ABC2010 Keynote Plenary Lecture** Michael M. Gottesman (Introduced by Susan Michaelis) 7:30 - 8:30 What have we learned about multidrug resistance in cancer? Special Workshop 8:45 pm - 10:15 pm Will Structures Reveal Mechanisms of ABC Proteins? Chair & Introduction: Lutz Schmitt 8:45 - 9:00

9:00 - 9:25

9:25 - 9:50

**Dirk Jan Slootboom** 

Satoshi Murakami

Vitamin transporters in Bacteria

RND transporter, AcrB - The pumping mechanism

Wednesday		March 3				
Breakfast	7:00 am - 8:30 am					
Symposium 4	8:30 am - 12:30 pm					
Diversity of Biological Functions						
Chair & Introduction: Karl Kuch	8:30 - 8:45					
Thomas J. Silhavy ABC transporters and the outer members.	8:45 - 9:25					
Jian Feng Ma A bacterial-type ABC transporter for d	9:25 - 10:05					
Ruth Lehmann ABC transporter mediated export of a	geranyl-geranylated germ cell attractant	10:05 - 10:45				
Coffee & Refreshment Break	10:45 am - 11:10 am					
Marc Ouellette ABC proteins and antimicrobial resistance		11:10 - 11:50				
Kazumitsu Ueda Mechanism and regulation of HDL formation by ABCA1		11:50 – 12:30				
Lunch & Afternoon Break	12:30 pm - 5:00 pm					
Afternoon Talks Selected f	rom Abstracts	5:00 pm – 7:00 pm				
ST9 - Koen van de Wetering Using targeted metabolomics to identi	fy new substrates of MRP2 <i>in vivo</i>	5:00 - 5:15				
ST10 - Koh Nagata Analysis of ABCA1 dynamics in the pl	5:15 - 5:30					
ST11 - Patrick Kim Chiaw A chemical corrector VRT-325 modifie	5:30 - 5:45					
ST12 - Elizabeth Hopper-Borge Impact of endogenous <i>Mrp7</i> on taxand	5:45 - 6:00					
WS7 - Chiara Riganti New modulators of ABC-transporters:	6:00 - 6:20					
WS8 - Ian D. Kerr Direct visualization of ABCG2 dimers	in living cells using bimolecular fluorescence com	6:20 - 6:40 aplementation				
Dinner	7:15 am - 8:30 pm					
Poster Session 3	Odd & Even Numbers	9:00 pm - 12:00 pm				
Meet the Speakers		8:30 pm - 9:30 pm				

Thursday		March 4
Breakfast	7:00 am - 8:30 am	
Symposium 5		8:30 am - 12:30 pm
Human Health & Environme Chair & Introduction: Margarida	8:30 - 8:45	
John Riordan Intramolecular communication in CFTR		8:45 - 9:25
Alfred H. Schinkel Pharmacological and toxicological func	tions of multidrug transporters	9:25 – 10:05
Curtis D. Klaassen Regulation of hepatic ABC transporters	in mice	10:05- 10:45
Coffee & Refreshment Break	10:45 am - 11:10 am	
<b>Toshihisa Ishikawa</b> Pharmacogenomics of human ABC trar	nsporters: from functional validation to clinical app	11:10 - 11:50 blication
<b>Michael Köttgen</b> ABCG2 is novel urate transporter with a	a common functional polymorphism causing gout	11:50 - 12:30
Lunch & Afternoon Break	12:30 pm - 5:00 pm	
Final Keynote Address Hajime Tokuda (Introduced by Kaz Sorting of lipoproteins to the outer mem	5:00 pm - 6:00 pm	
ABC2010 Summary & Persp Dietrich Keppler (Introduced by St		6:15 pm - 7:00 pm
Concluding Remarks ABC2010 Organizers		7:00 pm - 8:00 pm
ABC2010 Young Investigate	8:00 pm - 8:30 pm	
Dinner & Farewell Party		8:30 pm - open end

Friday Ma	rch 5
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Breakfast 7:00 am - 9:30 am

End of ABC2010

Check-out - Shuttles to Airport and Main Train Station