Programme Outline	March 1 Saturday	March 2 Sunday	March 3 Monday	March 4 Tuesday	March 5 Wednesday	March 6 Thursday	March 7 Friday	March 8 Saturday
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 - 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 Biogenesis, Trafficking & Processing of ABC Proteins Chair: S. Michaelis Tvrtko Smital Kazumitsu Ueda Emmanuel Wiertz Ronald Wanders John Schuetz	8:30 - 12:30 pm Symposium 2 Modulation & Regulation of ABC Protein Function Chair: K.Kuchler Balasz Sarkadi Bert Poolman Kazufumi Yazaki Lisa Timmons Chris Whitfield	8:30 - 12:30 pm Symposium 3 ABC Proteins in Multidrug Resistance & Pharmacology Chair: C. Hrycyna Alfred Schinkel Susan PC Cole Hiroyuki Kusuhara Hendrik van Veen Bruno Stieger	8:30 - 12:30 pm Symposium 4- Part 1 ABC Genes in Physiology & Pathology of Disease Chair: V. Ling Piet Borst Joseph Bryan Marc Ouellette Michael M. Gottesman Masashi Akiyama	8:30 - 12:30 pm CFTR/PXE Symposium CFTR - From Basic Mechanisms to the Patient Chair: J. Riordan David Gadsby Margarida Amaral Phil Thomas Alan Verkman David Sheppard	8:30 – 12.30 pm Symposium 5 Catalytic Mechanisms & Structure of ABC Proteins Chair: B. Ford Amy Davidson Lutz Schmitt John Hunt Richard Callaghan Marwan Al-Shawi	End of ABC2008 Check-Out
Lunch & Break		12:30 - 5:00 pm	12:30 - 5:00 pm	12:30 - 5:00 pm	12:30 - 5:00 pm	12:30 - 4:30 pm	12:30 - 4:30 pm	
Workshop & Short Talks	until 6:00 pm Registration & Check-In 6:30 – 7:00 pm Opening Ceremony	5:00 – 7:15 pm Selected Talks Chair: B. Holland WS1 - George ST1- Hellmich ST2 - Barthelme WS2 - Tokuda ST3 - Eckford ST4 - Pagant ST5 - Hoelen WS3 - Arias	5:00 – 6:30 pm Selected Talks Chair: R. Deeley ST6 - Dong ST7 - Procko ST8 - Hartz WS4 - Forestier WS5 - Verrier 6:45 - 7:45 pm Keynote Plenary Lecture Robert Tampé	5:00 – 7:15 pm Selected Talks Chair: D. Keppler WS6 - Dey WS7 - van Eck WS8 - Bates ST9 - McDevitt WS9 - Koenderink ST10 - Rius ST11 - Sassi ST12 – de Wetering	5:00 – 7:15 pm Symposium 4- Part 2 ABC Genes in Physiology & Pathology of Disease Chair: G. Chimini Robert Molday Nobuya Inagaki John Oram	4:00 – 8:00 pm CFTR – Biology & Pathology Chair: M. Gentzsch Karl Kunzelmann Laslo Csanady Andrei Aleksandrov Nikolay Dokholyan PXE – Mysterious & Multifacetted Disease Chair: P.&S. Terry Jouni Uitto Andras Varadi Lionel Bercovitch	4:30 – 5:45 pm Workshop on the Structure of ABC Proteins Chair: J. Hunt Robert Ford Kenneth Linton 6:00 - 7:00 pm Final Keynote Address Lydia Aguilar-Bryan 7:00 – 7:15 pm Concluding Remarks	1:00 pm Check-Out Shuttles Airport & Train Station
Dinner		7:15 - 8:30 pm	7:45 - 9:00 pm	7:00 - 8:30 pm	7:15 - 8:30 pm	8:00 - 9:00 pm	8:00 – 12:00 am	
Posters Sessions	7:00 - 8:00 pm Keynote Opening Lecture <i>Shinji Yokoyama</i> 8:00 – 11:30 pm Welcome Dinner	8:30 – 11:00 pm Poster Session 1 Posters ODD	9:00 – 11:00 pm Poster Session 2 Posters EVEN	8:30 – 11:00 pm Poster Session 3 Posters ODD	8:30 – 11:00 pm Poster Session 4 Posters EVEN	9:30 – 11:00 pm ABC2008 SAB Meeting	8:00 – 8:30 pm ABC2008 Young Investigator Awards & 8:30 pm – open end Dinner & Farewell Party	

Scientific Program of ABC2008	
	March 1

Saturday

Meeting Registration & Hotel Check	-In	10:00 am - 5:30 pm
Opening Ceremony Karl Kuchler, Susan PC Cole, Susan N	∕lichaelis & Kazumitsu Ueda	6:30 - 7:00 pm
Keynote Opening Lecture Shinji Yokoyama (Introduced by Kazu Cholesterol homeostasis and ABCA1	umitsu Ueda)	7:00 - 8:00 pm
Welcome Dinner		8:00 pm - 11:30 pm
Sunday		March 2
Breakfast 7	':00 - 8:30 am	
Symposium 1		8:30 am - 12:30 pm
Biogenesis, Trafficking & Pro	•	
Chair & Introduction: Susan Michae	lis	8:30 - 8:45
Tvrtko Smital ABC Transport Proteins in Aquatic Organis and Ecotoxicological Relevance	sms – Identification, Characterization	8:45 - 9:25
Kazumitsu Ueda Post-translational regulation of ABCA1 - wl how is ABCA1-mediated cholesterol efflux		9:25 - 10:05
Emmanuel Wiertz Virus-mediated inactivation and degradation with Antigen Processing, TAP (ABCB2/3)	on of the Transporter associated	10:05 - 10:45
Coffee & Refreshment Break 1	0:45 – 11:10 am	
Ronald J.A. Wanders Peroxisomal half-ABC transporters and the the peroxisomal membrane	e transport of metabolites across	11:10 - 11:50
John Schuetz The role of ABCB6 in porphyrin/heme hom	eostasis	11:50 - 12:30
Lunch & Afternoon Break 1	2:30 - 5:00 pm	
Afternoon Talks Selected fron Chair: Barry Holland	n Abstracts	5:00 - 7:15 pm
WS1 – Tony M. George ATP hydrolysis opens the ABC transporter rotation of the helical subdomain	nucleotide-binding domain active site via	5:00 - 5:20
ST1 - Ute A. Hellmich Investigations of the ABC-transporter LmrA importance of phospholipids on function ar		5:20 - 5:35

5:35 - 5:50

ST2- Dominik BarthelmeUnique ATP-hydrolysis cycle and function of the ABC-type ATPase ABCE1

WS2 – Hajime Tokuda Molecular events involved in a single c transporter LoICDE to a molecular cha	ycle of ligand transfer from an ATP-binding cassette perone LolA	5:50 - 6:10
ST3 – Paul D.W. Eckford The reconstituted <i>E. coli</i> MsbA protein	is a lipid flippase	6:10 - 6:25
ST4 - Silvere Pagant Folding, assembly and ER export of Yo	or1p mutants, a yeast ABC transporter homologous to CFT	6:25 - 6:40 R
ST5 – Hanneke Hoelen Folding of CFTR at the ER membrane		6:40 - 6:55
WS3 - Irwin M. Arias Dynamic microtubules are required for in polarized WIF-B9 cells and provide to	apical trafficking of ABCB11, the bile salt excretory proteir he "missing link" to the canalicular actin network	6:55 - 7:15
Dinner	7:15 - 8:30 pm	
Poster Session 1	Odd Numbers 8:	30 - 11:00 pm
Monday		March 3
Breakfast	7:00 - 8:30 am	
Symposium 2	8:30 a	m - 12:30 pm
Modulation & Regulation of		
Chair & Introduction: Karl Kuchl	er	8:30 - 8:45
Balasz Sarkadi High level endogenous expression of the human embryonic stem cells	he ABCG2 multidrug transporter in	8:45 - 9:25
Bert Poolman ABC transporters: sensing and transdu	action of ionic strength	9:25 - 10:05
Kazufumi Yazaki ABC proteins responsible for the members	orane transport of signal molecules in plant roots	10:05 - 10:45
Coffee & Refreshment Break	10:45 – 11:10 am	
Lisa Timmons ABC transporters are required for effici	ent RNAi in <i>Caenorhabditis elegans</i>	11:10 - 11:50
Chris Whitfield Substrate recognition and specificity in	ABC exporters for bacterial polysaccharides	11:50 - 12:30
Lunch & Afternoon Break	12:30 – 5:00 pm	
Afternoon Talks Selected for Chair: Roger Deeley	rom Abstracts 5	:00 – 6:30 pm
ST6 - Qian Dong A mutation in CFTR modifies the effect	s of the adenylate kinase inhibitor Ap5A on channel gating	5:00 - 5:15
ST7 - Erik Procko The ABC Transporter associated with a and peptide transport	Antigen Processing (TAP): ATP-binding, hydrolysis	5:15 - 5:30
ST8 - Anika Hartz Non-Genomic Regulation of BCRP at t	he Blood-Brain Barrier by 17-beta-Estradiol	5:30 - 5:45
WS4 - Cyrille Forestier Heavy metal tolerance conferred by the metal-chelating peptide phytochelatins	e ABC transporter <i>HMT1</i> does not require the	5:45 - 6:05

WS5 - Paul J. VerrierHow many ABCs does a plant need and where do they come from?

6:05 - 6:25

ABC2008 Keynote Plenary Lecture Supported by "The Dr. Josef Steiner Cancer Research Foundation"

Robert Tampé (Introduced by Karl Kuchler) The ABC of self-defense: views & news

Dinner

7:45 - 9:00 pm

Poster Session 2 Even Numbers

9:00 - 11:00 pm

6:40 - 7:40

Tuesday		March 4
Breakfast	7:00 - 8:30 am	
Symposium 3	;	8:30 am - 12:30 pm
ABC Proteins in Multidrug Chair & Introduction: Christine H	Resistance & Pharmacology <i>Irycyna</i>	8:30 - 8:45
Alfred H. Schinkel In vivo functions of ABC multidrug trans	sporters	8:45 - 9:25
Susan P.C. Cole MRP1 (ABCC1): molecular determinan	ts of its substrate transport and specificity	9:25 - 10:05
Hiroyuki Kusuhara Role of Bcrp, Mrp3 and Mrp4 in drug di	sposition	10:05 - 10:45
Coffee & Refreshment Break	10:45 – 11:10 am	
Hendrik W. van Veen Chemiosmotic coupling in bacterial hor multidrug resistance P-glycoprotein AB		11:10 - 11:50
Bruno Stieger The Role of BSEP (ABCB11) in Acquire	ed Forms of Liver disease	11:50 - 12:30
Lunch & Afternoon Break	12:30 – 5:00 pm	
Afternoon Talks Selected fr Chair: Dietrich Keppler	om Abstracts	5:00 – 7:20 pm
WS6 - Saibal Dey Molecular determinants of functional m P-glycoprotein (ABCB1)	odulation of the human multidrug transporter	5:00 - 5:20
WS7 - Miranda Van Eck Role of Macrophage ABCA1 and ABCO lesion development	G1 in foam cell formation and atherosclerotic	5:20 - 5:40
WS8 - Susan Bates Mutagenesis studies identify residues i	mportant in ABCG2 function and biogenesis	5:40 - 6:00
ST9 - Christopher McDevitt The powerstroke of ABCG2 and the rol	e of nucleotide binding in drug transport	6:00 - 6:15
WS9 - Jan B. Koenderink Functional role of arginine 375 in transi (MRP4/ABCC4)	membrane helix 6 of multidrug resistance protein 4	6:15 - 6:35
ST10 - Maria Rius Multidrug resistance protein ABCC4 (M	IRP4)-mediated transport of leukotrienes B_4 and C_4	6:35 - 6:50
ST11 - Yassine Sassi MRP4 acts as a regulator of cAMP-dep smooth muscle cell proliferation	pendent signalling pathways and controls	6:50 - 7:05
ST12 - Koen van de Wetering Using targeted metabolomics to identify	y novel substrates of Multidrug Resistance Protein 3	7:05 - 7:20 3 in vivo

Poster Session 3 Odd Numbers 8:30 - 11:00 pm

Wednesday		March 5
Breakfast	7:00 - 8:30 am	
Symposium 4		8:30 am - 12:30 pm
ABC Genes in Physiology	y & Pathology of Disease – Part1	
Chair & Introduction: Victor Li	ng	8:30 - 8:45
Piet Borst The contribution of ABC transporters and sulphate-conjugates: studies with	s to the cellular efflux of glucuronosyl- th KO mice	8:45 - 9:25
Joseph Bryan ABCC8/KCNJ11 potassium channel	s and disorders of glucose homeostasis	9:25 - 10:05
Marc Ouellette ABC proteins in the protozoan paras	site <i>Leishmania</i>	10:05 - 10:45
Coffee & Refreshment Break	10:45 – 11:10 am	
Michael M. Gottesman New Tricks from an Old ABC Transp	porter	11:10 - 11:50
Masashi Akiyama Keratinocyte lipid transporter ABCA	12 is a key player of skin barrier formation	11:50 – 12:30
Lunch & Afternoon Break	12:30 – 5:00 pm	
ABC Genes in Physiology	/ & Pathology of Disease - Part2	5:00 – 7:15 pm
Chair & Introduction: Giovann		5:00 - 5:15
Robert S. Molday Role of the ABCA4 Transporter in Vi	sion and Macular Degeneration	5:15 - 5:55
Nobuya Inagaki ABCA3 as a Lipid Transporter in Pul	monary Surfactant Biogenesis	5:55 - 6:35
John F. Oram ABCA1: a direct link between the ca and anti-inflammation	rdioprotective effects of cholesterol export	6:35 - 7:15
Dinner	7:15 - 8:30 pm	
Poster Session 4	Even Numbers	8:30 - 11:00 pm
Thursday		March 6
Breakfast	7:00 - 8:30 am	

Breakfast	7:00 - 8:30 am		
Special Satellite Syn	nposium on CFTR/PXE	8:30 am - 12:30 pm	
CFTR – From Basic Mechanisms to the Patient (sponsored by CFF & ECFS)			
Chair & Introduction : Ja	ick Riordan - Welcome by Melissa Ashlo	ock, CFF 8:30 - 8:45	
David C. Gadsby		8:45 - 9:25	
	R chloride channels, the ABC proteins whose dy	rsfunction	
Margarida D. Amaral Mechanisms of rescuing strat	tegies for trafficking mutants of CFTR (ABCC7)	9:25 - 10:05	

Phil Thomas		10:05 - 10:45
Altered protein folding as a basis of cysti		
Coffee & Refreshment Break	10:45 – 11:10 am	
Alan S. Verkman Lung pathogenesis and small-molecule t	therapy of cystic fibrosis	11:10 - 11:50
David N. Sheppard Chimeric constructs endow the human C of murine CFTR	CFTR CI ⁻ channel with the gating behaviour	11:50 - 12:30
Lunch & Afternoon Break	12:30 – 4:00 pm	
Special Afternoon Workshop CFTR – The Biology & Patho	ology (sponsored by CFF & ECFS)	4:00 - 5:55 pm
Chair & Introduction: Martina Gen		4:00 – 4:15
Karl Kunzelmann Phosphorylation of CFTR by CK2 and Al regulation of secretion?	MP-dependent kinase: A new concept for	4:15 - 4:40
László Csanády Coupling between the nucleotide binding studied through temperature dependence		4:40 - 5:05
Andrei A. Aleksandrov The CFTR ABC protein from the single of	channel perspective	5:05 - 5:30
Nikolay V. Dokholyan Diminished self-chaperoning activity of the	ne Δ F508 mutant of CFTR results in protein misfo	5:30 – 5:55 olding
Coffee & Refreshment Break	5:55 – 6:20 pm	
Special Evening Workshop PXE – Mysterious & Multifac Chair & Introduction: Sharon Terr	etted Disease (supported by PXE In y & Pat Terry	6:20 - 7:50 pm <i>iternational)</i> 6:20 - 6:35
Jouni Uitto Pseudoxanthoma Elasticum: Model Syst	ems and Pathomechanisms	6:35 - 7:00
Andras Varadi ABCC6: recent evolution of the gene and	d the potential role of the protein in ECM calcificat	7:00 - 7:25
Lionel Bercovitch TBA		7:25 - 7:50
Dinner	7:50 – 9:00 pm	
Friday		March 7
Breakfast	7:00 - 8:30 am	
Symposium 5		8:30 am - 12:30 pm
Catalytic Mechanisms & Stru Chair & Introduction: Robert Ford		8:30 - 8:45
Amy Davidson Structure and mechanism of the maltose	e (ABC) transporter from <i>E. coli</i>	8:45 - 9:25
Lutz Schmitt A "transport triggering" mechanism in the		9:25 – 10:05

10:05- 10:45

John F. HuntABC motors: from mechanochemistry to novel biology

10:45 – 11:10 am

Coffee & Refreshment Break

Richard Callaghan What is the role of transmembrane helices 6 and 12 in P-Glycoprotein?	11:10 - 11:50
Marwan Al-Shawi A molecular based assessment of the solvation exchange mechanism of drug transport by P-glycoprotein ABCB1	11:50 - 12:30
Lunch & Afternoon Break 12:30 – 4:30 pm	
Afternoon Workshop How does Structure of ABC Proteins relate to Function? Chair & Introduction: John F. Hunt	4:30 – 5:45 pm 4:30 - 4:40
Robert Ford Structural insights into eukaryotic ABC proteins using an electron microscopy approach	4:40 - 5:10
Kenneth J. Linton The ABC and "Q" of P-glycoprotein: synergy, redundancy & detergent sensitivity of Q-loop me	5:10 - 5:30 utants
Final Keynote Address Lydia Aguilar-Bryan (Introduced by Susan PC Cole) ABCC8/KCNJ11: How does an ABC transporter regulate an ion channel?	6:00 - 7:00 pm
Concluding Remarks ABC2008 Organizers	7:00 - 7:15 pm
ABC2008 Young Investigator Awards	8:00 – 8:30 pm
Dinner & Farewell Party	8:30 – open end

March 8 Saturday

Breakfast 7:00 - 9:30 am

End of ABC2008

Check-out - Shuttles to Airport and Main Train Station