

A decorative graphic on the right side of the page. It features three overlapping circles of varying sizes, each composed of concentric rings in shades of blue. Two thin blue lines intersect at a point, forming a V-shape that frames the circles. The circles are positioned in the upper right and lower right areas of the page.

CONFERENCE PROGRAM LRD/LLMB 2010

UBC Campus, Vancouver, BC

August 4-8, 2010

WEDNESDAY, AUGUST 4, 2010

Time	Event	Speaker	Title
7:00 am to 8:00 am	<i>Registration and continental breakfast</i>		
8:00	INDUSTRY-SPONSORED WORKSHOP I. Liposomal Nanomedicines Containing siRNA Co-Chairs: Mark Tracy (Alnylam) and Pieter Cullis (UBC)	Mark Tracy (Alnylam)	<i>Progress in the translation of novel lipid nanoparticle siRNA products to the clinic</i>
8:30		Martin Maier (Alnylam)	<i>Progress on LNP-mediated delivery of siRNA therapeutics</i>
9:00		Mick Hope (Alcana)	<i>In vivo delivery of siRNA by lipidic nanoparticles: understanding the structure-activity relationship of ionizable cationic lipids</i>
9:30		Roger Adami (MDRNA)	<i>Modified amino acids for use in systemic and topical liposomal delivery systems</i>
10:00		Paul Burke (Merck)	<i>Optimizing Lipid Nanoparticle Formulations for Systemic siRNA Delivery to Liver</i>
10:30	<i>Refreshment break</i>		
11:00	INDUSTRY-SPONSORED WORKSHOP II. Chemistry, Manufacturing, Control (CMC) of Liposome-based Pharmaceuticals Co-Chairs : Clay Flowers (Northern Lipids) and Michael Platscher (Merck & Cie)	Gregorio V. Sanchez (Gilead)	<i>Manufacturing of liposomal therapeutics at Gilead</i>
11:30		Walt Shaw (Avanti)	<i>Mass spectrometry of lipids: solvents and surfaces– lipid s bane</i>
12:00		Michael Platscher (Merck & Cie)	<i>Merck & Cie– Drug delivery compounds & services</i>
12:30-1:20		<i>Lunch break (box lunches)</i>	
1:20		Simon Eastman (Northern Lipids)	<i>Manufacturing liposome formulations at scale</i>
1:50		Andreas Wagner (Polymun Scientific)	<i>Large-scale GMP production of liposomal therapeutics and non-phospholipid vesicles at Polymun</i>
2:20		Yoichiro Sawada, NOF	<i>NOF Capability for Drug Delivery Excipients</i>
2:50		Tetsuro Yoshimura (Liposome Engineering Lab/Hashimoto Electronic Ind)	<i>Automated multi-functional liposome manufacturing equipment</i>
3:00		Noriyuki Maeda, Nippon Fine Chemicals, Lipid Dept.	<i>Advanced lipid technology</i>

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3:10-3:30	<i>Refreshment break</i>		
3:30	INDUSTRY-SPONSORED WORKSHOP III. Liposomal Nanomedicines Containing Small Molecule Drugs Co-chairs: Frank Szoka (UCSF) & Terry Allen (CDRD)	Lawrence Mayer (Celator)	<i>Development of nano-scale delivery system-based drug combinations: ratios, release rates and results</i>
4:00		Darryl Drummond (Merrimack)	<i>Highly stable nanoliposomal formulations of camptothecins: MMA-398 and immunoliposomal topotecan</i>
4:15		Nicolas Borys (Celsion)	<i>Lyso-thermosensitive liposomal doxorubicin: a novel approach to enhance efficacy of thermal treatment of cancer</i>
4:30		Steven Deitcher (Hana)	<i>Marqibo® (Vincristine sulfate Opisomes™): nothing speaks louder than clinical data</i>
5:00		Bart Metselaar (Enceladus)	<i>PEG-liposomal prednisolone for the treatment of patients with active rheumatoid arthritis</i>
5:15		Frank Szoka (UCSF)	<i>Sterol modified and modified sterol lipids - new materials for controlling the release of liposome contents</i>
6:00 pm to 8:30 pm	<i>Welcome reception and poster set-up</i>		

THURSDAY, AUGUST 5, 2010

Time	Event	Speaker	Title
7:00 am to 8:00 am	<i>Registration and continental breakfast</i>		
8:00 am to 9:00 am	KEYNOTE LECTURE	Bill Zamboni (UNC)	<i>How to improve the preclinical and clinical development of carrier-mediate agents via pharmacologic methods</i>
9:00	SESSION 1.	Gert Storm (Utrecht)	<i>To actively target or not to actively target: that is the question</i>
9:30	Liposome Technology: Targeting	Kazuo Maruyama (Teikyo University)	<i>Transferrin-targeted oxaliplatin liposomes</i>
10:00	Co-chairs: Kazuo Maruyama, Mirco Ponzoni	<i>Refreshment break</i>	
10:30		Mirco Ponzoni (G. Gaslini)	<i>Tumour-targeted delivery systems for gene-immuno-therapies in neuroectodermal tumours</i>
11:00		Vladimir Torchlin (Northeastern)	<i>Targeted liposomes and PEG-micelles</i>
11:30		Yoshiro Niitsu (Sapporo)	<i>Treatment of organ fibrosis by siRNAHSP47</i>
12:00 pm to 2:00 pm	<i>Lunch break and poster viewing</i>		
2:00 pm to 3:00 pm	KEYNOTE LECTURE	Ben de Kruijff (Utrecht)	<i>Membrane lipids: function and targets for antibiotics</i>
3:00	SESSION 2.	Sergio Grinstein (Toronto)	<i>Detection of intracellular phosphatidylserine by digital imaging: role in cell polarity</i>
3:30	Membrane Biophysics: Roles of Lipids in Membranes	Michael Schlame (New York)	<i>The function of cardiolipin in the assembly of mitochondrial membranes</i>
4:00		<i>Refreshment break</i>	
4:30	Co-chairs: Ben de Kruijff and S. Grinstein	Chris Loewen (UBC)	<i>Phosphatidic acid senses intracellular pH and regulates phospholipid metabolism</i>
5:00		Pieter Cullis (UBC)	<i>Lipid polymorphism, cationic lipids and the intracellular delivery of genetic drugs</i>
5:30		Business meeting	<i>Where to hold LRD 2012?</i>
6:00 pm to 8:30 pm	<i>Wine and cheese reception and poster viewing</i>		

FRIDAY, AUGUST 6, 2010

Time	Event	Speaker	Title
7:00 am to 8:00 am	<i>Registration and continental breakfast</i>		
8:00 am to 9:00 am	KEYNOTE LECTURE	Sandy Schmid (Scripps)	<i>Multiple pathways into the cell</i>
9:00	SESSION 3.	Dan Anderson (MIT)	<i>Combinatorial development of biomaterials and synthetic siRNA delivery systems</i>
9:30	Liposome Technology: Intracellular Delivery	Leaf Huang (North Carolina)	<i>A new endosome release mechanism for nanoparticle-mediated siRNA delivery</i>
10:00		Gerben Koning (The Netherlands)	<i>Intravital optical imaging of intratumoral fate of liposomes and intracellular drug delivery</i>
10:30	Co-chairs: Leaf Huang and Nicole Zitzmann	<i>Refreshment break</i>	
11:00		Nicole Zitzmann (Oxford)	<i>Endoplasmic reticulum-targeting liposomes and their use in antiviral research</i>
11:30		Ian McLaughlin (Tekmira)	<i>Lipid-mediated delivery of nucleic acid-based drugs</i>
12:00 pm to 2:00 pm	<i>Lunch break and poster viewing</i>		
2:00 pm to 3:00 pm	BANGHAM AWARD LECTURE	Alberto Gabizon (Israel)	<i>Therapeutics and toxicology of liposome-based anticancer drugs: a physician's perspective</i>
3:00	SESSION 4.	Tobias Stoeger (Munich)	<i>Toxicological responses to nanoparticles</i>
3:30	Liposome Technology: Toxicology	Janos Szabeni (Hungary)	<i>Complement activation by liposomes and other drug carrier nanoparticles</i>
4:00		<i>Refreshment break</i>	
4:30	Co-chairs: M. Bally and G. Storm	Marcel Bally (BC Cancer Agency)	<i>Toxicity of cationic lipids</i>
5:00		Jean-Marie Ruyschaert (Belgium)	<i>Cationic lipids activate TLR-dependent cascades and cytokine secretion</i>
5:15		Tatsuhiko Ishida (Tokushima)	<i>Immunostimulatory properties of liposomes containing PEG</i>
5:30 pm to 10:00 pm	<i>Museum of Anthropology: Tour, entertainment, conference banquet and award presentations</i>		

SATURDAY, AUGUST 7, 2010

Time	Event	Speaker	Title
7:30 am to 8:30 am	<i>Registration and continental breakfast</i>		
8:30 am to 9:30 am	KEYNOTE LECTURE	Chezy Barenholz (Israel)	<i>Liposomes: from lipid biophysics and membrane models to nanomedicines and approved drugs</i>
9:30	SESSION 5.	David Deamer (UC Davis)	<i>Membranes and the origin of life</i>
10:00	Membrane Biophysics: Self-Organization of Lipids	<i>Refreshment break</i>	
10:30		Peter Tieleman (Calgary)	<i>Watching lipids move– computer simulation of defects, flip-flop, domains and fusion</i>
11:00	Co-chairs: D. Deamer, D. Needham	Jenifer Thewalt (Simon Fraser Univ.)	<i>TBA</i>
11:30		Phil Felgner (UC Irvine)	<i>Cationic lipids</i>
12:00 pm to 2:00 pm	<i>Lunch break and poster viewing</i>		
2:00 pm to 3:00 pm	KEYNOTE LECTURE	Hagan Bayley (Oxford)	<i>Engineered protein pores in nanotechnology</i>
3:00	SESSION 6.	Stephen Boxer (Stanford)	<i>Membrane gymnastics using DNA-lipid conjugates</i>
3:30	Membrane Biophysics: membrane nanotechnology	<i>Refreshment break</i>	
4:00		Diego De Mendoza (Rosario)	<i>Engineering a thermosensor to dissect a transmembrane signaling system</i>
4:30	Co-chairs: F. Sachs and H. Bayley	Rosemary Cornell (Simon Fraser University)	<i>How reversible membrane binding of an amphitrophic protein regulates its function</i>
5:00		Dan Minor (UCSF)	<i>Structural analysis of ion channel modulation</i>

CLOSE OF CONFERENCE

SUNDAY, AUGUST 8, 2010

Free day for local activities, or arranged tours of Vancouver and vicinity