1996 to 2018

GPEN2018

National University of Singapore
26th – 29th September 2018

Conference booklet
& proceedings

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WELCOME FROM THE COMMITTEE

Dear GPEN2018 Attendees,

It is our great honor to host the Globalization of Pharmaceutics Education Network's (GPEN's) 12th biennial meeting (GPEN2018). This is the first time the meeting is held at the National University of Singapore, and the very first time in Southeast Asia. At GPEN2018, we have more than 300 participants and representatives from over 50 universities and industrial partners. We wholeheartedly welcome all of you coming from different parts of the World.

GPEN was established at the University of Kansas with the noble vision of the founders to provide an international platform for young pharmaceutical scientists to have scientific, professional and personal interactions. Recognizing the global nature of the pharmaceutical and biotechnological industry that hi re many of their graduates, Professor Ronald T. Borchardt, one of the founders of GPEN, sought to give these young scientists at the early stage of their careers, an exposure to the educational, scientific and cultural characteristics of the host countries. At its inception, GPEN membership included 13 universities spread across North America, Europe, Japan and Australia. We can proudly say that at present, GPEN membership has grown to 52 universities from six continents including North America, South America, Europe, Asia, Southeast Asia and Australia. Over the past 22 years, GPEN has helped inspire many young pharmaceutical scientists to become prominent academic and industrial scientists as well as senior executives and/or entrepreneurs. Many of them, in return, have provided contributions that continue to support GPEN. We believe that the legacy of GPEN will continue at GPEN2018.

Many of our Organizing Committee members have had the pleasure of experiencing past GPEN meetings. To us, GPEN meetings are “PHARMILY” events. The unique atmosphere not often associated with conventional scientific meetings has allowed us to benefit both scientifically and socially from these meetings. At GPEN2018, we have endeavored to give you the same feeling of hospitality here in Singapore.

GPEN2018 scientific sessions will be held on the campus of the National University of Singapore. We have evening events planned at popular attractions including the Marina Barrage, Satay by the Bay, and the Singapore Flyer. The GPEN2018 Organizing Committee wishes you a pleasant stay and a fruitful meeting. We also hope that GPEN2018 can inspire you to be "Scientists of the World" as GPEN has done for thousands of young pharmaceutical scientists for the past 22 years.

On behalf of the Organizing Committee,

Sze-Han LEE, Hongyi OUYANG, Cheryl Xin-Yi WONG
Student Chairs

Hong-May SIM, Wai-Ping YAU
Faculty members

Eng-Hui CHEW, Paul Chi-Lui HO
Faculty Co-Chairs

Organized by:

NUS National University of Singapore | Department of Pharmacy, Faculty of Science

Held in:

SG Singapore Passion Made Possible

Supported by:

SINGAPORE EXHIBITION & CONVENTION BUREAU

ACKNOWLEDGEMENT

The GPEN2018 Organizing Committee would like to thank the National University of Singapore (NUS) Department of Pharmacy for their support for this event, as well as our department colleagues and graduate friends in NUS Pharmacy.

The GPEN2018 Organizing Committee would like to publicly thank the following companies for funding approx. 95 housing and registration grants that were awarded to graduate students and postdoctoral fellows from GPEN member institutions: Absorption Systems; Allergan, Plc; Bristol-Myers Squibb Company; Captisol, A Ligand Technology; Daiichi Sankyo Co., Ltd, Japan; Eli Lilly and Company; FPTIJ; Genentech, Inc.; Hyphens Pharma Pte Ltd; MSD; Mitsubishi Tanabe Pharma Co., Japan; Molecular Pharmaceutics; Nagai Foundation Tokyo; Novo Nordisk A/S; Pfizer, Inc.; Sanofi; Takeda Pharmaceutical International Co.; Teikoku Seiyaku Co. Ltd; and Chong Yuan and Xiaohong Yu.

The Organizing Committee is exceedingly grateful to all those who have provided support and guidance while organizing GPEN2018. We would like to especially thank:

- GPEN Founder and Treasurer Ronald T. BORCHARDT, the GPEN Board of Directors (Kenneth AUDUS, Teruna SIAHAAN, and Yoshi TAKAKURA) and the GPEN Executive Committee members
- Ms. Nancy HELM, A/Prof. Jeffrey KRISE, and Prof. Teruna SIAHAAN from University of Kansas, who were instrumental in the organizing and planning of the meeting
- Ms. Ying-Ying CHEW (NUS Department of Pharmacy), who was our important liaison with various key contacts within the campus
- Prof. Freddy BOEY, our Guest-of-Honor
- Prof. Patrick CASEY, our keynote speaker
- All GPEN2018 sponsors
- All judges of podium and poster presentations
- All short course coordinators
- All faculty and industrial short course speakers
- All industry observers
- All podium chairs of podium presentations
- All student leaders from the NUS Pharmacy Graduate Committee
- Mr. Wenjie FAN from the NUS Department of Pharmacy
- All student ambassadors from the NUS Department of Pharmacy
- The GPEN2016 Organizing Committee, especially Ms. Samantha PACE who guided the setup of the website

RONALD T. BORCHARDT KEYNOTE ADDRESS

Patrick J. CASEY, PhD

Professor and Senior Vice Dean, Research
Duke-NUS Medical School

Getting G Proteins and Lipids Together: Opportunities to Decipher Biology and Make New Drugs
Time: 5:30 PM – 6:30 PM
Date: 26th Sep 2018 (Wednesday)
Venue: Kent Ridge Guild House

Dr Patrick Casey, PhD, is the Senior Vice Dean of Research at the Duke-NUS Medical School. He holds a James B. Duke Professorship of Pharmacology and Cancer Biology at Duke University.

Dr Casey received his PhD in Biochemistry from the Brandeis University in 1986 and did postdoctoral work at the University of Texas Southwestern Medical Center in Dallas. He joined the Duke University Medical Center as an Assistant Professor of Molecular Cancer Biology and Biochemistry in 1990. A recognized authority in the fields of lipid modifications of proteins and in G protein signaling, Dr Casey has received numerous awards for his work including the Established Investigator Award from the American Heart Association in 1992 and the Amgen Award from the American Society of Biochemistry and Molecular Biology in 2000. Dr Casey was the founding Director of the Duke Center for Chemical Biology, established to spearhead interdisciplinary research and training in the application of fundamental chemical principles to the study of biology and the basis of disease and therapies. For his contribution to science, Dr. Casey was elected a Fellow of the American Association for the Advancement of Science in 2012.

In 2005, Dr. Casey added an additional element to his career when he relocated to Singapore to spearhead the development of the Duke-NUS Medical School. As Senior Vice Dean of Research at Duke-NUS, Dr. Casey was the chief architect of the five Signature Research Programs at Duke-NUS: Cancer and Stem Cell Biology, Cardiovascular and Metabolic Disorders, Neuroscience and Behavioral Disorders, Emerging Infectious Diseases, and Health Services and Systems Research. Investigators in these Programs have collectively published more than 3,000 papers, garnered >US$350M in competitive funding, and founded 11 biotechnology companies. Dr. Casey has also played a major role in the Singapore Biomedical Sciences Initiative, serving on advisory committees for the initiative as well as for programs at the Agency for Science, Technology and Research (A*STAR), National Medical Research Council (NMRC) and National Research Foundation (NRF).

Dedicated to training the next generation of scientists and clinician-scientists, Dr. Casey has trained numerous PhD, MD/PhD students and research fellows in his own lab, who occupy positions in academia and biopharma in many continents. Extending his personal experience as a mentor, Dr, Casey has been involved in the development of numerous training programs. He was a founding member, and served as Director for 10 years, of Duke University's Graduate Program in Molecular Cancer Biology. In Singapore, Dr. Casey led the development of a unique PhD Program in Integrated Biology and Medicine (IBM) at Duke-NUS, an integral component of Duke-NUS' mission of training translationally-savvy clinicians and scientists.

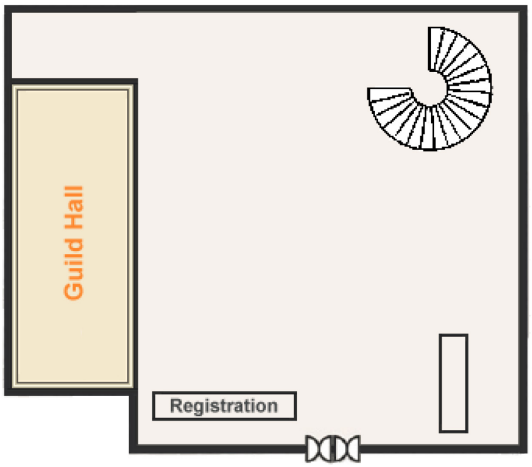
This year, Dr. Casey received the 2018 Distinguished Faculty Award by the Duke University Medical Alumni Association to recognize his leadership in establishing the Duke-NUS Medical School and his role in mentoring the doctors, researchers and educators of tomorrow.

PROGRAM OVERVIEW

Wednesday, September 26th (Kent Ridge Guild House)	
2:00 PM to 4:30 PM	Registration
5:00 PM to 5:15 PM	Welcome address by Prof. Kenneth AUDUS
5:15 PM to 5:30 PM	Opening address by Prof. Freddy BOEY
5:30 PM to 6:30 PM	Keynote address by Prof. Patrick CASEY
6:30 PM to 8:00 PM	Welcome Reception
Thursday, September 27th (Shaw Foundation Alumni House)	
8:00 AM to 9:20 AM	Podium session 1
9:20 AM to 10:10 AM	Coffee break and poster viewing
10:10 AM to 11:50 AM	Podium session 2
11:50 AM to 1:10 PM	Lunch
1:10 PM to 2:50 PM	Podium session 3
2:50 PM to 3:40 PM	Coffee break and poster viewing
3:40 PM to 5:00 PM	Podium session 4
5:00 PM to 6:00 PM	Bus transfer to Marina Barrage
6:00 PM to 8:30 PM	Cultural Night at Marina Barrage and Satay by the Bay
Friday, September 28th (Shaw Foundation Alumni House)	
8:00 AM to 9:40 AM	Podium session 5
9:40 AM to 10:30 AM	Coffee break and poster viewing
10:30 AM to 12:10 PM	Podium session 6
12:10 PM to 1:30 PM	Lunch
1:30 PM to 2:50 PM	Podium session 7
2:50 PM to 3:40 PM	Coffee break and poster viewing
3:40 PM to 4:40 PM	Podium session 8
4:40 PM to 6:30 PM	Bus transfer to Flyer Event Hall, Singapore Flyer
6:30 PM to 8:30 PM	Gala Dinner at Flyer Event Hall, Singapore Flyer
Saturday, September 29th (Faculty of Science, Block S16)	
8:00 AM to 8:20 AM	Arrival and luggage storage
8:30 AM to 12:10 PM	Short courses 1 to 6
12:10 PM to 1:30 PM	Lunch
1:30 PM to 2:00 PM	Closing and award ceremony

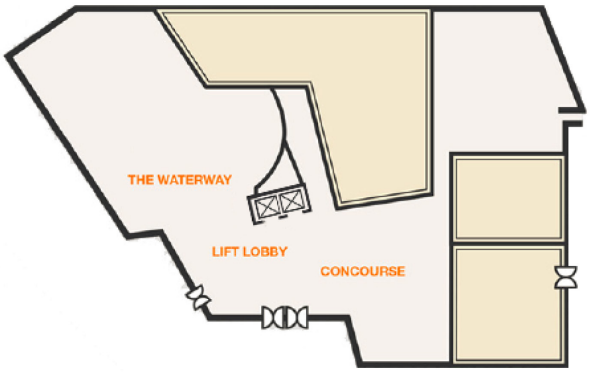
EVENT MAP

Kent Ridge Guild House



LEVEL 1

Shaw Foundation Alumni House



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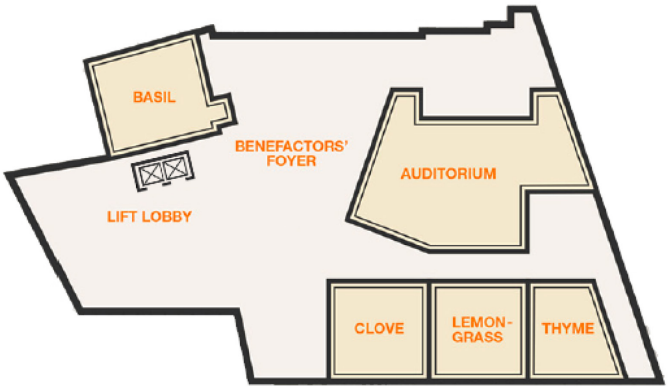
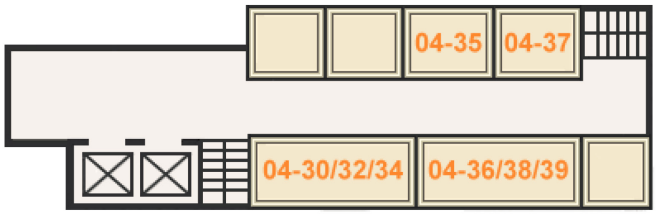


LEVEL 2

Faculty of Science, Block S16

LEVEL 3



LEVEL 4

EVENT HIGHLIGHTS

Welcome, Opening, and Keynote Address

Venue: Kent Ridge Guild House
Date & Time: 26th Sep, 5:00 PM – 6:30 PM

Prof. Kenneth Audus (GPEN Chair; Professor and Dean, School of Pharmacy, University of Kansas) welcomes everyone to GPEN2018, and will present on the organization, objectives, and history of GPEN. Our Guest-of-Honor, Prof. Freddy BOEY (Senior Vice President, Graduate Education & Research Translation, NUS) will deliver the opening address. This will be followed by the Keynote Lecture by Prof. Patrick J. CASEY (Professor and Senior Vice Dean, Research, Duke-NUS Medical School).

Welcome Reception

Venue: Kent Ridge Guild House
Date & Time: 26th Sep, 6:30 PM – 8:00 PM
Sponsored by National University of Singapore

Enjoy dinner at the comfort of the National University of Singapore Society (NUSS) Kent Ridge Guild House, while marveling at the Lion Dance troupe prancing around to the beat of the drums. They will show off their dexterity and skill as they welcome all participants to Singapore.

Cultural Night

Venue: Marina Barrage and Satay by the Bay
Date & Time: 27th Sep, 6:00 PM – 8:30 PM
Sponsored by Ronald T. and Pamela K. Borchardt

Join us at the iconic Marina Barrage, Singapore's 15th freshwater reservoir and the first in the heart of the city. At an area of 10,000 hectares, the Barrage is the nation's largest and most urbanized catchment area. Experience the activities and games that are uniquely Singapore, and stand a chance to win tickets to the Singapore Flyer! After that, rest your legs and mind with a gastronomical treat at the Satay by the Bay.

Gala Dinner

Venue: Flyer Event Hall, Singapore Flyer
Date & Time: 28th Sep, 6:30 PM – 8:30 PM
Sponsored by Gilead Sciences, Inc.

Feast under the Singapore Flyer, one of the world's largest Giant Observation Wheel at a height of 165m. Enjoy the city skyline of Singapore, snap lots of pictures of Marina Bay Sands across the waters, as well as the F1 pit paddocks and grandstands of the recently concluded Formula 1 Singapore Grand Prix.

PODIUM PRESENTATIONS

Thursday, 27th Sep

Venue: Shaw Foundation Alumni House

Podium session 1: Nanoparticles in drug delivery
Podium Chairs:
Sofia BISSO, ETH Zurich
Leah WRIGHT, University of South Australia
Sponsored by Amgen

Code	Time	Title	Presenter
S1	8:00 AM	Young´s moduli of gelatin nanoparticles and how their mechanical properties influence the *in vitro* fate	Agnes-Valencia WEIß
S2	8:20 AM	Isolation of exosomes for drug delivery applications	Britta HETTICH
S3	8:40 AM	Synthesis, characterization, and *in vitro* and *in vivo* evaluation of biodegradable silica nanoparticles	Pouya HADIPOUR
S4	9:00 AM	The application of light scattering techniques to investigate surface distribution of cell-penetrating peptides on polymeric nanoparticles	Sarah STRECK

Coffee break and poster session
9:20 AM – 10:10 AM
Sponsored by AB SCIEX (Distribution)

Podium session 2: Lipid-based drug delivery
Podium Chairs:
Romain LEBOUX, Leiden University
Sajedehsadat MAGHREBI, University of South Australia
Sponsored by Amgen

Code	Time	Title	Presenter
S5	10:10 AM	Tetraether liposomes loaded with hypericin for photodynamic therapy of ovarian cancer cells	Nikola PLENAGL
S6	10:30 AM	Improved oral bioavailability by supersaturated silica-lipid hybrid formulations	Hayley SCHULTZ
S7	10:50 AM	A digestion/permeation model based on artificial membranes for studies of performance of lipid-based formulations	Oliver HEDGE
S8	11:10 AM	Cyclodextrin complexation as a tool to allow repurposing of chlorpromazine for treatment of acute myeloid leukemia	Zhiqiang WANG
S9	11:30 AM	Fabrication of 3D-printed biocompatible hydrogel patch for the local delivery of pegylated liposomal doxorubicin	Jin LIU

Lunch
11:50 AM – 1:10 PM
Sponsored by Allergan Plc

Podium session 3: Drug delivery and formulation
Podium Chairs:
Julie CALAHAN, University of Kentucky
Darsheen Kotak, Institute of Chemical Technology
Sponsored by Boehringer-Ingelheim Pharmaceuticals, Inc.

Code	Time	Title	Presenter
S10	1:10 PM	Hydrogels releasing nucleic acid-loaded polyplexes	Lies FLIERVOET
S11	1:30 PM	Bioresponsive self-assembled DNA hydrogels for antimicrobial peptide loading and therapy	Sybil OBUOBI
S12	1:50 PM	Inkjet-based 3D printing of solid oral dosage manufacturing	Koyel SEN
S13	2:10 PM	Triple HIV drug combination and lipid excipients form stable solid state interactions leading to an ordered matrix for enhanced drug delivery	Jesse YU
S14	2:30 PM	Treatment with vernix caseosa based formulation alters the skin lipid composition of regenerated stratum corneum	Walter BOITEN

Coffee break and poster session
2:50 PM – 3:40 PM
Sponsored by Blackmores (Singapore) Pte Ltd

Podium session 4: Drug delivery and formulation
Podium Chairs:
Caroline ALVEBRATT, Uppsala University
Janki ANDHARIYA, University of Connecticut
Sponsored by Boehringer-Ingelheim Pharmaceuticals, Inc.

Code	Time	Title	Presenter
S15	3:40 PM	Probing compression and storage induced surface crystallization with rapid multi-modal nonlinear optical imaging	Dunja NOVAKOVIC
S16	4:00 PM	Probing miscibility and mobility in lyophilized protein formulations using solid-state nuclear magnetic resonance spectroscopy	Ashley LAY
S17	4:20 PM	Investigation of drug dissolution and absorption from low-density inhalation budesonide formulations in a cell culture integrating impactor system	Ursula THORMANN
S18	4:40 PM	Impact of amorphization strategy and drug loading on dissolution rate of spray dried indomethacin	Yongquan LI

GPEN networking event: Cultural Night
Sponsored by Ronald T. and Pamela K. Borchardt

Time	Event
5:00 PM	Bus transfer to Marina Barrage
6:00 PM	Cultural Night at Marina Barrage and Satay by the Bay

Friday, 28th Sep

Venue: Shaw Foundation Alumni House

Podium session 5: Targeted drug delivery and pharmacogenomics
Podium Chairs:
Montira TANGSANGASAKSRI, University of Wisconsin-Madison
Akihiro MATSUMOTO, Kyoto University
Sponsored by GlaxoSmithKline

Code	Time	Title	Presenter
S20	8:00 AM	Development of a nanostructured RNA/DNA adjuvant targeting Toll-like receptor 7/8	Fusae KOMURA
S21	8:20 AM	Tumor microenvironment sub-type immune cells precise delivery by extravasation-oriented targeting-ligand reemerge strategy: the first step on the way to effective cancer immunotherapy	Tianqi WANG
S22	8:40 AM	Characterizing patient-derived induced neural stem cells as a drug delivery platform for glioblastoma	Shaye HAGLER
S23	9:00 AM	Genome-wide analyses associate variants in Rho GTPase signaling pathways with microtubule targeting agent-induced sensory peripheral neuropathy	Katherina CHUA
S24	9:20 AM	Effect of ABCB1 haplotypes on tacrolimus disposition in heart transplant recipients	Kris ORESCHAK

Coffee break and poster session
9:40 AM – 10:30 AM
Sponsored by Silvergate Pharmaceuticals, Inc.

Podium session 6: Pharmacokinetics
Podium Chairs:
Surabhi TALELE, University of Minnesota
Tianjing REN, The Chinese University of Hong Kong
Sponsored by GlaxoSmithKline

Code	Time	Title	Presenter
S25	10:30 AM	Metabolomic/proteomic analysis of orphan transporter monocarboxylate transporter 6 (MCT6): evidence of a role in lipid metabolism	Robert JONES
S26	10:50 AM	Quantification of postmenopausal osteoporosis population: a system pharmacology approach using bisphosphonates	Yi Ting (Kayla) LIEN
S27	11:10 AM	Investigation of endogenous substrates of OCT2 as surrogate biomarker for the prediction of transporter-mediated drug-drug interaction	Takeshi MIYAKE
S28	11:30 AM	Quantification of 2-hydroxypropyl-β-cyclodextrin in human intestinal fluids helps to understand the intraluminal drug behavior following the oral intake of Sporanox®	Philippe BERBEN
S29	11:50 AM	A co-perfused *in vivo* absorption model to probe the simultaneous digestion and drug absorption process from lipid-based formulations	Estelle SUYS

Lunch
12:10 PM – 1:30 PM
Sponsored by Bristol-Myers Squibb Company

Podium session 7: Proteomics and biomarkers
Podium Chairs:
Naehwan BAEK, Chungnam National University
Sun Jin KIM, University of Utah
Sponsored by Pfizer, Inc.

Code	Time	Title	Presenter
S30	1:30 PM	Quantitative proteomics-based characterization of apical and basolateral membrane protein localization in human retinal pigmental epithelial cells	Kazuki SATO
S31	1:50 PM	Isolation and characterization of liver-derived exosomes by liver marker protein asialoglycoprotein-1 (ASGR1) and proteomic analysis	Laura DRBOHLAV
S32	2:10 PM	Fibrillation kinetics of therapeutic peptides by hydrogen/deuterium exchange mass spectrometry (HDX-MS)	Harshil RENAWALA
S33	2:30 PM	Evaluation of paraoxonase-1 activity in the synovial fluid of osteoarthritis patients	Daniel AKATWIJUKA

Coffee Break and Poster Session
2:50 PM – 3:40 PM
Sponsored by Roche

Podium session 8: Signaling pathways
Podium Chairs:
Jie Kai TEE, National University of Singapore
Ebehiremen AYEWOH, University of Maryland
Sponsored by Pfizer, Inc.

Code	Time	Title	Presenter
S34	3:40 PM	HSPG2/Perlecan as a therapeutic target in metastatic cancers	Vidhi KHANNA
S35	4:00 PM	Reversal of fatty liver by peripheral CB1 receptor blockade is SIRT1/PPARα dependent	Shahar AZAR
S36	4:20 PM	Impact of the canonical Wnt signaling pathway on blood-brain barrier (BBB) phenotype	Marlyn LAKSITORINI

GPEN networking event: Gala Dinner
Sponsored by Gilead Sciences, Inc.

Time	Event
4:40 PM	Bus transfer to Flyer Event Hall, Singapore Flyer
6:30 PM	Gala Dinner at Flyer Event Hall, Singapore Flyer

SHORT COURSES

Saturday, 29th Sep

Venue: Faculty of Science, Block S16

Short courses are sponsored by Absorption Systems LP

Short course 1: Challenges and progress in drug delivery: Prodrugs and macromolecules
Location: LT31 (Level 3)
Leaders:
Prof. Teruna SIAHAAN, University of Kansas
Prof. Donald MILLER, University of Manitoba

Code	Time	Title	Presenter	Affiliation
C11	8:30 AM	General overview of approaches for prodrug and macromolecule delivery across biological barriers	Teruna SIAHAAN	University of Kansas
C12	9:05 AM	Prodrug approaches for oral absorption	Patrick AUGUSTIJNS	KU Leuven
C13	9:40 AM	Nanocage therapeutics mediating immune checkpoint blockade awakens immunity against cancer with an immunogenic cell death (ICD)-inducing doxorubicin prodrug	Na Kyeong LEE (Student)	Seoul National University
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C14	10:20 AM	Prodrug and macromolecule approaches for delivering drugs to the brain	Donald MILLER	University of Manitoba
C15	10:55 AM	Using exosomes as natural carriers for nucleic acid transfer: an activity-composition analysis	Juliane NGUYEN	University at Buffalo
C16	11:30 AM	Reprogrammed exosomes as a novel immunotherapy for breast cancer	Xiaojing SHI (Student)	University of Southern California
C17	11:50 AM	Design and *in vitro/in vivo* evaluation of LyP-1 containing SMEDDS for active targeting in breast cancer therapy	Selin Seda TIMUR (Postdoc)	Hacettepe University

Short course 2: Optimizing drug-like properties in discovery and development
Location: Room 04-30 / 04-32 / 04-34 (Level 4)
Leader: Prof. Michael HAGEMAN, University of Kansas

Code	Time	Title	Presenter	Affiliation
C21	8:30 AM	Effect of protein binding on hepatic clearance, intracellular concentration and IC_{50} predictions	Kenneth BROUWER	BioIVT
C22	9:05 AM	Solubility, biopharmaceutical profiling and formulate-ability: computational tools for assessment during the drug discovery stage	Christel BERGSTRÖM	Uppsala University
C23	9:40 AM	Dodecylated and non-dodecylated polycations as promising siRNA complexing agents for skin diseases treatment	Marcelo KRAVICZ (Student)	University of São Paulo
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C24	10:20 AM	Optimizing for developability and maximizing oral exposure in discovery	Michael HAGEMAN	University of Kansas
C25	10:55 AM	Processing-induced phase transformations	Raj SURYANARAYANAN	University of Minnesota
C26	11:30 AM	Characterization of the PEGylated-functional upstream domain peptide (PEG-FUD): a potent fibronectin assembly inhibitor with potential as an anti-fibrotic therapeutic	Pawel ZBYSZYNSKI (Student)	University of Wisconsin-Madison
C27	11:50 AM	Chloroquine nanoparticles improve biodistribution and sensitize pancreatic cancer to oxaliplatin and radiation therapy	Richard SLEIGHTHOLM (Student)	University of Nebraska Medical Center

Short course 3: Stability and formulation of biomolecules: Proteins and vaccines
Location: Room 03-07 (Level 3)
Leader: Prof. Christian SCHÖNEICH, University of Kansas

Code	Time	Title	Presenter	Affiliation
C31	8:30 AM	The ever increasing complexity of protein degradation pathways	Christian SCHÖNEICH	University of Kansas
C32	9:05 AM	Forced degradation of biologicals: why, how and wow	Wim JISKOOT	Leiden University
C33	9:40 AM	Cationic microparticle carrier system as adjuvant approach for pandemic influenza vaccines; proof-of-principle with adsorbed whole inactivated H5N1 influenza	Celine LEMOINE (Student)	University of Geneva
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C34	10:20 AM	Biosimilarity under stress: a forced degradation study of Remicade and Remsima	Anna SCHWENDEMAN	University of Michigan
C35	10:55 AM	Synthetic high-density lipoprotein nanodiscs for personalized vaccination against glioblastoma multiforme	Lindsay SCHEETZ (Student)	University of Michigan
C36	11:15 AM	Functional evaluation of mucoadhesive liposome aiming oral delivery of peptide drugs	Keiko MINAMI (Student)	Setsunan University
C37	11:35 AM	Synthesis of functionalised dendritic silica nanoparticles for delivery of anti-diabetic peptide	Muhammad Mustafa ABEER (Student)	University of Queensland

Short course 4: Application of computational analysis in drug discovery and development
Location: Room 04-37 (Level 4)
Leader: Prof. Yu-Zong CHEN, National University of Singapore

Code	Time	Title	Presenter	Affiliation
C41	8:30 AM	Artificial intelligence and drug discovery	Yu-Zong CHEN	National University of Singapore
C42	9:15 AM	Computational strategies in search for drug design scaffolds from natural products	Habibah A WAHAB	Universiti Sains Malaysia
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C43	10:20 AM	High-content analysis of constitutive androstane receptor nuclear translocation accurately identifies physiologically-relevant activators	Bryan MACKOWIAK (Student)	University of Maryland

Code	Time	Title	Presenter	Affiliation
C44	10:40 AM	Computational modelling of protein-ligand interactions, applied to ligand discovery and function mechanism studies	Hao FAN	Bioinformatics Institute, A*STAR
C45	11:25 AM	Development of novel method to analyze transcriptome profile data	Tadahaya MIZUNO	University of Tokyo

Short course 5: Population pharmacokinetic modeling and its clinical application
Location: Room 04-35 (Level 4)
Leader: Prof. Paul Chi-Lui HO, National University of Singapore

Code	Time	Title	Presenter	Affiliation
C51	8:30 AM	Full covariates modelling using random effects to overcome the bias of covariate selection	Hwi-Yeol YUN	Chungnam National University
C52	9:05 AM	Population pharmacokinetic (PK) - pharmacogenomic (PG) - pharmacodynamic (PD) modeling of inhaled budesonide/formoterol combination in Korean asthmatics	Junyeong KIM (Student)	Chungnam National University
C53	9:25 AM	R for PK simulation	Cheng-Cai TANG	Lilly Centre for Clinical Pharmacology Pte Ltd
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C54	10:20 AM	Modern tools to enhance clinical utility of modelling and simulation	Lai-San THAM	Lily Centre for Clinical Pharmacology Pte Ltd
C55	10:55 AM	Identifying clinically relevant sources of variability: The clopidogrel challenge	Stephan SCHMIDT	University of Florida
C56	11:30 AM	Dried blood spots for population pharmacokinetic studies of antiepileptic drugs and phenotyping drug resistant epilepsy	Paul Chi-Lui HO	National University of Singapore

Short course 6: Mechanistic and quantitative modeling in pharmacology and toxicology
Location: Room 04-36 / 04-38 / 04-39 (Level 4)
Leader: Prof. Eric Chun Yong CHAN, National University of Singapore

Code	Time	Title	Presenter	Affiliation
C61	8:30 AM	Introduction on mechanistic and quantitative modeling in pharmacology and toxicology	Eric CHAN	National University of Singapore
C62	9:00 AM	Development, validation and application of model to guide complex injectable drug-combination products	Rodney HO	University of Washington
C63	9:40 AM	A comparison of two biorelevant *in vitro* drug release methods for nanotherapeutics based on advanced physiologically-based pharmacokinetic modelling	Fabian JUNG (Student)	Goethe University Frankfurt
	10:00 AM	Tea break (foyer outside LT31, Level 3)		
C64	10:20 AM	Mechanistic modeling to evaluate bile acid-mediated drug-induced liver injury and hepatic transporter interactions	Kim BROUWER	University of North Carolina at Chapel Hill
C66	11:00 AM	Extended pharmacokinetic model of the rabbit eye for intravitreal and intracameral injections of macromolecules: quantitative analysis of anterior and posterior elimination pathways	Marko LAMMINSALO (Student)	University of Eastern Finland
C67	11:20 AM	Integrating host-pathogen interactions: A systems-based approach to address antimicrobial resistance	Gauri RAO	University of North Carolina at Chapel Hill

Lunch
12:10 PM – 1:30 PM
Sponsored by Dhiren and Kailas Thakker

Closing and award ceremony
1:30 PM – 2:00 PM
Sponsored by Journal of Pharmaceutical Sciences-Published by the American Pharmacists Association

POSTER PRESENTATIONS

Thursday, September 27th

Poster	Title, author, and affiliation
A1	Development of iRGD conjugated semifluorinated nanoassemblies for targeted drug delivery to solid tumors Montira TANGSANGASAKSRI, University of Wisconsin-Madison
A2	Developing Chitosan nanoparticles loaded with scutellarin/ 2-hydroxypropyl-beta-cyclodextrin inclusion complexes for treatment of Alzheimer's Disease Li ZHANG, National University of Singapore
A3	Photochemical internalization of targeted nanoparticles for the intracellular delivery of a cytotoxic protein Lucía Amine MARTÍNEZ JOTHAR, Utrecht University
A4	Formation and investigation of high-aspect ratio polymeric nanocapsules via vesicle templation with RAFT polymerization and their interactions with cells Yunxin XIAO, Monash University
A5	Novel polymeric micelles for siRNA delivery Franck MARQUET, University of Geneva
A6	Polymeric nanocarriers for intravitreal delivery Vijayabhaskarreddy JUNNUTHULA, University of Helsinki
A7	Intraperitoneal delivery of neutron activatable mesoporous silica nanoparticles for the treatment of ovarian cancer peritoneal metastasis Derek HARGROVE, University of Connecticut
A8	Development of exosome assembly formed by utilization of DNA hybridization and its application for cancer vaccine Akihiro MATSUMOTO, Kyoto University
A9	Bioinspired cell-derived nanovesicles: a novel class of drug delivery systems Yub Raj NEUPANE, National University of Singapore
A10	Phytantriol modified with DSPE-PEG2000: A temperature-responsive lipid-based nanomaterials for on-demand drug delivery Xiaohan SUN, Monash University
A11	Particle design of porous PLGA microparticles encapsulating poor water-soluble drug as a novel inhalation formulation of lung cancer Miho KOMATSU, Nagoya City University
A12	Modification of cationic solid lipid nanoparticles with hyaluronic acid to overcome multi drug resistance Sang Eun LEE, Chungnam National University
A13	Quantification of nanoparticle uptake in human terminal hair follicle in the context of alopecia areata Rebekka CHRISTMANN, University of Saarland
A13b	Lipid-polymer hybrid nanoparticles (LPNs) for efficient pulmonary delivery of nucleic acids: Lessons learnt from quality-by-design based optimization Kaushik THANKI, University of Copenhagen
A14	High density lipoprotein as a novel lymph-directing platform for immunotherapy delivery Gracia GRACIA, Monash University
A15	Monocyte-targeted delivery to immune cells using modified polysaccharide particles Franklin AFINJUOMO, University of South Australia
A16	Development of the first monoclonal antibody for detection of elastin-like polypeptides Aida KOUHI, University of Southern California
A17	Enhanced oral absorption with nanostructured hydrogel biomaterials Elizabeth LEVY, University of California San Francisco
A18	Nanofibrillated cellulose hydrogel as a lyoprotectant in the freeze-drying of HepG2 3D spheroids Arto MERIVAARA, University of Helsinki
A19	Evaluation of taste-masking efficiency for the development of an orodispersible film formulation containing ondansetron hydrochloride Wen-Chin FOO, National University of Singapore
A20	Development of pH-responsive hydrated composite Eudragit-dendrimer formulations for drug delivery Cheryl WONG, National University of Singapore
A21	Mesoporous silica nanoparticles (MSN) for antimicrobial peptide delivery: The influence of PEG crosslinker length on activity Vanitha SELVARAJAN, National University of Singapore

Poster	Title, author, and affiliation
A22	Development of peptide-based oral vaccine against hookworm Stacey BARTLETT, University of Queensland
A23	Drug delivery to the colon using polysaccharides degraded by the human microbiome and pH-responsive film coatings Michael LANZ, University of Basel
A24	Development of microneedles coated with bleomycin for the treatment of skin warts Han Sol LEE, Chungnam National University
A25	The use of light as a therapeutic agent for treatment of diseases Lili DUSE, Philipps University of Marburg
A26	Human adipose derived mesenchymal stromal cells cultured with wood derived nanofibrillar cellulose Jasmi KIISKINEN, University of Helsinki
A27	A fast and precise method for the quantification of PLGA and gelatin based drug delivery systems Aljoscha KÖNNEKE, University of Saarland
A28	New methods to evaluate the pharmaceutical equivalence of herbal drugs Quyen TRAN THI, Chungnam National University
A29	Development, current applications and future roles of biorelevant two stage *in vitro* testing in drug development Tom FIOLKA, Goethe University Frankfurt
A30	Effects of drug particle size and lipid additives on the degree of drug coating by paraffin wax in spray congealing Hongyi OUYANG, National University of Singapore
A31	Influence of polymer structure on controlled release of docetaxel: a comparison of non-bio degradable polymer films for esophageal drug eluting stents Fatemeh FOULADIAN, University of South Australia
A32	Design and physicochemical characterization of fenofibrate solid dispersion by supercritical anti-solvent process Jungbin AHN, Chungnam National University
A33	Effect of calcium ascorbate on the gastric acidity and bioavailability Donghyun KIM, Chungnam National University
A34	Homogeneous immunoassay for the detection of EGFR-HER2 heterodimerization on cell surface Sun Jin KIM, University of Utah
A35	Magnesium isoglycyrrhizinate inhibits SMAD2/3 pathway and induced senescence in TGF-β-activated hepatic stellate cells Jie-Kai TEE, National University of Singapore
A36	Nanomaterials as novel inhibitors that ameliorate fibrosis, adhesion and migration of hepatic stellate cells Fei PENG, National University of Singapore
A37	Overexpression of PKCzeta-SUMO mutant in endothelial cells limits angiogenesis in breast cancer cell Naehwan BAEK, Chungnam National University
A38	Palmitoylation of the apical sodium dependent bile acid transporter (ASBT;SLC10A2;IBAT) Ebehiremen AYEWOH, University of Maryland
A39	Improvement of glucose homeostasis by cucurbitane triterpenoids from the fruits of *Momordica charantia* through IRS-1 activation in diabetic mice Joo-Hui HAN, Chungnam National University
A40	Cytoprotective effects of hypothermia in various acute organ toxicities Yeong-Lan TAN, National University of Singapore
A41	Systems pharmacological analysis of a combination therapy to overcome HER2 and mTOR-therapies resistance in breast cancer Tanaya VAIDYA, University of Florida
A41b	Benznidazole combination therapy with new compound, Neq 821, has potential to protect mice against acute experimental infection of Chagas disease Carla LOPES, University of São Paulo
A42	Synthesis of vaccine candidates against Group A Streptococcus Chuankai DAI, University of Queensland
A43	Development of an aryloxazole class of Hepatitis C virus inhibitors targeting the entry stage of the viral replication cycle Nicholas KLUS, University of North Carolina at Chapel Hill
A44	Synthesis and biological evaluation of cationic amphiphilic indoles as antimycobacterial agents Samuel Agyei NYANTAKYI, National University of Singapore

Poster	Title, author, and affiliation
A45	Substitution of terminal amide with 1H-1,2,3-triazole: identification of unexpected class of potent antibacterial agents Fangchao BI, Shandong University
A46	Design and evaluation of novel beta-hairpin peptides as anti-infectives Nhan Dai Thien TRAM, National University of Singapore
A47	Complex speciation modeling to predict the effective concentrations of chelators in human plasma John PRYBYLSKI, University of North Carolina at Chapel Hill
A48	Development and *in vitro* validation of a computational model to predict MRP3 inhibitors Matthew WELCH, University of Maryland
A49	Multi-protein dynamic combinatorial chemistry: a novel strategy that leads to simultaneous discovery of subfamily-selective inhibitors against nucleic acid demethylases FTO and ALKBH3 Mohua DAS, National University of Singapore
A50	Biomimetic fabrication of DOPA based nano-coatings for stimuli-responsive release system Qinghua LYU, National University of Singapore
A51	Effects of mucilage extracts from *Pereskia bleo* leaves on blood coagulation time Kamonlawan CHOMCHOPBUN, National University of Singapore
A53	Pharmacokinetics study and biodistribution of HCPT-loaded tributyrin emulsion in rats Shili YANG, National University of Singapore
A54	*In vitro* - *in vivo* correlation for two bioequivalent lidocaine patches under transient heat exposure Sherin THOMAS, University of Maryland
A55	Development of mechanism based pharmacokinetics model for implementation of food effect on drug absorption Hyun-moon BACK, Chungnam National University
A56	Prediction of human pharmacokinetics of subcutaneously administered depot formulation using MBPK model Fiona Ge GAO, Goethe University Frankfurt
A57	Quantification of raloxifene in mouse plasma and tissues by ultra-high performance liquid chromatography-tandem mass spectrometry Sumit BANSAL, National University of Singapore
A58	CNS delivery of VX-970: a selective ATR inhibitor for radiosensitization in GBM Surabhi TALELE, University of Minnesota
A59	Elucidation of transporters involved in tissue distribution and urinary excretion of proguanil and cycloguanil in mice Yukana TOMODA, University of Tokyo
A60	Brain permeability of apolipoprotein A1 (ApoA1): Implications for Alzheimer's disease Andrew ZHOU, University of Minnesota
A61	Time-dependent inhibition of piperine and its impact on the metabolism of carbamazepine Tianjing REN, The Chinese University of Hong Kong
A62	Melanosomal drug uptake in the retinal pigment epithelium Laura HELLINEN, University of Eastern Finland
A63	Effect of permeability enhancers on paracellular transport of furosemide across Caco-2 cell monolayers Nihan IZAT, Hacettepe University
A64	Development and optimization of a direct contact blood brain barrier model for *in vitro* permeability screening Kelsey LUBIN, Purdue University

Friday, September 28th

Poster	Title, author, and affiliation
B1	Novel mesoporous nanoparticles for the targeted delivery of anticancer agents to estrogen receptor overexpressing breast cancer Candace DAY, University of South Australia
B2	Examining the interactions between mesoporous silica particles and digestion of dietary components Kellie MAY, Monash University
B3	Calcium phosphate nanoparticles for the dual delivery of bisphosphonates and pDNA Sofia BISSO, ETH Zurich
B4	Doxorubicin-loaded MPI conjugates: Synthesis and in-vitro characterization Ankitkumar PARIKH, University of South Australia
B5	Chitosan nanoparticles for oral antigen delivery: A permeability approach Leah WRIGHT, University of South Australia
B6	Sublingual film of salmon calcitonin loaded hydroxyapatite nanoparticles as a non-invasive alternative to parenteral administration Darsheen KOTAK, Institute of Chemical Technology
B7	Preparation of microRNA34a-loaded chitosan nanoparticles to upregulate the expression of microRNA-34a in MDA-MB-231 cells Xiaoxia YANG, Shandong University
B8	Validation of purification methods for extracellular vesicles Jacopo ZINI, University of Helsinki
B9	The microRNA regulatory landscape of MSC-derived exosomes: A systems view Scott FERGUSON, University at Buffalo
B10	Development and *in vitro* characterization of novel PLGA nanoparticles-Lipid Hybrid (PLH) microparticles for pulmonary delivery of rifampicin Sajedehsadat MAGHREBI, University of South Australia
B11	Lymphatic uptake of liposomes after intraperitoneal administration primarily occurs via the diaphragmatic lymphatics and is surface property dependent Given LEE, Monash University
B12	Self-nanoemulsifying drug delivery system of resveratrol trimethyl ether: Preparation, characterization and pharmacokinetic evaluation Yu DAI, National University of Singapore
B13	Skin drug permeation characteristics of oligochitosan- and carboxymethyloligochitosan-carboxymethyl-5-fluorouracil conjugate nanoparticles Mazita MOHD DIAZ, Universiti Teknologi Mara
B14	Enhanced photodynamic therapy using nanoencapsulated curcumin Michael R. AGEL, Philipps University of Marburg
B15	Intratumoral injection of dextran-CpG oligonucleotide conjugates for enhanced immune-stimulation for cancer therapy Hien NGUYEN, University of Otago
B16	Kinetic tuning of antibody-biogel interactions for enhanced barrier properties Jennifer SCHILLER, University of North Carolina at Chapel Hill
B17	PLGA implants for long-acting release of anti-VEGF monoclonal antibody in a rabbit retinal vascular leakage model Jennifer WALKER, University of Michigan
B18	Indocyanine green loaded PLGA film coated coronary stents for photo-triggered in situ biofilm eradication Hendrik VÖGELING, Philipps University of Marburg
B19	Impact of substrate stiffness on dermal papilla aggregates in hydrogel microgels Justin TAN, National University of Singapore
B20	Electrospinning of high-content chitosan/polyethylene oxide fibers in GRAS acids Mai BAY STIE, University of Copenhagen
B21	Using coiled coil forming peptide to attach a peptide with high affinity Romain LEBOUX, Leiden University
B22	Infection responsive delivery of glycoside hydrolase and antibiotic combination Chelsea THORN, University of South Australia
B23	Development of the stable long acting injectable parenteral dosage form of omeprazole for horses Yunmei SONG, University of South Australia

Poster	Title, author, and affiliation
B24	*In vivo* brain delivery of proteins through the BBB Brian KOPEC, University of Kansas
B25	Mitigation of the pharmaceutical food effect: investigation of nanocrystals and lipids Tahlia MEOLA, University of South Australia
B26	A high-throughput method to predict the *in vivo* exposure of different drug delivery systems Caroline ALVEBRATT, Uppsala University
B27	Evaluation of effect of minor manufacturing changes and establishment of IVIVC for compositionally equivalent parenteral microsphere drug products Janki ANDHARIYA, University of Connecticut
B28	Design of solubility studies in the context of BCS biowaiver monographs Gerlinde PLÖGER, Goethe University Frankfurt
B29	Effect of proteins radicals on the stability of polysorbate 80: fatty acid cis-trans isomerization Indira PRAJAPATI, University of Kansas
B30	Correlating the effect of magnesium stearate hydrate form, chemical composition and particle size with tablet dissolution Julie CALAHAN, University of Kentucky
B31	Effect of polymeric matrix and film formulation on development of verapamil extended release tablet Arnas LAKHIEW, Chulalongkorn University
B32	The comparison between co-melted and spray dried clotrimazole-PVP/VA solid dispersions systems Ahmad Ghazali ISMAIL, Universiti Sains Malaysia
B33	Formulation development of a recombinant protein based non-replicating rotavirus (NRRV) vaccine candidate: Antigen-adjuvant-preservative interactions Sanjeev AGARWAL, University of Kansas
B34	Structurally defined heparan sulfate protects from acetaminophen-induced acute liver failure Katelyn ARNOLD, University of North Carolina at Chapel Hill
B35	Clioquinol-mediated distribution of zinc and copper regulates the blood-brain barrier expression of breast cancer resistance protein (ABCG2) Chris YAP, Monash University
B36	Doxorubicin prodrug that binds apoptotic cells and activated by apoptotic caspase-3 as a component of concurrent chemoradiotherapy for improved therapeutic index Youngseok CHO, Seoul National University
B37	Radio-gene therapy targeting RanBP17 gene for down regulation of tumour proliferation in head and neck carcinomas Shashank Reddy PINNAPIREDDY, Philipps University of Marburg
B38	Effect of autophagy regulation on apoptosis in platelet-derived growth factor-BB stimulated vascular smooth muscle cells Do-Hyung LEE, Chungnam National University
B39	Antigen-drug conjugates in the treatment of autoimmunity Matthew CHRISTOPHER, University of Kansas
B40	A study of functional analyses for carboxylesterase type 2 isozymes of cynomolgus monkeys Maori TANAKA, Kumamoto University
B41	Disease interception of autoimmune disease using soluble antigen arrays Melissa PRESSNALL, University of Kansas
B41b	Perception, attitudes and knowledge of pharmacists towards antimicrobial stewardship at nursing homes Aysu SELCUK, National University of Singapore
B42	The structure-stability-toxicity relationships of L-DOPA and dopamine thioethers in neuronal cultures Sanzhar KARATAYEV, National University of Singapore
B43	Design and comparative evaluation of the anticonvulsant profile, carbonic- anhydrate inhibition and teratogenicity of novel carbamate derivatives of branched aliphatic carboxylic acids with 4-aminobenzensulfonamide David BIBI, The Hebrew University of Jerusalem
B44	Targeted delivery of potent immunosuppressants for treatment of ulcerative colitis Peter KLEINDL, University of Kansas
B45	Synthesis and mycobacterial dihydrofolate reductase inhibitory activity evaluation of 4,6-diamino-1,2-dihydro-2-aryl-1-alkyoxyphenyl[1,3,5]triazines Edward LONG, National University of Singapore
B46	Advances in the development of peptidomimetics as potential antimicrobials: A comparison of tetrameric and octameric peptoids Bettina FLECK, National University of Singapore

Poster	Title, author, and affiliation
B47	Calcaratarin D attenuates inflammatory responses through the inhibition of NF-kB activation Thi Ngoc Quy TRAN, National University of Singapore
B48	Development of a macromolecular prodrug of tofacitinib for the sustained treatment of inflammatory arthritis Xin WEI, University of Nebraska Medical Center
B49	Polymorphs of an orally available analogue of diethylenetriaminepentaacetic acid: Physical and thermal characterization Carla COSTE SANCHEZ, University of North Carolina at Chapel Hill
B50	Medicinal plants used for erectile dysfunction Valerie SIN, National University of Singapore
B51	Reversible single crystal-to-single crystal phase transition with low-temperature induced twinning of diphenhydramine citrate salt Kunlin WANG, University of Minnesota
B53	Inhibition of human aldehyde oxidase by bazedoxifene and lasofoxifene Shiyan CHEN, National University of Singapore
B54	Slow and tight binding inhibition kinetics of CYP17A1 by abiraterone and its active metabolite Eleanor CHEONG, National University of Singapore
B55	Human CYP2J2 inhibition by azole antifungals Jacqueline LEOW, National University of Singapore
B56	*In vitro* quantification of sequential metabolism kinetics of ∆9-tetrahydrocannabinol and its metabolites Gabriela PATILEA-VRANA, University of Washington
B57	Investigation of the discriminatory power of dissolution specifications for a BCS-based biowaiver via pharmacokinetic modeling Martin HOFSÄSS, Goethe University Frankfurt
B58	A pharmacometabolomics approach for predicting tenofovir diphosphate (TFV-DP) concentrations in dried blood spots (DBS) Mustafa IBRAHIM, University of Colorado
B59	Pharmacokinetic and allometric scaling studies of nanoparticle formulations of anthracyclines James BEAUDOIN, University of North Carolina at Chapel Hill
B60	Tryptophan metabolism and IDO/TDO expression in bladder cancer: A case-control study in Singapore Sze-Han LEE, National University of Singapore
B61	Pharmacokinetic disposition of cox-inhibitors for the prevention/treatment of colorectal cancer Glenn LEMMENS, KU Leuven
B62	A microfluidic enzymatic digestive system based on chaotic micromixers Pim DE HAAN, University of Groningen
B63	Predicting pulmonary pharmacokinetics from *in vitro* properties of dry powder inhalers Mong-Jen CHEN, University of Florida
B64	Primary human hepatocyte spheroids cultured and used in high-throughput screening format Niklas HANDIN, Uppsala University

TRANSPORTATION AND OTHER INFORMATION

GPEN2018 venue addresses

Kent Ridge Guild House (KRGH)
9 Kent Ridge Drive
Singapore 119241

Shaw Foundation Alumni House (SFAH)
11 Kent Ridge Drive
Singapore 119244

Faculty of Science (FoS), LT31 at Block S16
National University of Singapore
Block S16 Level 3
6 Science Drive 2
Singapore 117546
Closest MRT: Kent Ridge MRT

Social events' addresses

Marina Barrage
8 Marina Gardens Drive
Singapore 018951

Satay by the Bay
18 Marina Gardens Drive
Singapore 018953
Closest MRT: Bayfront MRT

Singapore Flyer
30 Raffles Avenue
Singapore 039803
Closest MRT: Promenade MRT

Hotels' addresses

Orchard Hotel Singapore
442 Orchard Road
Singapore 238879

Park Hotel Alexandra
323 Alexandra Road
Singapore 159972

Park Avenue Rochester
31 Rochester Drive
Singapore 138637

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Grab app (book on iOS, Android)
Taxi (flag on road)
Mass Rapid Transit, MRT (single trip/tourist ticket available)
Note: Uber (Singapore) is not available in the region

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NUS Campus security	6874 1616
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Fire/emergency ambulance	995
Police	999

Note: Singapore's country code is +65

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Wednesday, 26th September
- 3:00 PM, from your hotel to KRGH
- 8:00 PM, from KRGH to your hotel

Thursday, 27th September
- 7:00 AM from your hotel to SFAH
- 8:45 PM from Satay by the Bay to your hotel

Friday, 28th September
- 7:00 AM from your hotel to SFAH
- 8:45 PM from Singapore Flyer to your hotel

Saturday, 29th September
- 7:00 AM from your hotel to FoS

Transportation for Park Hotel Alexandra

Wednesday, 26th September
- 3:15 PM, from your hotel to KRGH
- 8:15 PM, from KRGH to your hotel

Thursday, 27th September
- 7:10 AM from your hotel to SFAH
- 8:45 PM from Satay by the Bay to your hotel

Friday, 28th September
- 7:10 AM from your hotel to SFAH
- 8:45 PM from Singapore Flyer to your hotel

Saturday, 29th September
- 7:10 AM from your hotel to FoS

Transportation for Park Avenue Rochester

Wednesday, 26th September
- 3:00 PM, from your hotel to KRGH
- 8:30 PM, from KRGH to your hotel

Thursday, 27th September
- 7:10 AM from your hotel to SFAH
- 8:45 PM from Satay by the Bay to your hotel

Friday, 28th September
- 7:10 AM from your hotel to SFAH
- 8:45 PM from Singapore Flyer to your hotel

Saturday, 29th September
- 7:10 AM from your hotel to FoS

Transportation for Others

Wednesday, 26th September
- 2:00 PM – 6:00 PM, Kent Ridge MRT to KRGH
- 7:00 PM – 8:30 PM, KRGH to Kent Ridge MRT

Thursday, 27th September
- 7:00 AM – 9:30 AM, Kent Ridge MRT to SFAH
- 5:00 PM – 5:30 PM from SFAH to Marina Barrage
- 8:45 PM from Satay by the Bay to Bayfront MRT

Friday, 28th September
- 7:00 AM – 9:30 AM, Kent Ridge MRT to SFAH
- 4:40 PM – 5:10 PM from SFAH to Singapore Flyer

Saturday, 29th September
- 7:00 AM – 9:30 AM, Kent Ridge MRT to FoS

Transfer to Changi Airport

Saturday, 29th September
- 2:30 PM from FoS to airport
- 3:30 PM from FoS to airport

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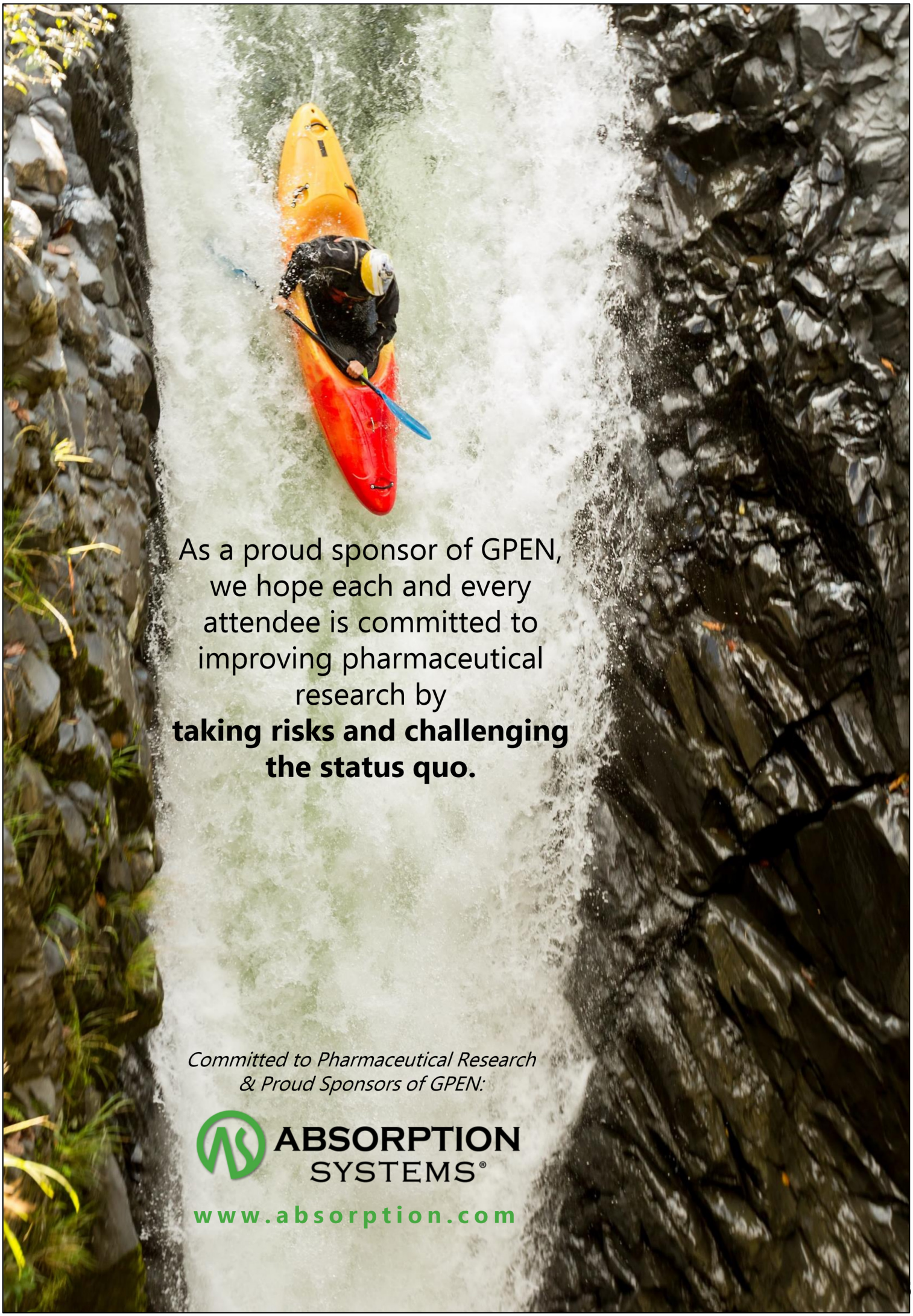
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Merli, Singapore’s mythical Merlion, is energetic and outgoing, and has many friends from around the world. Whenever his friends visit, Merli takes the opportunity to show them the best and most interesting parts of Singapore!

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