

The 2019 Liver Sinusoid Meeting:

20TH INTERNATIONAL SYMPOSIUM ON CELLS OF THE HEPATIC SINUSOID

The role of sinusoidal cells in disease and ageing



4-7 SEPTEMBER 2019

THE UNIVERSITY OF SYDNEY, AUSTRALIA

WWW.ISHSR.NET

SCIENTIFIC PROGRAM

Wednesday 4 September 2019				
Venue: Charles Perkins Centre, Level 6 seminar room				
16:30 - 20:00	Registration desk open			
17:00 - 17:15	Conference opening Prof Victoria Cogger, The University of Sydney, Australia (ISHSR President and Meeting Chair)			
17:15 - 18:00	Keynote address Liver cell plasticity – #100 Prof Anna Mae Diehl, Duke Liver Center, Duke University, Durham, USA			
18:00 - 19:30	Welcome reception			

	10.00 - 17.30	Welcome reception					
ı	Thursday 5 September 2019						
•	Venue: TAG Founda	enue: TAG Foundation Family Grandstand					
	08:30 - 1 <i>7</i> :30	Registration desk open					
	08:30 - 09:30	Keynote address Chair: Prof Antony Wheatley, National University of Ireland Galway, Ireland Cirrhosis of the liver: A vascular disease – #101 Prof Jaime Bosch, Hepatology, Department for Biomedical Research, Inselspital, University of Bern, Switzerland					
	09:30 - 09:55	Morning tea					
	10:00 - 11:00	Symposium 1: Sinusoids as a therapeutic target Chairs: Prof Bård Smedsrød, University of Tromsø, Norway Dr Le Thi Thanh Thuy, Osaka City University, Japan					
	10:00 - 10:30	Reinvigorating old holes in the ageing liver, and how to watch this happen – #102 Assoc Prof Peter McCourt, Department of Medical Biology, University of Tromso, Norway					
	10:30 - 11:00	Macrophages in liver diseases – #103 Prof Frank Tacke, Charité University, Berlin, Germany					
	11:00 - 12:30	Oral presentations 1 Chairs: Prof Anna Mae Diehl, Duke University, USA Dr Nicholas Hunt, The University of Sydney, Australia					
	11:00 - 11:15	TGF-β1 transcriptionally repressed cytoglobin expression and enhanced H2O2-induced oxidative DNA damage in activated HSCs – #104 Dr Misako Sato-matsubara, Osaka City University Graduate School of Medicine, Japan					
	11:15 - 11:30	Liver sinusoidal endothelial cell-specific knockdown of RUNX1 reduces hepatic inflammation and immune cell infiltration in mice models of non-alcoholic steatohepatitis – #105 Asst Prof Savneet Kaur, Institute of Liver and Biliary Sciences, India					
	11:30 - 11:45	Liver sinusoidal endothelial cells significantly cooperate in the phagocytic and adaptive T cell responses in an experimental model of cirrhosis – #106 Prof Rubén Francés, Universidad Miguel Hernández, Spain					
	11:45 - 12:00	Matrix stiffness, a key modulator of liver cells' phenotype-#107 Dr Sergi Guixé-Muntet, University of Bern, Switzerland					
	12:00 - 12:15	Opioid growth factor receptor-like 1; a common mediator of regeneration of fibrotic liver and fetal development of hepatic progenitor cells– #108 Asst Prof Takayo Yanagawa, Tokai University School of Medicine, Japan					
	12:15 - 12:30	Orphan Nuclear Receptor NR4A1: A novel key regulator of Hepatic stellate cell activation – #109 Dr Dinesh Mani Tripathi, Institute of Liver and Biliary Sciences, India					
	12:30 - 13:25	Lunch and poster discussions					
	13:30 - 15:30	Symposium 2: Sinusoids in ageing and disease Chairs: Prof Frank Tacke, Charité University, Germany Dr Sergi Guixé-Muntet, University of Bern, Switzerland					
	13:30 - 14:00	Old age and the liver sinusoid– #110 Prof David Le Couteur, Medicine, Concord Clinical School, ANZAC, The University of Sydney, Australia					
	14:00 - 14:30	Sinusoidal cells in ALD- #111 Dr Adam Kim, Liver Center, Cleveland Clinic, USA					
	14:30 - 15:00	Sinusoidal cells in HCC and NASH- #112 Prof Jean François Dufour, University Clinic for Visceral Surgery and Medicine, Inselspital, Switzerland					
	15:00 - 15:30	Post-translational modifications drive the effects of high-mobility group box-1 during liver fibrosis progression and resolution–#113 Prof Natalia Nieto, Department of Pathology, University of Chicago, USA					
	15:30 - 15:55	Afternoon tea					

16:00 - 17:30	Oral presentations 2 Chairs: Dr Adam Kim, Liver Center, Cleveland Clinic, USA Ms Nur Fatin Aqilah Raman, Universiti Sains Islam Malaysia, Malaysia				
16:00 - 16:15	Treatment of chronic liver diseases using a rationally designed protein that induces apoptosis by targeting integrin avb3 – #114 Prof Zhi-Ren Liu, Georgia State University, USA				
16:15 - 16:30	5-Hydroxytryptamine receptor 1A, a novel therapeutic target for portal hypertension – #115 Dr Chang-Peng Zhu, Changzheng Hospital, Second Military Medical University, China				
16:30 - 16:45	Effect of Candesatran cilexetil on the regulation of hepatic NOSTRIN-eNOS pathway in cirrhosis – #116 Dr Balasubramaniyan Vairappan, Jawaharlal Institute of Postgraduate Medical Education and Research, India				
16:45 - 17:00	LSEC phenotype restoration by statins reduces portal pressure in a rat NASH model – #117 Ms Miren Bravo, Vall d'Hebron Institut de Recerca (VHIR), Spain				
17:00 - 17:15	Angiotensin and cyclooxygenase-mediated mechanisms attenuate the increased transhepatic pressure gradient in rats with severe steatosis – #118 Ms Denise Van Der Graaff, University of Antwerp, Belgium				
17:15 - 17:30	NOX2 activation by the aging protein p52Shc leads to accelerated fibrosis in older mice – #119 Prof Natalie Torok, Stanford University, USA				

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Friday 6 September 2019					
Venue: TAG Foundation Family Grandstand					
08:15 - 09:00 Business Meeting (members only)					
08:30 - 13:00	Registration desk open				
09:00 - 10:00	Keynote address Chair: Dr Jordi Gracia-Sancho, IDIBAPS, Spain Mediators of inflammation and fibrogenesis associated with hepatic stellate cell biolog – #120 Prof Grant Ramm, QIMR Berghofer Medical Research Institute, Brisbane, Australia				
10:00 - 10:25	Morning tea				
10:30 - 11:00	Symposium 3: Methods & Technology Chairs: Prof Natalia Nieto, University of Chicago, USA Prof Soichi Kojima, RIKEN Center for Integrative Medical Sciences, Japan				
10:30 - 11:00 Animal models to study liver diseases – #121 Assoc Prof Javier Cubero, University Complutense Madrid, Spain					
11:00 - 12:30	Oral presentations 3 Chairs: Prof Natalia Nieto, University of Chicago, USA Prof Soichi Kojima, RIKEN Center for Integrative Medical Sciences, Japan				
11:00 - 11:15	Targeted delivery to the liver sinusoidal endothelium using silver sulfide quantum dots – #122 Dr Nicholas Hunt, ANZAC Research Institute, The University of Sydney, Australia				
11:15 - 11:30	Scavenger function of liver sinusoidal endothelial cells in a transgenic mouse model of liver fibrosis is reduced – #123 Prof Karen Kristine Sørensen, UIT, The Arctic University of Norway, Norway				
11:30 - 11:45	Liver stiffness as a target factor for advanced chronic liver disease: Unstretching the nucleus – #124 Mr Martí Ortega-Ribera, IDIBAPS, Spain				
11:45 - 12:00	Matrix stiffness regulate Liver Sinusoidal Endothelial Cells (LSECs) function: Importance for Liver Fibrosis Progression – #125 Assoc Prof Srivatsan Kidambi, University Of Nebraska-Lincoln, USA				
12:00 - 12:15	Polymeric micelles as a drug delivery system targeting liver sinusoidal endothelial cells in chronic liver disease: Validation with simvastatin encapsulation – #126 Dr Diana Hide, Vall D'hebrón Research Institute, Spain				
12:15 - 12:30	The stabilins are the primary scavenger receptors for Phosphorothioate Antisense Oligonucle- otides in Liver Sinusoidal Endothelial Cells – #127 Assoc Prof Edward Harris, University of Nebraska, USA				
12:30 - 12:55	Lunch				
13:00 - 17:00	Off-site excursions				
	Coaches will depart from the The University of Sydney, Clock Tower, Main Quad Coaches will return delegates to The Rendezvous Hotel and Rydges Camperdown at the conclusion of the excursions				

19:00 - 22:00 **Symposium dinner**

Sydney Harbour Cruise, boarding from King St Wharf at 18:45. Departing at 19:00.

At **18:00** coaches will depart The Rendezvous Hotel and proceed to Rydges Camperdown to transfer guests to the wharf for the dinner cruise. Coaches will return guests to these hotels at the end of the evening.

Saturday 7 Sep	Saturday 7 September 2019			
Venue: Charles Perkins Centre, Level 6 seminar room				
08:45 - 12:30	Registration desk open			
09:15 - 10:00	Tutorial talk Chair: Dr Changpeng Zhu, Changzheng Hospital, Second Military Medical University, China The liver in health and disease: What the intravital microscope reveals – #128 Prof Antony M Wheatley, National University of Ireland Galway, Ireland			
10:00 - 10:25	:00 - 10:25 Morning tea			
10:30 - 12:00 Oral presentations 4 Chairs: Prof Norifumi Kawada, Osaka City University, Japan Prof Natalie Torok, Stanford University, USA				
10:30 - 10:45 Exacerbation of alcoholic liver injury in obese KK-Ay mice involves alteration in small intestinal microbiota signature – #129 Prof Kenichi Ikejima, Juntendo University Graduate School of Medicine, Japan				
10:45 - 11:00	Early hepatic genes expression and signalling pathways in liver regeneration after partial hepatectomy in germ-free mice – #130 Ms Nur Fatin Aqilah Raman, Universiti Sains Islam Malaysia, Malaysia			
11:00 - 11:15	Implication for transition from proteolytic to integrin-associated TGF-β activation during liver fibrosis – #131 Prof Soichi Kojima, RIKEN Center for Integrative Medical Sciences, Japan			
11:15 - 11:30	Dietary imbalance of branched amino acids impact fenestrations in liver sinusoidal endothelial cells – #132 Miss Sun Woo Sophie Kang, Anzac Research Institute, Australia			
11:30 - 11:45	Cytoglobin suppresses liver fibrosis and cancer in mice by regulating oxidative stress – #133 Dr Le Thi Thanh Thuy, Osaka City University, Japan			
11:45 - 12:00 Transcriptomic signature of LSECs during the progression of cirrhosis: From inflammation cancer development – #134 Dr Anabel Fernández Iglesias, IDIBAPS, Spain				
12:00 - 12:30	Awards and close Prof Victoria Cogger, The University of Sydney, Australia (ISHSR President and Meeting Chair) Announcement of the 2021 meeting Dr Chang-Peng Zhu, Changzheng Hospital, Second Military Medical University, China			
12:30	Lunch			

Poster program Thursday 5 September 2019, 12:45 - 13:25

Norway

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#01	Effect of glucocorticoids on liver sinusoidal endothelial cells in vitro Mr Sabin Bhandari, The Arctic University of Norway, Norway	#09	Autofluorescence in freshly isolated adult human liver sinusoidal cells Anett Kristin Larsen, The Arctic University of Norway, Norway	
#02	Evaluation of surrogate serum biomarker of Sox9-expressing HCC Dr Kristy Chan, The University of Hong Kong, Hong Kong	#10	Alteration of liver ultrastructure and metabolic homeostasis in rat model of insulin resistance Ms Mashani Mohamad, Universiti Teknologi MARA,	
#03	Genetic deletion of Keap1 in hepatocytes triggers hepatitis in an Nrf2 dependant-manner in experimental toxic liver injury model Dr Francisco Javier Cubero Palero, Complutense University, Spain		Malaysia Optimisation of the isolation and culture of human liver sinusoidal endothelium from normal and cirrhotic livers Miss Pantelitsa Papakyriacou, University of Birmingham, Ut	
#04	Immune transcriptional profile of LSECs in response to bacterial challenge in an experimental model of cirrhosis Prof Rubén Francés, Universidad Miguel Hernández, Spain	#12	Controling uptake of nanocrystals in liver cells Prof Bård Smedsrød, University of Tromsø, Norway	
		#13	How do fenestrations work? Ms Karolina Szafranska, University of Tromsø, Norway	
#05	Is the "Liver Sieve Concept" in atherosclerosis also implicated in NASH, Metabolic Syndrome, Diabetes and Cancer? Prof Robin Fraser, University of Otago, New Zealand		Stellate cells initiate the activation by the loss of adherens junction with hepatocytes Dr Hayato Urushima, Osaka City University, Japan	
#06	Differential toxicity of oleate and palmitate in liver sinusoidal endothelial and vascular endothelial cells in vitro		Utility of STRIATIN as a novel prognostic marker in decompensated cirrhosis Dr Balasubramaniyan Vairappan, Jipmer, India	
	Miss Yana Geng, University Medical Center Groningen, Netherlands	#16	Cathepsin L inhibitor accelerates liver regeneration in pro-fibrotic liver	
#07	Could an anti-fibrotic adenosine derivative regulate Wnt/beta-catenin pathway in liver cells in vitro? Miss Nuria Guerrero-Celis, Instituto De Fisiología Celular, UNAM, Mexico		Assoc Prof Shunhei Yamashina, Juntendo University Schoo of Medicine, Japan	
		#17	3D reconstruction of liver micro-architecture sho distinct patterns of sinusoid and bile canaliculi network modelling post partial hepatectomy	
#08	A protocol for in vitro toxicity studies in liver sinusoidal endothelial cell Mrs Ingelin Kyrrestad, The Arctic University of Tromsø,		Prof Rajanikanth Vadigepalli, Thomas Jefferson University, USA	