5th Australian Cancer and Metabolism Meeting - Agenda

	Day 1: Wednesday 15 th May 2024		
11.00am	Registration Desk is open		
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1.00 - 1:10pm	Welcome Address from Meeting Conveners		
1.10 2.20	Prof Lisa Butler and A/Prof Dan Thomas		
1.10 - 2.20pm	Session 1: Lipid metabolism in cancer microenvironment		
	Chair: Prof Lisa Butler, SAIGENCI- The University of Adelaide		
1.10 - 1.50pm	Invited International Speaker		
	Professor Johannes Swinnen - Katholieke Universiteit Leuven, Belgium		
	Spatial multi-omics as a tool to identify exploitable lipid metabolic vulnerabilities in cancer		
1.50 - 2.05pm	Monika Kutyna		
	Mesenchymal stromal cells from patients with therapy-related myeloid neoplasms exhibit a		
	unique metabolic phenotype with defective adipocyte differentiation.		
2.05 - 2.20pm	Jacob Truong		
	Identifying Prognostic Lipid Signatures Associated with Disease Relapse After Surgical		
	Intervention in Patients with Localised Prostate Cancer by Mass Spectrometry Imaging.		
2.20 - 3.00pm	Afternoon Tea		
3.00 - 4.05pm	Session 2: Metabolic reprogramming and therapy resistance		
	Chair: A/Prof Andrew Hoy, Charles Perkins Centre, University of Sydney		
3.00 - 3.25pm	Invited National Speaker		
	A/Prof Kristin Brown- Peter MacCallum Cancer Centre, Vic		
	Metabolic regulation of tumour immune evasion.		
3.25 - 3.50pm	Invited National Speaker		
	<u>Prof Lenka Munoz</u> – The University of Sydney, NSW		
	Epigenetic and metabolic adaptations in drug-tolerant persister cells		
3.50 - 4.05pm	Raj Kumar Shrestha		
	ACSM1 and ACSM3 regulate prostate cancer fatty acid metabolism to promote tumour		
	growth and constrain ferroptosis.		
4.05 - 5.00pm	Flash Talks from Poster Presenters (5 mins per presenter)		
	Chair: A/Prof Dan Thomas, SAHMRI, SA Health and The University of Adelaide		
	Flash Talk 1: Jenny Wang		
	Investigating the effect of physiological culture on the metabolism of estrogen receptor-		
	positive breast cancer cells (Poster: FP 3)		
	Flash Talk 2: Alana White		
	Exploring ceramide metabolism as an avenue for novel therapeutic approaches in chronic		
	lymphocytic leukaemia. (Poster: FP 4)		
	Flash Talk 3: Mohammad Ismail		
	Exploiting a potential synthetic lethal interaction between SPOP mutation and glutathione		
	metabolism pathway as a targetable metabolic dependency in prostate cancer (Poster: FP 5)		
	Flash Talk 4: Jamshid Motalebzadeh		
	Interferon gamma stimulates upregulation of tryptophan flux to kynurenine in triple-negative		
	breast cancer through IDO1 enzyme: implications for immunotherapy (Poster: FP 1)		
	Flash Talk 5: Ruhi Polara		
	CD47 regulates cellular and metabolic plasticity in glioblastoma (Poster: FP 6)		
	Flash Talk 6: Neil Portman		
	A bedside-to-bench analysis of metastatic castrate-resistant prostate cancer patient plasma		
	establishes a link between a lipid biomarker and cancer cell viability. (Poster: FP7)		
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5.00 - 7.00pm	Poster Sessions and Welcome Reception
	cells towards metabolic inhibition (Poster: FP 9)
	IDH1 mutation blocks cell differentiation and increases susceptibility of cholangiocarcinoma
	Flash Talk 8: Tasnova Tasnim Nova
	squamous cell carcinoma. (Poster: FP 8)
	Exploring novel biomarkers in MRN complex and inflammatory CCL genes in head and neck
	Flash Talk 7: Michelle Santella

Day 2: Thursday 16th	May 2024
9.00 - 10.25am	Session 3: Metabolic targets in cancer
	Chair: Dr Nirmal Robinson, University of South Australia, SA
9.00 - 9.25am	Invited National Speaker
	<u>Prof Lisa Horvath</u> - Chris O'Brien Lifehouse, NSW
	The role of lipid metabolism in metastatic prostate cancer – lab to clinic
9.25 - 9.40am	Charles Bidgood
	Targeting Succinate-Dependent Cancers via the Development of Novel Mitochondrial-
	Targeted Therapeutics
9.40 - 9.55am	Bridget Mooney
	AMP-Activated Protein Kinase (AMPK) is required to promote cell division following salt
	stress.
9.55 - 10.10am	Kanu Wahi
	Macropinocytosis mediates resistance to loss of glutamine transport in triple-negative breast
	cancer.
10.10 - 10.25am	Zeyad Nassar
	Utilising Activated Enzymes And Intermediates Of Fatty Acid Oxidation As Therapeutic And
	Prognostic Markers In Prostate Cancer
10.25 - 11.00am	Morning Tea
11.00am - 12.30pm	Session 4: Metabolic vulnerabilities of blood cancers
	Chair: A/Prof Dan Thomas, SAHMRI, SA Health and The University of Adelaide
11.00 - 11.25am	Invited National Speaker
	A/Prof Lev Kats - Peter MacCallum Cancer Centre, Vic
	Heme biosynthesis is a therapeutic vulnerability in leukaemia
11.25 - 11.50am	Invited National Speaker
	A/Prof Devendra Hiwase – SA Health and SAHMRI, SA
	Metabolic vulnerabilities of myeloid neoplasm and autoimmune disease
11.50am - 12.05pm	Ilaria Stefania Pagani
	Tyrosine kinase inhibitor-responsive chronic myeloid leukaemia is associated with reduced
	OXPHOS capacity and mtDNA mutations likely contribute to this.
12.05 - 12.30pm	Invited National Speaker
	<u>Dr Lauren Thurgood</u> - Flinders University, SA
	Hold the sugar, pass the fat: Exploiting lipid dependencies in chronic lymphocytic leukemia
	for disease monitoring and therapeutics
12.30 - 1.30pm	Lunch
1.30 - 2.50pm	Session 5: Epigenetics, gene regulation and metabolism in cancer
	Chair: A/Prof Luke Selth - Flinders University, SA
1.30 - 2.10pm	Invited International Speaker
	<u>Dr David Labbe</u> - McGill University, Montréal, Canada

2.10 - 2.25pm	Joshua Hodgson
	Resistance to CDK4/6 inhibition in prostate cancer is associated with metabolic re-writing to
	protect from ferroptosis.
2.25 - 2.50pm	Invited National Speaker
	<u>Dr Andrew Cox</u> - Peter MacCallum Cancer Centre, Vic
	Exploring cancer metabolism through the lens of developmental biology
2.50 - 3.20pm	Afternoon Tea
3.20 - 4.40pm	Session 6: Systemic Metabolic changes and tumour biology
	Chair: Prof Lisa Horvath - Chris O'Brien Lifehouse, NSW
3.20 - 3.45pm	Invited National Speaker
	Prof Matthew Watt -The University of Melbourne, Vic
	Targeting lipid metabolism for prostate cancer therapy
3.45 - 4.00pm	Hannah Prsa
	Macronutrient intake has differential effects on primary and metastatic breast cancer
	progression that is linked to altered immunometabolism.
4.00 - 4.15pm	Aparna Rao
	Understanding the effect of high-fat diet and targeted therapies on tumour metabolism in
	BRAF-mutant melanoma.
4.15 - 4.40pm	Invited National Speaker
	Dr Katherine Worgtrakul-Kish - Macquarie University, NSW
	Can we find ascites glycosylation markers to guide treatment choice for ovarian cancer?
4.40 - 5.10pm	SPECIAL PANEL DISCUSSION
	The Valley of Death: How to gain clinical traction for metabolic target discovery.
	Lisa Horvath
	Aparna Rao
	Dan Thomas (commercialisation obstacles)
	Three 5 min presentations followed by 15 min of Q&A
5.10 - 6.30pm	Break
6.30 - 8.30pm	Meeting Dinner and Wine Tasting Event
	National Wine Centre of Australia, North Tce, Adelaide (City East)

Day 3: Friday 17 th May 2024	
9.00 - 10.45am	Session 7: Reprogramming metabolite flux in cancer
	Prof Nigel Turner, Victor Chang Cardiac Research Institute
9.00 - 9.40am	Invited International Speaker - Virtual
	Prof Marcia Haigis -Harvard Medical School, USA
	The role of metabolites in Cancer during aging.
9.40 - 10.20am	Invited National Speaker - Virtual
	<u>Christian Metallo</u> - Salk Institute, USA
	Title: TBA
10.20 - 10.45am	Invited National Speaker
	Prof Pilar Blancafort -University of Western Australia, WA
	Reprogramming stress-induced cellular metabolism to improve therapy responses in ovarian
	cancer
10.45 - 11.15am	Morning Tea
11.15am - 12.45pm	Session 8: Interplay between Tumour Immunology and Metabolism
	Chair: Prof Renea Taylor, Monash University, Vic

11.15 - 11.55am	Invited International Speaker
	Prof Celeste Simon - The University of Pennsylvania, USA
	Can Tumor Metabolism Be Targeted for Effective New Therapies.
11.55am - 12.10pm	Zaklina Kovacevic
	The metastasis suppressor NDRG1 significantly alters pancreatic cancer cell metabolic cross-
	talk with fibroblasts and immune cells in the tumour microenvironment.
12.10am - 12.35pm	Invited National Speaker
	<u>Dr Nirmal Robinson</u> - University of South Australia, SA
	Unraveling Glioblastoma's Metabolic Vulnerabilities: Insights from CD47 "Don't Eat Me"
	Signaling.
12.35 - 12.45pm	Prizes and Meeting Wrap Up
	Co Conveners: Prof Lisa Butler and A/Prof Dan Thomas
12.45 - 1.30pm	Event Closing Light Refreshment