



# Research Pathways Conference

## 2023

‘Resilience, Innovation and Sustainable Futures’

# Conference Program

## DAY ONE

Wednesday 22 November

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### Registration

8:00am - 8:45am | Oorala (E022)

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### Conference Opening

8:45am - 9:00am | Oorala (E022)

**Welcome to Country:** Uncle Steve

**Opening:** Professor Jane Stadler

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### Keynote Address

9:00am - 10:00am | Oorala (E022)

**Associate Professor Sadie Heckenberg**

**Title:** Weaving Yindyamarra into research practice

**Bio:** Associate Professor Sadie Heckenberg is the Academic Director Aboriginal Engagement at the University of Tasmania. Sadie is the President of the National Aboriginal and Torres Strait Islander Higher Education Consortium (NATSIHEC), sits on the Universities Accord Ministerial Reference Group and the Australian Research Council's College of Experts. A Wiradjuri scholar, Sadie's research focuses on Indigenous methodologies, Cultural Safety, protecting Indigenous spoken knowledge and ethical research frameworks.



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### Morning Tea

10:00am - 10:30am | Oorala (E022)

# Session One

10:30am - 12:00pm

## SABL

Oorala (E022)

**Theme:** Genetics

Chair:

Dr Sara de las Heras-Saldana

**Title:** Potential for using Genomic Information to Define Genetic Grouping in Genetic Evaluation of Sheep  
**Presenter: Shweta Sahoo**

**Title:** Non-canonical Domain Integration Shaped NBS-encoding Genes for a Potential Novel Class of Resistance Genes in *Myrtaceae*

**Presenter: Tamene Tolessa**

**Title:** Investigation of Genotype Imputation Accuracy in Single-Breed, Cross-Breed and Multi-Breed Australian Beef Populations  
**Presenter: Yaser Fazel**

## HASSE

Arts Building (E011), A2

**Theme:** Education

Chair: Dr Jo Bird

**Title:** Examining Australian Students' Achievement in Standardised Assessments from 1995 to 2022  
**Presenter: Dr Sally Larsen**

**Title:** Exploring Preschool Teachers' Roles in Children's Play in the Kingdom of Saudi Arabia  
**Presenter: Asma Hulayyil Aljohani**

**Title:** Australian Early Childhood Teachers' Perspectives and Experiences in Supporting Children who are Trans or Gender Diverse  
**Presenter: Ariel Liddicut**

## Medicine and Health

Arts Building (E011), A3

**Theme:** Healthcare Perspectives and Partnerships

Chair: Dr Onoriode Coast

**Title:** When Research Meets Resistance: Making Allies within Industry Partner Organisations  
**Presenter: Bess Jackson**

**Title:** Predictors of Variation in Antibiotic Prescribing among Primary Health Care Physicians: A Systematic Review  
**Presenter: Gashaw Enbiyale Kasse**

**Title:** What Leads to Breakthrough Insights and how can they be Generated more Reliably?  
**Presenter: Paul Hawkins**

## Special Session A: 12:00pm - 12:30pm

Oorala Centre (E022)

### Australian Centre for Agriculture and Law

Professor Paul Martin and Dr Andrew Lawson

*"How to Efficiently Design Applied Policy and Multidisciplinary Research: 20 Years of Experience"*

Arts Building (E011), A2

### UNE Life – Clubs and Societies

Ben Bible, General Manager, UNE Life

Arts Building (E011), A3

### Counselling and Psychological Services (CAPS) Gwen Shumack

**Independent Student Advocate** Lara Jennings (via Zoom)

## Lunch

12:30pm - 1:30pm | Oorala (E022)

# HDR Disaster Management Panel Discussion

1:30pm - 2:30pm | Oorala (E022)

Chair: Dr Jo Bird

**Carolyn Sonter** - PhD in School of Environment and Rural Science

**Jon Clay** - MPhil Graduate in School of Environment and Rural Science

**Dr Prashneel R. Goundar** - Early Career Researcher, School of Humanities, Arts, Social Sciences

**Shaharior Razu** - PhD in School of Health

**Alycia Messing** - PhD in School of Psychology

**Dr Sally Larsen** - Early Career Researcher in School of Education

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## Session Two

2:30pm - 4:00pm

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### SABL

Oorala (E022)

**Theme:** Turtles

Chair: Dr Alfonsina  
Arriaga-Jimenez

**Title:** Basking Platforms  
and Sonic Deterrent  
Devices: Testing their  
Efficacy in Freshwater Turtle  
Conservation Management  
**Presenter:** Jessica York

**Title:** Ninja Turtles: High  
Mobility and Successful  
Passage Through Common  
Barriers to Movement in a  
Semi-terrestrial Freshwater  
Turtle  
**Presenter:** James Dowling

**Title:** Innovative Strategies  
for Protecting Freshwater  
Turtle Nests from Fox  
Predation  
**Presenter:** Lou Streeting

### HASSE

Arts Building (E011), A2

**Theme:** History

Chair: A/Prof Francois Soyer

**Title:** The Southern  
Republican: The Motivations  
and Activities of an IRA  
Volunteer in the Republic of  
Ireland, 1975-2010  
**Presenter:** Kevin McQuillan

**Title:** Offences by Australian  
Officers in the First World  
War: From Drunkenness to  
Manslaughter  
**Presenter:** Des Lambley

**Title:** Horsewhipping,  
Honour Committees, and  
High Courts: Nineteenth  
Century British Gentlemen's  
Changing Approaches to  
Defending Reputational  
Honour  
**Presenter:** Denise Ganly

### Medicine and Health

Arts Building (E011), A3

**Theme:** Opinion, Impact and  
Prevention

Chair: A/Prof Deborah  
Apthorp

**Title:** Social Media Use and  
Opinion Strength: Does  
Opinion Type Matter?  
**Presenter:** Melissa Cox

**Title:** Novel ways to Assess  
the Impact of Parkinson's  
Disease in Regional Areas  
**Presenter:** Alycia Messing

**Title:** Do we make  
Assumptions about  
People Working in Suicide  
Prevention?  
**Presenter:** Alexandra Potter

# Comfort Break | 4:00pm - 4:10pm

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## Session Three

4:10pm - 5:40pm

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### SABL

Oorala (E022)

**Theme:** Wildlife, Habitat, and Change

Chair: Dr Eric Nordberg

**Title:** Public Attitude Towards Snakes and Frogs in Bhutan

**Presenter:** Jigme Tshelthrim Wangyal

**Title:** Molecular ecology of New England Tablelands Bioregion Endemic Outcrop Shrub Populations

**Presenter:** Peter Pemberton

**Title:** Creating Wildlife Habitat using Artificial Structures: A Review of their Efficacy and Potential use in Solar Farms

**Presenter:** Remo Boscarino-Gaetano

### HASSE

Arts Building (E011), A2

**Theme:** Peace, Philosophy and Research Design

Chair: Dr Julia Petzl-Berney

**Title:** Building Peace Amidst Violent Conflict: Women-to-Women Diplomacy, an Innovative Peacebuilding Approach in Myanmar

**Presenter:** Goodwin Yidana

**Title:** “Show Me the Money”: The Challenge of Funding a Holistic and Resilient Future Society

**Presenter:** Liza Tolan

**Title:** Researcher Positionality: Ways to Include it in a Qualitative Research Design

**Presenter:** Dr Prashneel Ravisan Goundar

### Medicine and Health

Arts Building (E011), A3

**Theme:** Vulnerabilities and Strengths

Chair: Dr Rikki Jones

**Title:** Health Vulnerabilities of the Female Sex Workers: A Qualitative Investigation from the South-western Region of Bangladesh

**Presenter:** Shaharior Rahman Razu

**Title:** Seeking Hope: Understanding Adjustment Disorder and the Mental Health needs of Young Australians who have been Exposed to Drought, Bushfire, and Flood

**Presenter:** Natasha Searles

**Title:** From Struggle to Strength: How Peer Support can be a Key to Community Resilience During a Crisis

**Presenter:** Darren Wagner

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## Conference Reception

5:45 - 7:30pm

Booloominbah

# DAY TWO

Thursday 23 November

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## Registration

8:30am - 9:00am | Oorala (E022)

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## Keynote Address

9:00am - 10:00am | Oorala (E022)

**Professor Oliver Knox**

**Title:** "Porcos, lupus et futuros"

**Bio:** Oliver has not always been an academic. After getting an honours degree in genetics he became a shop fitter, then a technician, then a sales person, then a PhD student, then a postdoc, then a researcher and finally an academic. His career, such as it is, has had ups and downs, has included two international moves and has included lots of mistakes from which he has learnt and delivered many achievements. So what might we learn from a pig and a wolf about the future?



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## Morning Tea

10:00am - 10:30am | Oorala (E022)

# Session Four

10:30am - 12:00pm

## SABL

Ooralta (E022)

**Theme:** Soil, Pasture, Beetles

Chair: A/Prof Paul  
Kristiansen

**Title:** Density Affects Brood  
Ball Production in Small  
Monospecies Groups of  
Dung Beetles

**Presenter:** Zinat Jahan  
Chowdhury

**Title:** Investigating  
the Impact of Nutrient  
Stoichiometry on Carbon  
Sequestration in Dispersive  
Subsoils

**Presenter:** Andrew Regan

**Title:** Building Resilient  
Pasture Systems: Effects of  
Paddock Tree Microclimate  
on Pasture Physiology and  
Biomass Production

**Presenter:** Abigail  
Addo-Danso

## HASSE

Arts Building (E011), A2

**Theme:** Life Writing/Writing  
Life

Chair: Dr Ariella Van Luyn

**Title:** Cooking With the  
Word of Wisdom

**Presenter:** Sherrie Gavin

**Title:** Innovative Biography:  
Writing a Life from Multiple  
Perspectives

**Presenter:** Elizabeth  
Chappell

**Title:** Campus as a Site of  
(Trans)formation: Rhetorics  
of place and Resilience in  
Australian Campus Novels  
set in Sydney

**Presenter:** Chloé Steward

## SABL

Arts Building (E011), A3

**Theme:** Sustainability,  
Innovation and Nature

Chair: Dr Andrew Lawson

**Title:** Supply Chain Finance:  
A Collaborative Approach  
to SMEs Sustainability in  
Emerging Economies - A Case  
of Ghana

**Presenter:** Joseph Quartey

**Title:** Resilience and  
Innovation in NSW  
Regional Founders seeking  
Entrepreneurial Finance

**Presenter:** Zia Knorles

**Title:** Phylogenomic Analysis  
of the Generic Limits of  
*Chrysocephalum*

**Presenter:** Shelley Rowntree

## Special Session B: 12:00pm - 12:30pm

Ooralta Centre (E022)

### SMART Regional Incubator

Ross Murray

*"Mastering the Art of Investable  
Research and Building Credibility  
with Stakeholders"*

Arts Building (E011), A2

### Dixson Library

Ben Gooley, Geoff Hart and  
Gilbert Meyns

*"Library Support for Publishing:  
Finding and Selecting Journals,  
and Publishing Research Data"*

Arts Building (E011), A3

### New England Award

Jess Christian

### International Services

Alex Cook, Community  
Engagement Coordinator



# Lunch

12:30pm - 1:30pm | Oorala (EO22)

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## Session Five

1:30am - 3:00pm

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### SABL

Oorala (EO22)

**Theme:** Adaptation and Change

Chair: Dr Katie Polain

**Title:** Liver Transcriptomic Profile Responses to Dietary Protein and Energy Levels in Broiler Chickens

**Presenter: Collins Amponsah Asiamah**

**Title:** Why do Warm Nights Reduce Wheat Yield?

**Presenter: Pratima Rana Shahi**

### HASSE

Arts Building (EO11), A2

**Theme:** Education

Chair: Mr Jon Clay

**Title:** English Speaking Anxiety among English as a Second Language Learners at State Universities in Sri Lanka

**Presenter: Iromi Weerakoon**

**Title:** An Exploration of Teacher Qualities for a Resilient and Sustainable Education Workforce

**Presenter: Sarah Oluk**

**Title:** Gross National Happiness (GNH) and GNH Values as Understood by Principals, Teachers and Students of Two Bhutanese Case Study Schools

**Presenter: Kaka**

### Medicine and Health

Arts Building (EO11), A3

**Theme:** Science and Technology

Chair: Dr Vanu Gulati

**Title:** 3D Printing for Advanced Drug Delivery Systems: A New Approach

**Presenter: Hanny Chua**

**Title:** Anti-microbial Efficacy of Hericium Erinaceus Fruiting Body Extracts on the Bacterial Triggers of Multiple Sclerosis

**Presenter: Jonathan Rosenzweig**

**Title:** Defining Resilience in Sheep using Fibre Diameter Variation of Wool

**Presenter: Erin Smith**

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## Afternoon Tea

3:00 - 3:30pm | Oorala (EO22)



# Session Six

3:30pm - 5:00pm

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## SABL

Oorala (E022)

**Theme:** Livestock Breeding

Chair: Dr Rea Alexandri

**Title:** Accounting for Dominance Effects in Genomic Selection in a Nucleus Pig Breeding Program

**Presenter:** Sharif Islam

**Title:** GWAS-based Pathway Analysis for Birth Weight in Angus Cattle

**Presenter:** Nantapong Kamprasert

**Title:** Investigation of Population Structure and Genetic Diversity of Four Australian Beef Cattle Breeds

**Presenter:** Zeinab Manzari

## HASSE

Arts Building (E011), A2

**Theme:** Authors and Attitudes

Chair: Prof Jane Stadler

**Title:** Saudi Registered Nurses' Perspectives, Attitudes, and Experiences Related to e-learning

**Presenter:** Reem Hamdan Z Alfaleh

**Title:** Where Are We Going, Where Have We Been?

The Supernatural Child in Stephen King's *The Shining*

**Presenter:** Lauren Mirco

**Title:** Sudden Revelations and Inconclusive Experiences: Apocalyptic Resonances in Conrad

**Presenter:** Samuel Commerford

## SABL

Arts Building (E011), A3

**Theme:** Three chickpeas in a pod

Chair: Dr Katie Polain

**Title:** Comparative Analysis of the Root Weight and Height of *Cicer echinospermum* Based Recombinant Inbred Lines to their Parents and Chickpea (*Cicer arietinum*) Varieties

**Presenter:** Goodness Adebo

**Title:** Exploring Genetic Diversity for Genetic Improvement Opportunities in Chickpea Breeding Australia (CBA) Program

**Presenter:** Richard Olayiwola

**Title:** Deriving Economic Weights for Selection in Plant Breeding - a Systematic Review

**Presenter:** Abdul Manan Khan

# Public Lecture

## Zoom and Oorala (E022)

Light refreshments 5:00pm - 5:30pm

Presentation 5:30pm - 6:30pm

**Dr Pema Gyamtsho, Director General,  
International Centre for Integrated Mountain Development, Nepal**

**Title:** The Hindu Kush Himalaya – A Region under Threat from the Triple Planetary Crises and in Need of Urgent Research Attention.



Pema Gyamtsho is the Director General of ICIMOD, the International Centre for Integrated Mountain Development based in Kathmandu, Nepal. Prior to joining ICIMOD in 2020, he served the Royal Government of Bhutan for over three decades working at the science-policy-practice interface in natural resources management and planning; rural development; agriculture; forestry; livestock and food production; rangeland management; livestock

development; participatory approaches; research and extension institutional building; climate change and environmental protection; biodiversity conservation; and organic farming.

Dr. Gyamtsho was the Minister of Agriculture and Forests with additional responsibility as Minister-in-Charge of National Environment Commission in Bhutan's first democratically elected government from 2008-2013. Subsequently, he served as Leader of Opposition in Bhutan's parliament from 2013 to 2020. In the above positions, Dr. Gyamtsho played an instrumental role in leading the formulation and enactment of many laws related to the natural resources and environmental sectors as well as overseeing the country's successful rural development programme.

Dr. Gyamtsho holds a PhD in Natural Science from the Swiss Federal Institute of Technology in Zurich, Switzerland and a M.Agr.Sc.(Hon) from Lincoln University in Christchurch, New Zealand.

## Thank you to our sponsors and supporters

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## **Acknowledgement of Country**

The University of New England respects and acknowledges that its people, courses and facilities are built on land, and surrounded by a sense of belonging, both ancient and contemporary, of the world's oldest living culture. In doing so, UNE values and respects Indigenous knowledge systems as a vital part of the knowledge capital of Australia.

We recognise the strength, resilience and capacity of the Aboriginal community and pay our respects to the Elders past, present and future.