



3rd Australian Biosecurity Symposium

Innovative. Immersive. Inclusive.

Program

**27–29 August 2024
Sea World Gold Coast, QLD**

#BioSym2024

animalhealth
AUSTRALIA

invasive
species council

CENTRE FOR
INVASIVE SPECIES SOLUTIONS

Plant Health
AUSTRALIA



Australian Government
**Department of Agriculture,
Fisheries and Forestry**

The Department of Agriculture, Fisheries and Forestry is strengthening our national biosecurity system to protect Australia's people, environment and economy from the pest and disease threats of today and tomorrow. We are helping the agriculture, fisheries and forestry sector grow towards \$100 billion by 2030 while contributing to a healthy, sustainable, low emissions environment.



SCAN for
more info



Photographs: © Joshua Smith, Kerry Trapnell and Department of Agriculture, Fisheries and Forestry

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For enquiries:

Erika Edwards
0498 435 169 | biosecurity@conlog.com.au

#BioSym2024

Hosted by



Animal Health Australia (AHA) is a not-for-profit public company that facilitates innovative partnerships between governments, major livestock industries and other stakeholders to protect animal health and the sustainability of Australia's livestock industry.



Invasive Species Council (ISC) was formed in 2002 to keep the Australian environment safe from weeds, feral animals and other harmful invaders and focuses on prevention and early action.



Centre for Invasive Species Solutions (CISS) is a national collaborative research, development and extension organisation, formed to tackle the ongoing threat from invasive species.



Plant Health Australia (PHA) is the national coordinator of the government-industry partnership for plant biosecurity in Australia. PHA works to minimise pest impacts on Australia, enhance market access and contribute to industry and community sustainability.

Welcome

We are proud to welcome you to the 3rd *Australian Biosecurity Symposium*.

This year's theme is 'Innovative. Immersive. Inclusive'.

We encourage you to open your mind to the showcase of *innovative* biosecurity practices from across Australia and around the globe.

We expect you to *immerse* yourself in this unique gathering, where we learn from each other and share our experiences across our biosecurity sectors.

We challenge you to be *inclusive*, to engage with the community, with industry and business and with governments, to create a stronger, collaborative biosecurity system.

Our journey as the Biosecurity Collective began in 2019 with the 1st Australian Biosecurity Symposium, conceived to bring the diverse biosecurity sectors together. At the 2nd Australian Biosecurity Symposium in 2022, we launched the Decade of Biosecurity—a collaborative venture originating from the outcomes of the inaugural Australian Biosecurity Symposium.

Later that year we celebrated Australia's first National Biosecurity Strategy, signifying the completion of the first phase in the Biosecurity Collective's comprehensive five-point plan.

Together, we continue to bring about significant change in strengthening our biosecurity framework.

Our journey is far from over. Australia's biosecurity environment is constantly evolving, bringing forth new and unparalleled challenges.

We hope that this Symposium will be the inspiration that helps us create more action, to build an even better biosecurity system to respond to the challenges of 2030 and safeguard our economy, our environment and our lifestyles.

We pay tribute to former Animal Health Australia CEO, Kathleen Plowman, whose drive and passion was critical to delivering the first two Symposiums.

On behalf of the Biosecurity Collective — Animal Health Australia, Invasive Species Solutions, Centre for Invasive Species Solutions and Plant Health Australia — we thank you for your participation at the *Australian Biosecurity Symposium*.



Samantha Allan

CEO, AHA



Andrew Cox

CEO, ISC



Andreas Glanznig

CEO, CISS



Sarah Corcoran

CEO, PHA

Information

Event Support

For assistance during the Symposium please visit the Registration Desk in the Conference Centre Foyer or seek out one of the friendly Event Support staff at the Registration Desk.

Alternatively, contact:

- Erika Edwards
0498 435 169
Email: biosecurity@conlog.com.au

Venue

Sea World Resort Conference Centre Gold Coast

Sea World Drive, Main Beach
Gold Coast, Queensland 4217

P: 1300 139 677

W: seaworld.com.au

Registration

Please visit the Registration Desk in the Conference Centre Foyer to collect your registration pass during the following times:

- Tuesday 27 Aug: 5.15-7.30pm (At the Boat Shed)
- Wednesday 28 Aug: From 7.30am
- Thursday 29 Aug: From 7.30am

Lanyard

Please wear your lanyard at all times to ensure your access to sessions and admittance to the Symposium Dinner (if purchased).

Full program

The Symposium Proceedings will be available on the Symposium Website at commencement of program.

Themes

The presentations and posters align with our three major themes. Please refer to the key below to see which theme each presentation aligns to:

- Innovation
- Immersion
- Inclusivity

Presentation types

Oral: Presenters will have 10 or 15 minutes (including questions) to discuss aims and conclusions of their work.

Speed talk: A unique format with presenters discussing their work in 7 minutes (this format does not allow for questions).

Panel discussion: A diverse panel of presenters discussing an issue related to the Symposium theme for 60 minutes (including questions).

Posters

Posters will be available to view in the Trade Display area in the Foyer. Posters will be eligible to win the 'People's Choice' award. Vote for your favourite poster by using the voting cards at the Foyer. The winner will be announced in the Symposium summary.

Social events

Tues 27 Aug

Welcome reception

5.30-7.30pm

The Boat Shed, Sea World Resort

Sponsored by



Wed 28 Aug

Symposium Dinner

6:30-10:00pm

Atlantis, Sea World Resort (to start) and The Plaza, Sea World Resort for Dinner.

Sponsored by



Follow the action

Join the conversation during the Symposium by using #BioSym2024 across all social media.

Catering breaks

All breaks will be held in the Trade Display area in Conference Room 3 and Foyer.

Session seating and movement within sessions

Please ensure you are seated five minutes before the allocated start time for each session. If you are moving between sessions please aim to move during question time to allow time to be seated during the transition periods.

Transport

Taxis can be booked at Sea World's Reception. Uber options are also available.

Photography

By registering, participants acknowledge and consent that during their attendance at the Symposium their image or voice may be recorded via video, photograph or by any other means, which may be distributed or published at the discretion of the organisers of the Australian Biosecurity Symposium. If you do not wish to be recorded, you are required to formally advise the organisers in advance by contacting biosecurity@conlog.com.au.

Feedback

We'd love to hear what you thought about the Symposium! At the conclusion of the event, a survey will be shared with attendees to help us make the event even bigger and better when we return in 2026.



Are you ready to help transform Australia's biosecurity?

Catalysing Australia's Biosecurity is a collaborative biosecurity research, development and innovation program led by Australia's national science agency, CSIRO, and the Australian Department of Agriculture, Fisheries and Forestry. We are working with wide ranging partners to deliver implementable science and technology solutions that have the potential to transform Australia's biosecurity.

Collaborate with us to build a better future.

csiro.au/cab



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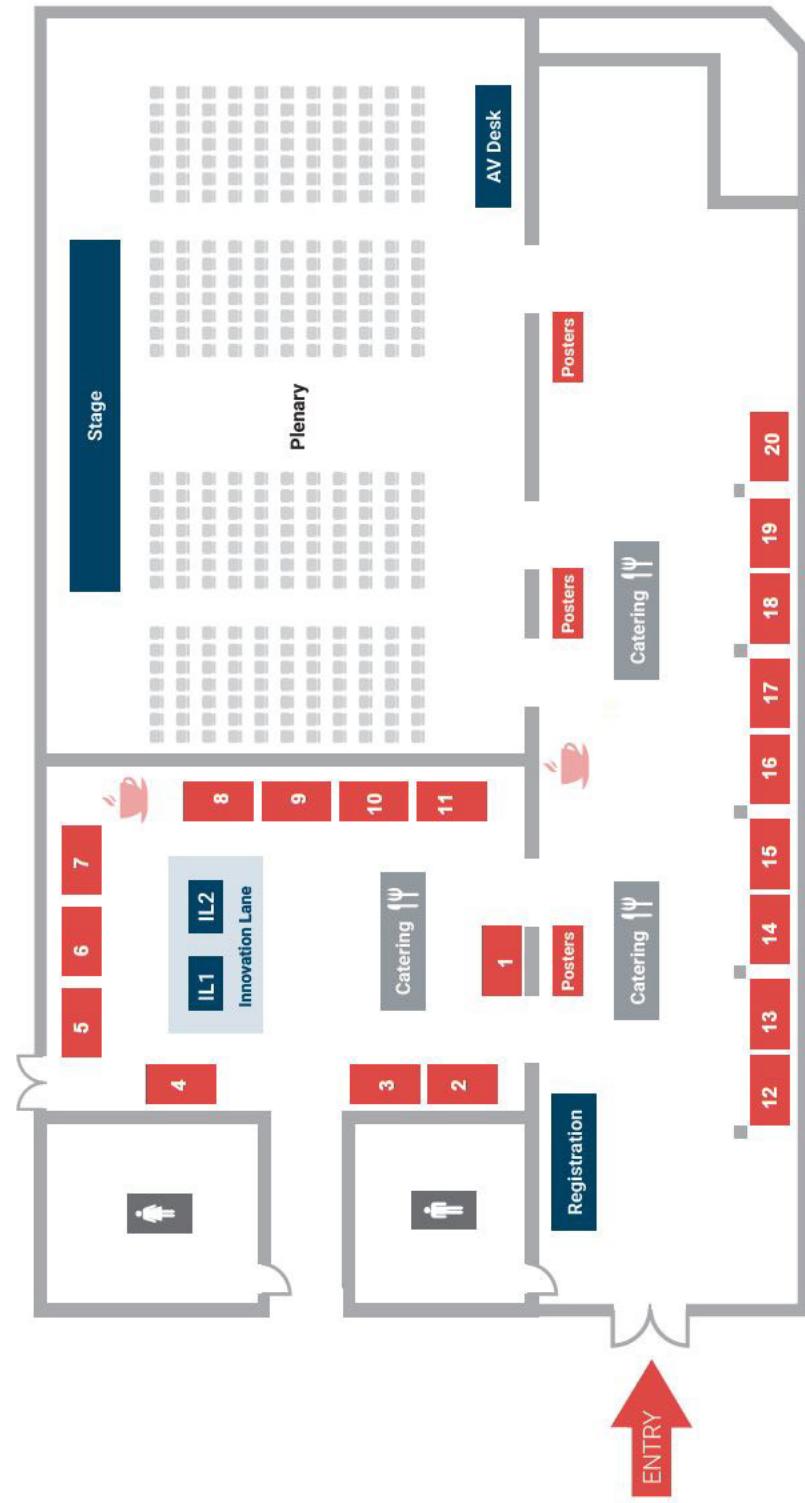
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biosecurity.qld.gov.au 13 25 23

Queensland
Government

Authorised by the Queensland Government, William Street, Brisbane.

Floorplan



1. QLD Department of Agriculture and Fisheries
2. CSIRO
3. Department of Agriculture, Fisheries and Forestry
4. Think Digital
5. Invasive Species Council
6. Biosecurity Tasmania
7. Centre for Invasive Species Solutions
8. Animal Health Australia
9. Plant Health Australia
10. GRDC
11. James Cook University
12. Murdoch University's Harry Butler Institute
13. Exoflare
14. CEBRA
15. New England Biolabs
16. PIGBAITTA
17. D'Central
18. ZiP Diagnostics
19. Onside
20. EcoDNA
- IL1 Genics
- IL2 BioScout



secure your farm: secure your future

Producers play an important role in protecting Australia's plant and livestock industries from pests and diseases by implementing sound biosecurity measures on-farm.

Biosecurity is the responsibility of all landholders and includes everyone visiting or working on your property. Biosecurity can be implemented at national, state, and regional level and it starts at the farm gate.

Farm biosecurity is a set of measures designed to protect a property from the entry and spread of pests and diseases.



Visit the Farm Biosecurity website for
farm biosecurity tools and resources.

farmbiosecurity.com.au

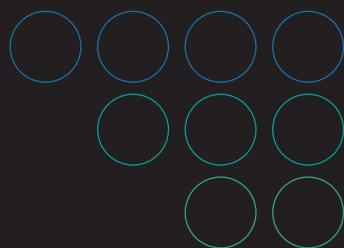


PHA-24-0304



NATIONAL BIOSECURITY **WEEK**

26-30 August 2024



Safeguarding Australia together.

National Biosecurity Week serves as an important reminder of the critical role biosecurity plays in protecting our environment, agricultural industries, food supply, communities and overall economy.

This inaugural annual event highlights the collaborative efforts of government, industry, peak bodies and the community in protecting the Australian way of life.

By raising awareness and advocating for the adoption of good biosecurity practices, National Biosecurity Week strives to strengthen our biosecurity system for the benefit of all Australians.

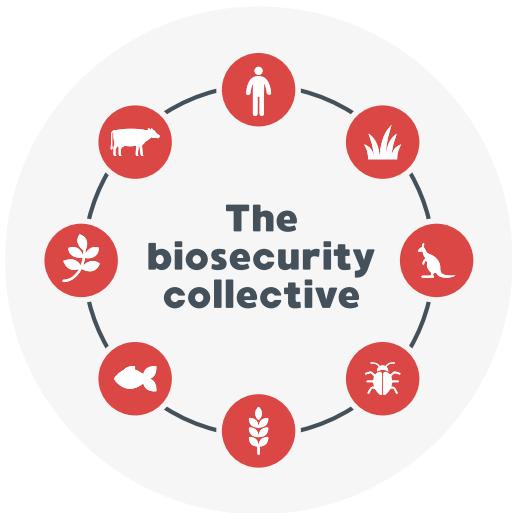
7 days of awareness. 365 days of action.

Find out how you can get involved at bioweek.org.au



PHA-24-0304

Acknowledgements



A special thanks to the following committees for making this Symposium possible:

- Management Committee
- Program Advisory Committee
- Symposium Working Group

Biosecurity Youth Summit



Dr Alfred Chidembo, MC

Expert facilitator, Culture change coach

How do we have a discussion about the future of our biosecurity system, without the future generation as part of the conversation?

This year, the inaugural Biosecurity Youth Summit will be hosted alongside the 3rd Australian Biosecurity Symposium.

In partnership with the Queensland Department of Agriculture and Fisheries and facilitated by Alfred Chidembo, this Summit will see up to 40 high school students from across Queensland come to Sea World to engage and immerse themselves in all things biosecurity, and we'll be hearing from the delegates about what they learnt and what they can teach us, in our final plenary session on Day 2.

We are so excited to be able to bring this event together and engage the next generation in biosecurity.

**BIOSECURITY
YOUTH SUMMIT**

Biosecurity Youth Summit sponsored by



**Queensland
Government**

Meet our keynotes



Costa Georgiadis, MC

Eco-visionary, landscape architect and environmental educator

As co-creator and host of Costa's Garden Odyssey for SBS, Costa caught the attention of a nation. Since 2013, Costa has continued his journey as the much-loved host of one of the ABC's most iconic and Logie award-winning programs, Gardening Australia.

Costa is an engaging and energetic presenter who has an all-consuming passion for plants and people. He is also deeply involved with the importance of biodiversity and habitat, regenerative agriculture, permaculture and holistic land practices evidenced in his book *Costa's World: Gardening for the Soil, the Soul and the Suburbs*.



Adam Ferrier

Marketing guru, brand strategist and consumer psychologist

Adam is an authority on behavioural economics and the author of *The Advertising Effect: How to change behaviour* (Oxford) and *Stop Listening to the Customer: Try hearing your brand instead* (Wiley). No stranger to the TV screen of Australia, Adam is a regular panellist on the Gruen Transfer, 7's Sunrise, and 10's The Project. Adam also founded Thinkerbell, an agency that creates 'measured magic', and was ranked 2021 number one Creative Agency in the world by industry publication BestAds - the first time awarded to an Australian agency.



Dr Chadden Hunter

Wildlife Biologist and Visual Storyteller

Dr Hunter has produced and filmed some of the world's most famous wildlife and environmental series including *Planet Earth 1* and *2*, *Wild Arabia*, *Frozen Planet* and *Seven Worlds One Planet*. Combined, these series have won over 20 Emmys and Baftas.

Dr Hunter is not just known for his role in the development of the *Planet Earth* series with Sir David Attenborough, but prior to working with the Discovery Channel also completed a PhD on primate behaviour, where he had to dodge armed bandits and survived brain parasites while studying gelada baboons in the highlands of Ethiopia.



Dr Claire Madden

Head Veterinarian of Sea World

Having stated she has her "dream job", Dr Claire Madden is currently employed by Village Roadshow Theme Parks as their Head Veterinarian, where her role oversees all the work at Sea World, Sea World Foundation and Paradise Country.

Graduating with a veterinary science degree from the University of Queensland in 2013, Dr Madden has held veterinary roles at Currumbin Wildlife Sanctuary, Australia Zoo, and Zoos Victoria. She has extensive experience in rehabilitation, chemical restraint, preventative health programs, zoonotic disease, and threatened species programs in a wide range of species.

Pre-event

Tuesday 27 Aug

Registration opens

5.15pm

The Boat Shed

Welcome reception

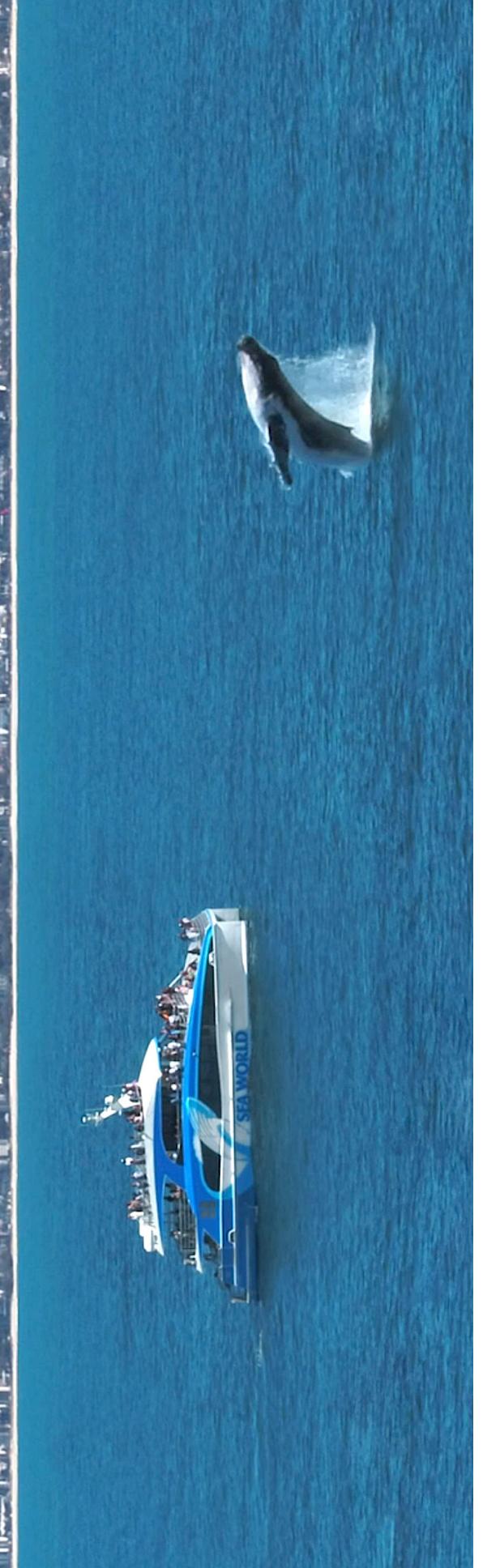
5.30–7.30pm

The Boat Shed



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Wednesday 28 Aug

Day 1

Conference Centre foyer

7.30am-5.30pm Registration open

Conference Room 3 and Foyer

8.00am-4:00pm Trade Display open and Poster viewing

OPENING PLENARY

Conference Room 1-2

Introduction and Welcome to Country

- Introduction: Costa Georgiadis, MC, Eco-visionary and landscape architect
- Welcome to Country
- Welcome to the 3rd Australian Biosecurity Symposium: Sarah Corcoran, CEO, Plant Health Australia

9.00am

How do we get 25 million Australians living and breathing biosecurity?

Keynote: Adam Ferrier

Adam will give us some insights into how!

As a keynote speaker, Adam will bring his experience working with many of Australia's and the world's top brands to introduce unconventional, award-winning and effective ideas, combining his passion for creativity and expertise within behavioural science.

Conference Room 3 and Foyer

10.00-10.30am Morning tea (Trade Display, BioScout Innovation Lane presentation and Poster viewing)

Cont'd

Program correct at time of printing. Please refer to the Symposium App for updates to the program.

CONCURRENT SESSION ONE

Conference Room 1

Conference Room 2

Ocean Room South

Ocean Room North

10.30am-12.30pm Concurrent 1A INNOVATION

Chair: Lucy Tran-Nguyen

Diagnostics and surveillance programs that support Australia's enhanced biosecurity activities

10.30am Concurrent 1B INNOVATION

Chair: Andy Sheppard

Risk mitigation and decision making based on the latest data

Concurrent 1C IMMERSION

Chair: Ian Thompson

Biosecurity education and awareness campaigns

Concurrent 1D INCLUSIVITY

Chair: Malcolm Letts

Building strong biosecurity partnerships at a local, regional, national or international level

10.30am

Could technology designed for MARS revolutionise animal biosecurity? Exploring outside our sector for step change innovation

Dr Bronwyn Darlington, Agscient University

Invasion Alert – using machine learning to identify invasive ants

Associate Professor Melissa Thomas and Professor Hamid Laga, Murdoch University

What is the ARC Training Centre in Plant Biosecurity?

Professor Peter Solomon, Australian National University

10.45am

Environmental DNA for sensitive detection of Varroa destructor in honey bee (*Apis mellifera*) hives

Dr John Roberts, CSIRO

Modifications to shipping container designs reduce biosecurity risk

Dr Samuel Lymberry, Murdoch University

Developing real-time modelling capabilities for animal disease outbreak response

Dr Christopher Baker, University of Melbourne

Children are the future: Fostering the next generation of biosecurity champions

Amanda Yong, Plant Health Australia

National Biosecurity Training Hub: A collaborative, centralised approach to biosecurity engagement

Dr Tracey Hollings, University of Melbourne

11.00am

AUSPestCheck®: Supporting data-partnerships and developing integrated digital biosecurity systems

Adam Hurrell, AUSPestCheck®

Developing real-time modelling capabilities for animal disease outbreak response

Dr Christopher Baker, University of Melbourne

Digital tools to support evaluation and reporting on the outcomes of invasive species management

Dr Jens Froese, CSIRO

Policy-making on-farm biosecurity best practices: Lesson learned from re-emerging foot-and-mouth disease outbreak in Indonesia

Muhammad Zahid, National Veterinary Drug Assay Laboratory

Collaboration: Adopting a think tank engagement model is key to a strong and robust national fruit fly management system

Stuart Burgess, Plant Health Australia

11.15am

openFMD: A data sharing and decision-support portal to enhance genomic and epidemiological surveillance of FMD

Dr Uli Muellner, Epi-interactive

What it will take to eradicate fire ants from Australia

Reece Planta, Invasive Species Council

Valuing ACIAR's contribution to biosecurity in Australia and overseas: A case study from mango crops

Dr Tracey Hollings, University of Melbourne

Cont'd

Wednesday 28 Aug

Day 1

11.30am	Is the NT sentinel cattle program adequate for its purpose? Dr Vidyा Bhardwai, Department of Industry, Tourism and Trade	Forecasting and optimally managing the spread of urban invasive forest pests Dr Emma Hudgins, University of Melbourne	Sustainability of Australian livestock producer on-farm biosecurity following the 2022 foot-and-mouth disease outbreak in Indonesia Steve Rich and Leanne Stewart, Government Industry Agreement for Biosecurity Readiness and Response	A decade of progress: New Zealand's Government and Industry Biosecurity Partnership Dr Heather Channon, Australian Pork
11.45am	Saleyard surveillance for foot-and-mouth disease and lumpy skin disease in New South Wales Alliza Bartley and Cecily Moore, NSW Department of Primary Industries and Regional Development	Varroa mite detection technology (BeeRight) pilot study Richard Keane, Department of Agriculture, Fisheries and Forestry	Hitchhiker pest awareness campaign Monica Talbot, Department of Agriculture, Fisheries and Forestry	Strengthening Australia's biosecurity - national feral pig coordination is reaping benefits Dr Heather Channon, Australian Pork
12.00pm	Next-generation spore trapping: Exploring opportunities and overcoming challenges Dr Michelle Demers, Bioscout	Analytics to action: Powering biosecurity risk reduction by harnessing diverse data sources Dr Habacuc Flores-Moreno, CSIRO	Enhancing northern Australia's emergency animal disease preparedness through government and industry collaboration Rebecca Ambrose, QLD Department of Agriculture and Fisheries	Using partnerships to eradicate fire ants Mick Jeffery, QLD Department of Agriculture and Fisheries
12.15pm	MicroRNA biomarkers for improved detection of infectious diseases Dr Cameron Stewart, CSIRO	Assessing and managing the ongoing risk of non-native invertebrate detections in the Antarctic region Dr Isabelle Onley, University of Adelaide	Strengthening smallholder resilience to LSD and FMD in Indonesia Katie Hallatt, LiveCorp	Is anybody out there? The work AgForce is doing behind the scenes to help in dealing with biosecurity challenges Dr Annie Rutledge, AgForce
12.30-1.15pm		Lunch (Trade Display and Poster viewing)		<i>Cont'd</i>

CONCURRENT SESSION TWO

		Conference Room 1	Ocean Room South	Ocean Room North
1.15-2.10pm	Concurrent 2A INNOVATION Chair: Dr Len Stephens New and innovative genetic technologies to enhance biosecurity practices AND New environmental / biological technologies Dr Foyez Shams, University of Canberra	Concurrent 2B IMMERSION Chair: Kim Halbert Upskilling workforces and communities to be biosecurity prepared Jessica Ward-Jones, Invasive Species Council	Concurrent 2C INCLUSIVITY Chair: Sharon Starick Lessons learnt from other sectors, pest and disease outbreaks or exercise programs Dr Regan Lynch, Nuffield Australia	Concurrent 2D IMMERSION Chair: David Rickards Digital campaigns, activities and programs that promote biosecurity awareness and preparedness Tanya Armstrong, QLD Department of Agriculture and Fisheries
1.25pm	Securing borders: eDNA integration imperative for government biosecurity policies Dr Dianne Gleeson, University of Canberra	Enhancing industry response readiness: A training pathway Kirsten Phillips, QLD Department of Agriculture and Fisheries	Exploring global perspectives on farm biosecurity and the future of agriculture: Insights from conversations with producers across the world Melissa Walker, NSW Department of Primary Industries and Regional Development	Targeting travellers to reshape biosecurity in northern Australia Dr Erin Roger, Atlas of Living Australia
1.35pm	Yellow crazy ant (<i>Anoplolepis gracilipes</i>) environmental DNA degrades rapidly in water Dr Samantha Tol, James Cook University	Lessons from a First Nations biosecurity training exercise in the Torres Strait Emma Atkins, Department of Agriculture and Fisheries	Varroa Mite Response: The importance of Public Information Elle McNamara, NSW Department of Primary Industries and Regional Development	Can citizen science fill data gaps and engage communities in biosecurity? A review of ALA's myrtle rust citizen science campaign Dr Erin Roger, Atlas of Living Australia
1.45pm	Assessing the potential of airborne eDNA for targeted weed detection Dr Harrison Eyck, CSIRO	Using a theory of change to design a frontline field epidemiology training program in New South Wales, 2024 Dr Laura Macfarlane-Berry, NSW Department of Primary Industries and Regional Development	The Voice of Country: An Indigenous perspective on biosecurity Richard Swain, Invasive Species Council	Jump dispersal: Linking biosecurity knowledge from research, industry and government via a web portal Les Kneebone, Centre of Excellence for Biosecurity Risk Analysis

Wednesday 28 Aug

Day 1

1.55pm
Khapra beetle populations using Diversity Arrays Technology sequencing (DATseq) technology
Dr Foyez Shams, University of Canberra

Genetic provenance analysis of the NSW livestock system
Dr Nicole Schembri, NSW Department of Primary Industries and Regional Development

2:10pm Transition to next session

PANEL SESSION THREE

Conference Room 1

Conference Room 2

Ocean Room South

Ocean Room North

2.15-3.15pm

Panel Session 3A

Facilitator: Sarah Corcoran, Plant Health Australia

Unleashing the power of women: Shaping the future of Australia's biosecurity landscape

Panel:

- Dr Gabrielle Vivian-Smith, Department of Agriculture, Fisheries and Forestry
- Brigid Price, Price Cattle Company
- Kathleen Plowman, Biosecurity strategist, change agent and leader
- Shakira Johnson, Biosecurity Coordinator for Farm Biosecurity, AUSVEG
- Callum Fletcher, Grains Research and Development Corporation

Panel Session 3C

Facilitator: Christine Milne AM, Invasive Species Council

'Eliminate, minimise and/or mitigate' – how can Australia meet new global biodiversity targets on invasive species?

Panel:

- Dr Carol Booth, Invasive Species Council
- Dr Andy Sheppard, CSIRO
- Dr Shalan Scholfield, Department of Agriculture, Fisheries and Forestry
- Dr Louise Cleary, Agriculture Victoria
- Bridie Walsh, Agriculture Victoria

Panel Session 3D

Facilitator: Johnathon Davey, Melons Australia

Shared responsibility: What does this mean to industry?

Panel:

- Nathan Hancock, Citrus Australia and Plant Industry Forum
- Melinda Hashimoto, Egg Farmers of Australia
- Kim Hooper, Australian Prawn Farmers
- Nathan Hancock, Citrus Australia
- Dr Lauren Hull, Agriculture Victoria
- Dr Paula Giraldo, Agriculture Victoria
- Dr Louise Cleary, Agriculture Victoria
- Bridie Walsh, Agriculture Victoria
- Dr Katherine Clift, Agriculture Victoria
- Dr Rachel Chay, QLD Department of Agriculture and Fisheries
- Dr Loyd Klumpp, Australia's Inspector-General of Biosecurity

Wednesday 28 Aug

Day 1

Conference Room 3 and Foyer

3.15-3.45pm Afternoon Tea [Trade Display and Poster viewing]

Conference Room 1-2

4.00pm

Someone call 'biosecurity' - we're getting pressure from our guests!



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CSIRO

- Moderated by Andreas Glanznig, Centre for Invasive Species Solutions
- Opening remarks by Dr Andy Sheppard, CSIRO
- Panellists include: Kat Bidstrup (Think Digital), Dr Adrian Turner (Exoflare) and Professor Di Gleeson (National eDNA reference laboratory)

5.00pm

Day 1 close

Atlantis, Sea World Resort
The Plaza, Sea World Resort

6:30 - 10.00pm

SYMPOSIUM DINNER

Canapes and beverages to start at Atlantis

MC: Costa Georgiadis

Welcome: Andrew Cox, CEO, Invasive Species Council

Special guest appearance: Prue and Trude (back by popular demand)

Entertainment: Brad Blaze, a world-renowned artist, will entertain guests with his talent for painting and comedy! More than just a 'live painter' Brad captures the attention of audiences with his unique show of speed painting and entertainment.

Sponsored by





Level up your biosecurity skills!

Visit the National Biosecurity Training Hub for a range of biosecurity training courses for every step of your career.



biotraininghub.com.au

national
biosecurity
training hub

Created to address the need for a centralised, coordinated approach to national biosecurity training, the Hub provides a national online repository of biosecurity training for industry, government and the community.

The Hub offers 60+ courses covering animal, plant and aquatic biosecurity with a variety of training modules delivered both online and in-person.

Courses range from on-farm animal disease training for producers, aquatic disease investigations for professionals, to hitchhiker pest training for businesses importing goods.

Tropical Biosecurity @ JCU

James Cook University is a world class, research-intensive institution with a strategic intent focused on discoveries and graduates that make a difference in the tropics worldwide. The Centre for Tropical Biosecurity at James Cook University delivers research and training to address the present and future biosecurity challenges for this region, as well as nationally and globally.



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GRDC is driving innovation for Australian grain growers. We support the grains industry by investing in cutting edge, innovative RD&E that delivers solutions in a changing, challenging world.



To learn more visit grdc.com.au

Thursday 29 Aug

Day 2

Sea World Lobby

7.30am-8.20am **Shark Bay tour (pre bookings required)**

Conference Centre Foyer

7.30am-4.00pm **Registration open**

Conference Room 3 and Foyer

8.00am-4:00pm **Trade Display open and Poster viewing**

WELCOME PLENARY

Conference Room 1-2

8.30-9.00am **Welcome**

- MC: Costa Georgiadis
- Welcome to Day 2: Dr Samantha Allan, CEO, Animal Health Australia
- Video message: Minister for Agriculture, Fisheries and Forestry, Australian Government, The Hon Julie Collins MP
- Video message: Minister for Biosecurity, New Zealand Government, The Hon Andrew Hoggard

9.00-10.00am

Attenborough and the Environment: Do wildlife films actually help the natural world?

Keynote: Chadden Hunter

Having produced and filmed some of the world's most famous wildlife and environmental series; Planet Earth 1 and 2, Wild Arabia, Frozen Planet and Seven Worlds One Planet which, combined, have won over 20 Emmys and Baftas, this is a keynote not to be missed. Dr Hunter's presentation will mix spectacular visual adventure with hilarious anecdotes, and look at whether the major Attenborough series can help the environment and drive behaviour change.

Conference Room 3 and Foyer

10.00-10.30am **Morning tea** (Trade Display, Genics Innovation Lane presentation and Poster viewing)

Cont'd

Thursday 29 Aug

Day 2

CONCURRENT SESSION FOUR

Conference Room 1

Conference Room 2

Ocean Room South

Ocean Room North

10.30-12.30pm	Concurrent 4A INCLUSIVITY Chair: Dr Jo Luck New unique partnerships and programs focused on bringing in new audiences or re engaging existing audiences	Concurrent 4B INNOVATION Chair: Dr Rachel Chay New ways of thinking and undertaking biosecurity activities	Concurrent 4C INNOVATION Chair: To be announced Risk mitigation and decision making based on the latest data	Concurrent 4D INNOVATION Chair: Dr Mark Cozens New digital and robotic technologies
10.30am	Biosecurity mates: Raising the profile of biosecurity through community champions Whitney Smith, QLD Department of Agriculture and Fisheries and Craig Magnusen, Darling Downs-Moreton Rabbit Board	How Extended Reality (XR) is being used to address biosecurity challenges across the Australian agriculture industry Kat Bidstrup and Tim Gentle, Think Digital Studios	Biosecurity risk calculator: Tracking biosecurity risk of export fruit along the cold supply chain Dr Himali Rathnayake, CSIRO	Biosecurity risk calculator: Utilizing X-ray imaging for pest detection in agricultural produce Dr Jiazheng Su, CSIRO
10.45am	Translating shared responsibility in biosecurity into action. Lyndal Reading, Agriculture Victoria	Designing a Biosecurity Maturity Model using the Cybersecurity Maturity Model as an analogue Adrian Turner, Exoflare	Modelling the incursion, spread, detection and control of khapra beetle in Australia Assoc. Prof Richard Bradhurst, University of Melbourne	Biosecurity innovation: Future-ready focused Jessica May, Department of Agriculture, Fisheries and Forestry
11.00am	Using behavioural insights to improve fire ant eradication efficacy Chris Hollingdrake, National Fire Ant Eradication Program	Accelerated Fungal Taxonomy: Enhancing names-based plant biosecurity Dr Yu Pei Tan, QLD Department of Agriculture and Fisheries	The power of network data for faster intelligence, traceability and disease spread prediction in the primary sector Guy Davidson, Onside	WeedScan: Australia's first computer vision weed identification and communication system: early experience, issues and responses Andreas Glanzig, Centre for Invasive Species Solutions

Cont'd

Thursday 29 Aug

Day 2

11.15am	BIOSECURITY FOR BIODIVERSITY: a five-year retrospective with Australia's Chief Environmental Biosecurity Officer Dr Katie Hail-Jares, Dr Margo van Feijus, Griffith University	The Varroa Mite Response: Australia's largest plant biosecurity emergency response Dr Shannon Mulholland, NSW Department of Primary Industries and Regional Development	Advances in non-destructive detection methods for assessing fruit fly oviposition damage in fresh fruits Dr Maryam Yazdani, CSIRO
11.30am	Building biosecurity awareness and EAD preparedness in NSW high schools Dr Nicole Schembri, NSW Department of Primary Industries and Regional Development	Biosecurity Queensland new innovations developed during Varroa mite Response Strategy Dean Stephen, Biosecurity Queensland / QLD Department of Agriculture and Fisheries	Unregulated trade of alien pets in Australia: the emerging challenge of 'fake' species Dr Adam Toomes, University of Adelaide
11.45am	Introducing Pest READI: Regionally-Enabled Agroecological Decision Intelligence Dr Hazel Parry, CSIRO	The importance of re-training to keep the high standard of Feedlot Biosecurity practices Neny Santy Jelita Lumbantoruan and Neni Eviyanti Togatop, PT. Juang Jaya Abdi Alam	A systematic review of epidemiological modelling for preparedness and response to lumpy skin disease outbreaks Simin Lee, University of Melbourne
12.00pm	Amplifying Australia's animal antimicrobial stewardship efforts Dr Kylie Hewson, CSIRO	Evaluating epidemiology capacity and surveillance: Leveraging FAO tools in New South Wales, 2023 Dr Laura Macfarlane-Berry, NSW Department of Primary Industries and Regional Development	Detection to eradication: A robust decision-making framework for invasive species management programs Jules Seabright, Wet Tropics Management Authority
12.15pm	Piloting a new companion animal biosecurity surveillance model in remote Indigenous communities Dr Bonny Cumming, Animal Management in Rural & Remote Indigenous Communities and Nikita Puruntatameri, Tiwi Rangers	A structured approach to biosecurity decision-making in the Antarctic Dr Zachary Carter, University of Adelaide	Aquatic Invasive Species Explorer - An interactive interface linking complex risk models and decision-support tools with every-day biosecurity decisions Dr Uli Muellner, Epi-i-interactive
12.30-1.15pm		<i>Conference Room 3 and Foyer</i>	
Lunch (Trade Display and Poster viewing)		<i>Wireless Sensor Networks for Biosecurity, Collaboration and Engagement</i>	

Cont'd

CONCURRENT SESSION FIVE

Conference Room 1		Conference Room 2	Ocean Room South	Ocean Room North
1.15-2.10pm	Concurrent 5A INNOVATION Chair: Dr Rob Barwell New research enhancing the system	Concurrent 5B INNOVATION Chair: Dr Geoff Grossel New ways of thinking and undertaking biosecurity activities	Concurrent 5C INCLUSIVITY Chair: Bruce Christie Strong partnerships at a local, regional, national or international level	Concurrent 5D INCLUSIVITY Chair: Emily Mellor Enhancing biosecurity shared culture and promoting responsibility
1.15pm	The terrestrial invertebrate trade: Implications for biosecurity in Australia Charlotte Lassaline, University of Adelaide	Challenges to eradicating the electric ant Wasmannia auropunctata from tropical Queensland Nastassja Cox, Department of Agriculture, Fisheries and Forestry	Working together to help return Country to Country Heidi Kleinert, Victorian Rabbit Action Network	Harnessing First Nations wisdom: Enhancing environmental biosecurity in contemporary Australian landscapes David Barras, Department of Agriculture, Fisheries and Forestry
1.25pm	Rethinking biosecurity of shipping containers in Australia: Inferring on the risk of insect pest hitchhikers using molecular data Dr Alejandro Trujillo-González, University of Canberra	Enhancing biosecurity system through next generation sequencing technology and community science Dr Sonu Yadav, NT Government	On-Farm Biosecurity Summit – An initiative aimed at fortifying biosecurity measures across the agricultural sector Tanya Nagle, AgForce Queensland Farmers and Kirsten Phillips, QLD Department of Agriculture and Fisheries	To be announced.
1.35pm	eDNA based detection as a tool in biosecurity monitoring and surveillance to enhance early detection and management of invasive pests Dr Brendan Rodoni, Agriculture Victoria	Eradicating fire ants by 2032: The National Fire Ant Eradication Program response plan Ash Bacon, National Fire Ant Eradication Program	Exploring Biosecurity Attitudes and Cultural Shifts in the Northern Australian Beef Industry: Implications for Disease Management and Industry Resilience Dr Regan Lynch, Nuffield Australia	Making shared responsibility for biosecurity workable Professor Vaughan Higgins, University of Tasmania
1.45pm	Using wildlife as an approach to animal disease surveillance Hannah Andrews, NT Government	Development of an integrated island biosecurity framework Dr Yang Liu, Murdoch University	When neighbours become good friends: Discrepancies and overlap in Australian state-based regulation of invasive plants Jacob Maher, University of Adelaide	The role of partnerships in our reimagined shared biosecurity future Sarah Corcoran, Plant Health Australia

Cont'd

Thursday 29 Aug

Day 2

1:55-2:00pm Transition to next session

CONCURRENT SESSION SIX: SPEED TALKS

	Conference Room 1	Conference Room 2	Ocean Room South	Ocean Room North
2:00-2:45pm	Concurrent 6A Chair: Dr Rob Barwell Speed Session	Concurrent 6B Chair: Christie Sawczuk Speed Session	Concurrent 6C Chair: Ashley Turner Speed Session	Concurrent 6D Chair: Fiona Sutton Speed Session
2:00pm	Improving traceability through behavioural science Sam Moore and Trudy Marriott, Evidn African swine fever Dr Jennifer Manyweathers, Charles Sturt University	Supporting smallholder pig producers in Viet Nam with biosecurity preparedness for African swine fever Kellyanne Harris, VIC Department of Energy, Environment and Climate Action	Rabbits, Rewilding questions to answer first TBA, Victorian Rabbit Action Network Backyard Biosecurity Andrew Bishop, Agriscience Consultancies Tasmania	New control tools for tackling pest animals in South Australia Dr Brad Page, SA Department of Primary Industries and Regions A proof of concept for facilitating resource allocation at the border Dr Edith Arndt, University of Melbourne
2:07pm	Inclusivity in AUSVETPLAN development Dr Mark Cozens, Animal Health Australia Feral herd management in Northern Australia: insights from GPS track and survey data Dr Maryam Golchin, CSIRO	 The methodology of biosecurity system evaluation – the New Zealand case study Dr Julia Potak, University of Melbourne	 A buzzworthy cause: Bee Pest Blitz Kathryn Pagler, Plant Health Australia Maintaining a critical digital platform for biosecurity surveillance of illegal internet wildlife trade Prof Phill Cassey, University of Adelaide	 One lump or two? – having capacity is the sweet spot for general surveillance Teagan Fitzwater, Department of Agriculture, Fisheries and Forestry
2:14pm	Regulation of Agvet chemicals: APVMA approval of permits for biosecurity risks Dr Nisha Sharma, Australian Pesticides and Veterinary Medicines Authority	 Understanding on-property biosecurity attitudes and behaviours Nicole Cairns, Kellyanne Harris, VIC Department of Energy, Environment and Climate Action	 Modelling the consequences of myrtle rust (exotic strains) across the Australian landscape Dr Thao Le, University of Melbourne	<i>Cont'd</i>
2:21pm				

Thursday 29 Aug

Day 2

2.28pm	Bridging human, animal, plant and ecosystem health in aquatic Biosecurity Cassandra Edmunds, The Centre for One Biosecurity Research, Analysis and Synthesis	Dive into the EEP! A big exotic species list of “no thanks.” Dr Shalan Scholfield, Department of Agriculture, Fisheries and Forestry	Unlocking the potential of MicroRNA biomarkers to diagnose vector-borne diseases: A systematic review and implications for Australian biosecurity Tilini De Silva, University of Melbourne	Using environmental DNA methods (eDNA) for early detection of invasive terrestrial invertebrates in water and soil Dr Cecilia Villacorta-Rath, James Cook University				
2.35pm	The Australian Biosecurity Genomic Database Dr Jana Batovska, Agriculture Victoria	The innovation and evolution of biosecurity detection dog: From borders to eradication programs Ryan Tate, Tate Animal Training Enterprises	Unique partnership between Government and the South Australian pig industry to deliver mutual biosecurity benefits Chelsea Dossett, SA Department of Primary Industries and Regions	Invasive species cost assessment for New South Wales: A rapid review of incurred and current costs Dr Nicholas Moran, University of Melbourne				
<hr/>								
2.45-3.15pm Afternoon Tea [Trade Display and Poster viewing]								
<hr/>								
3.15-4.15pm	Panel discussion – Are we there yet? Creating change one step at a time							
	<ul style="list-style-type: none">• Moderated by Costa Georgiadis• Opening remarks by Dr Claire Madden (Head Vet of Sea World)							
	We'll then move into a special presentation with a selection of Biosecurity Youth Summit delegates. We'll round out this session with a fireside chat with some special invited guests - the Biosecurity Mates:							
	<ul style="list-style-type: none">• Craig Magnussen, Darling Downs-Moreton Rabbit Board• Phoebe Arbon, James Cook University• Jessica Lovegrove-Walsh, Friends of Parks Queensland							
<hr/>								
CLOSING PLENARY								
4.15-4.30pm	MC: Costa Georgiadis Symposium closing remarks, insights and next steps with CEOs of Animal Health Australia, Plant Health Australia, Centre for Invasive Species Solutions and Invasive Species Council.							

Posters

Posters will be available for viewing during break times in the Foyer. Vote for your favourite poster in the Foyer.

-
- 1 **Corruption, a hidden plague affecting biosecurity and sustainable development.** ●
Torbi Abich Rech
- 2 **One Biosecurity — demonstrating the value of data for decision-making, market access, and disease preparedness.** ●
Dr Cleopas Bamhare
- 3 **Utilizing Survival Analysis to Develop Models for Estimating Detection Size of Invasive Species under Surveillance** ●
Dr Kuo-szu Chiang
- 4 **Shining a Light on Australia's Bachelor's Degree Veterinary Paraprofessionals: Strengthening Our National Animal Biosecurity Defences** ●
Dr Patricia Clarke
- 5 **'Destroy and let lie' — An evaluation of a carcass disposal approach under Australian field conditions.** ●
Associate Professor Rowland Cobbold
- 6 **Harnessing the Power of Micro RNA Biomarkers: Innovative Diagnostics to Strengthen Australia's Biosecurity Defences** ●
Tilini De Silva
- 7 **Benchmarking farm biosecurity to enhance disease preparedness and resilience of the South Australian pig industry** ●
Chelsea Dossett
- 8 **One Biosecurity approach to research prioritisation** ●
Dr Cassandra Edmunds
- 9 **One Biosecurity program — demonstrating the value of innovative industry and government partnerships in South Australia** ●
Andrew Ewers
- 10 **Quantitative Rapid Risk Analysis - an effective tool during the NSW Varroa Destructor mite outbreak** ●
Dr Catherine Fraser
- 11 **A collaborative approach to review and enhance livestock export registered establishment biosecurity plan templates** ●
Katie Hallatt
- 12 **Driving behaviour change in the pork and red meat industries to support traceable biosecurity and reduce biosecurity risks.** ●
Lynne Hayes
- 13 **Engagement with traceability among the cattle, sheep and goat industries in New South Wales** ●
Dr Marta Hernandez
- 14 **Animalplan 2022-27: Australia's first national action plan for production animal health.** ●
Dr Kylie Hewson
- 15 **Mixed methods and Bayesian Network modelling to design interventions for NSW marine estate biosecurity activities** ●
Dr Jennifer Manyweathers
-

16	Can Track and Trace Technology support early detection and rapid response to biosecurity threats?	●
	Leonie Martin	
17	ONE HEALTH APPROACH TO BIOSECURITY	●
	Jovana Mitich	
18	Review of transmission pathways and surveillance strategy in an Australian context for Varroa destructor.	●
	Dr Shannon Mulholland	
19	Reflecting on 25 years of bee pest surveillance	●
	Kathryn Pagler	
20	Applying Australian biosecurity policies to Antarctica: mitigating the risk of vessel biofouling introducing non-native species	●
	Frances Perry	
21	The role of APVMA in biosecurity responses: Off-label use of chemicals against invasive ants	●
	Nirosha Ranawaka	
22	Optimal Approaches to Fungal Metabarcoding in Northern Australia: Designing Experiments for Effective Results	●
	Dr Elnaz Saki	
23	Understanding sentiment of emergency animal disease control measures to inform communications in an outbreak.	●
	Dr Nicole Schembri	
24	Ehrlichia canis awareness and engagement in Indigenous communities in regional NSW	●
	Dr Nicole Schembri	
25	Uncovering Scale's Sooty Secrets: Sooty Mould Communities Reflect Scale Insect Infestation on a Remote Island	●
	Zohara Scott	
26	Detection to eradication: a robust decision-making framework for invasive species management programs	●
	Jules Seabright	
27	Assessment of farm biosecurity practices by sheep and cattle producers in South Australia using an online application	●
	Jarunee Siengsanan-Lamont	
28	Modelling workflows for rapid outbreak appraisal, decision- and policy-support	●
	Meryl Theng	
29	Evaluating AICAR's contribution to biosecurity in Australia and Southeast Asia	●
	Dr Lu-Yi Wang	
30	Novel eDNA and genetic information analysis tool	●
	Nan Zhang	
31	A rapid presumptive Loop Mediated Isothermal Amplification (LAMP) assay for detecting the invasive corn snake (<i>Pantherophis guttatus</i>)	●
	Nathan Deliveyne	

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Catalysing Australia's Biosecurity (CAB) is a collaborative biosecurity research, development and innovation program led by Australia's national science agency, CSIRO, and the Australian Department of Agriculture, Fisheries and Forestry. CAB is aligned to the *National Biosecurity Strategy*, supporting the transformation of Australia's biosecurity through technology and digital innovation. CAB is focused on catalysing national and regional partnerships to deliver implementable solutions. We are working with wide ranging partners from across government, industry, universities, and local communities. CAB is committed to working with Aboriginal and Torres Strait Islander communities to ensure their involvement across all areas of its program.

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[animalhealthaustralia.com.au/
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The National Biosecurity Response Team (NBRT) program enhances Australia's biosecurity system by providing a skilled and interoperable workforce, strengthening preparedness and response capabilities, fostering innovation and improvement, and developing a learning culture across all stakeholders.

The group of trained and experienced personnel may be called on to assist a jurisdiction in the response to biosecurity incidents. NBRT members are personnel from government agencies with knowledge, experience and training in emergency management, incident management or more specifically, responding to biosecurity incidents. The NBRT is cross-sectoral and could deploy to respond to an animal, plant, aquatic or environmental biosecurity incident as well as natural disasters.

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Murdoch University's Harry Butler Institute fosters a collaborative research environment, driving innovation for a sustainable future. Partnering with industry, government, and community, we address current and future environmental challenges through translational research and engagement. Our expertise spans terrestrial, aquatic and marine ecology, biosecurity, One Health, and resource and waste management.

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The Atlas of Living Australia (ALA) is Australia's national biodiversity data infrastructure. The ALA is made possible through the National Collaborative Research Infrastructure Strategy (through the Australian Government) and is hosted by CSIRO.

Trade displays



Animal Health Australia is a not-for-profit public company that facilitates innovative partnerships between governments, major livestock industries and other stakeholders to protect animal health and the sustainability of Australia's livestock industry.



Founded 50 years ago by scientists, NEB is a world leader in the discovery and production of enzymes for molecular biology with solutions for amplification, sequencing, RNA analysis and more.



Biosecurity Tasmania is part of the Department of Natural Resources and Environment Tasmania. They work alongside Tasmanian primary industries and the general public to maintain and strengthen Tasmania's biosecurity systems.



Centre for Invasive Species Solutions is a national collaborative research, development and extension organisation, formed to tackle the ongoing threat from invasive species.



D'Central -an Australian-owned company providing innovative, flexible and rapid point of care diagnostic testing, onsite, anywhere in Australia. We are well positioned to provide, not only solutions for endemic testing, but to put in place rapid measures for Biosecurity Surveillance.



EcoDNA focusses on the translation of the latest in eDNA technologies for applied nature positive solutions in biosecurity and biodiversity for Australia and the Asia Pacific region



Invasive Species Council was formed in 2002 to keep the Australian environment safe from weeds, feral animals and other harmful invaders and focuses on prevention and early action.



Onside is a Christchurch-based technology company with a vision to power the world's biosecurity. Onside's biosecurity tracing software, Onside Intelligence, provides interactive tools to explore movement data and other industry-specific biosecurity insights, including real-time traceability exercises.



PIGBAITTA was developed to allow the free feeding and baiting process to be simpler, less time consuming and to bait the whole sounder in one-bait, also use when trapping, no off target in trap.

Trade Displays



Plant Health Australia is the national coordinator of the government-industry partnership for plant biosecurity in Australia. PHA works to minimise pest impacts on Australia, enhance market access and contribute to industry and community sustainability.



Think Digital Studios uses XR and AI to solve problems in agriculture. From workforce attraction and training, to helping people learn where their food is grown, biosecurity and on-farm productivity.



ZiP Diagnostics is a Melbourne-based diagnostics manufacturer with a mission to provide rapid, accurate and low-cost infectious disease tests to meet global needs in human, animal and environmental applications.

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