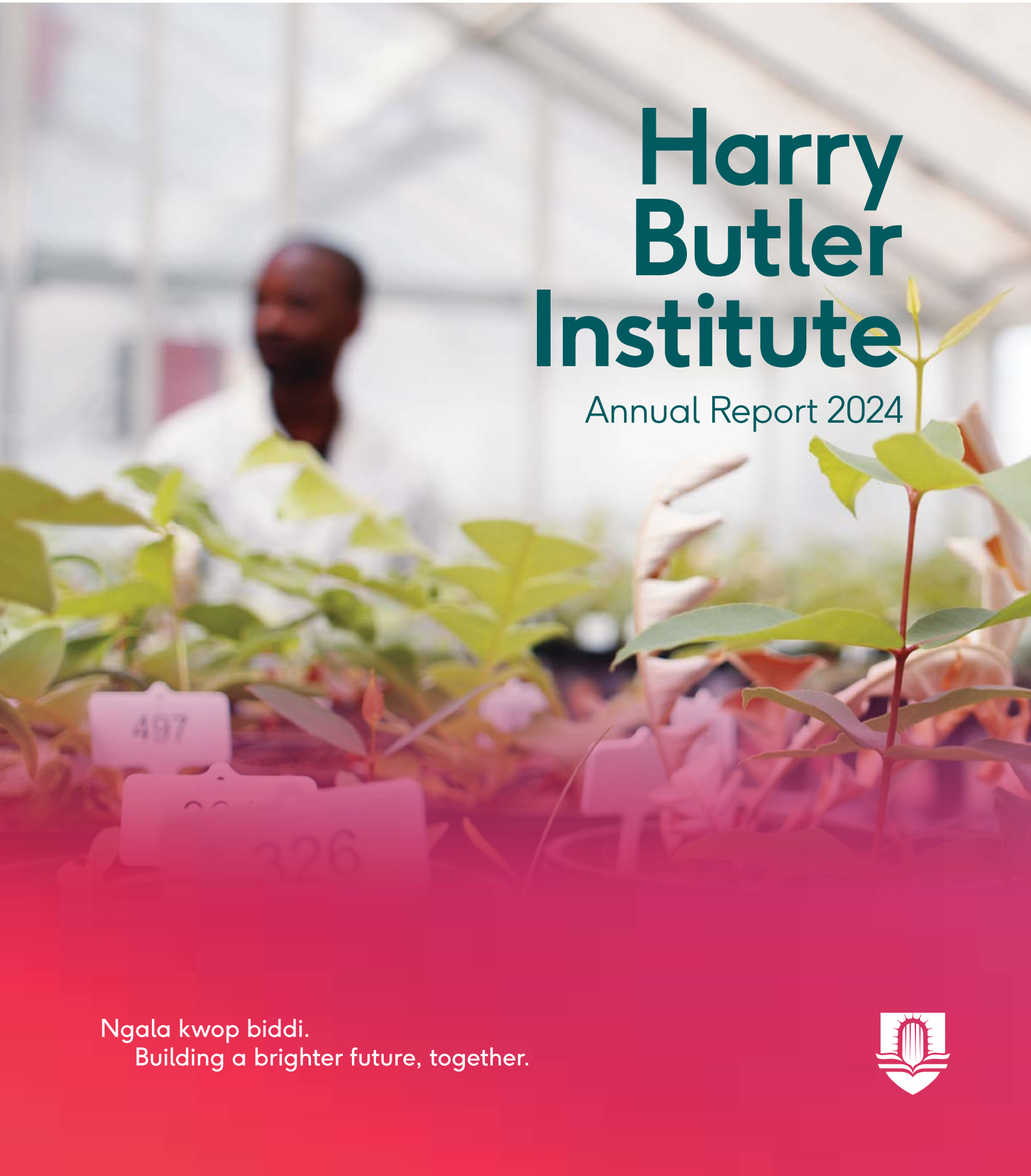
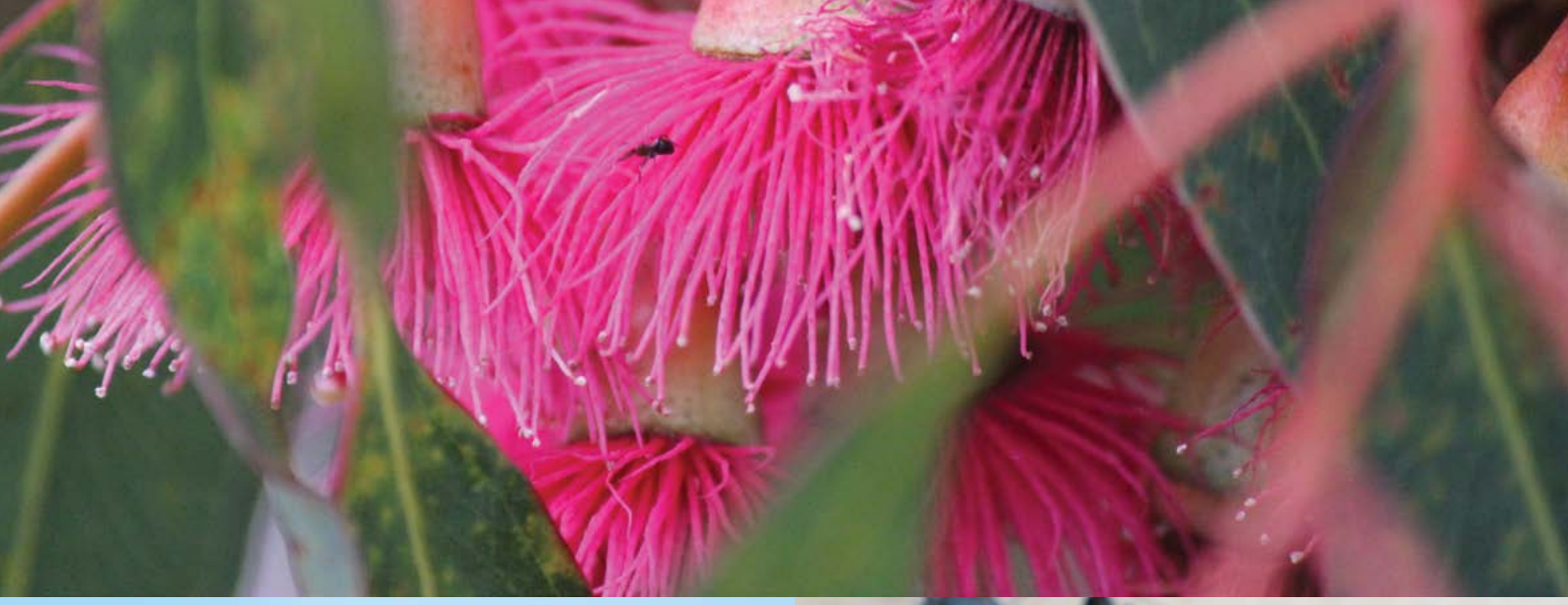
Murdoch University | Harry Butler Institute



Harry Butler Institute

Annual Report 2024

Ngala kwop biddi.
Building a brighter future, together.





Carnaby's black cockatoo.
Photo Dannon Wu



Harry Butler Institute

Innovating for a sustainable future through collaborative research.

Front cover: Plant research greenhouse experiment.
Photo Dannon Wu

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Acknowledgment of Country

The Harry Butler Institute acknowledges the Traditional Owners of Country throughout Australia. We pay our respects to Elders past and present.



Quenda.
Photo Dannon Wu, HBI

Contents

Executive Director's report 2
Our People 6
Achievements and Impacts in 2024 8
Our Research 10
Harry Butler Education Hub 36
Marketing 40
Events 42
Awards 46
Publications 48



Executive Director's report



Prof Treena Burgess
Executive Director,
Harry Butler Institute

"At the heart of our vision, lies a commitment to expanding strategic partnerships that foster world-class research and drive real-world impact."



The year 2024 has been a significant period for the Harry Butler Institute at Murdoch University, one marked by enthusiasm, innovation, and an energetic drive that continues to attract growing interest from industry, government, and the wider community. As Executive Director, I am proud to share the progress we've made this year and the exciting path ahead.

At the heart of our vision, lies a commitment to expanding strategic partnerships that foster world-class research and drive real-world impact. From conservation and ecological restoration to extractive metallurgy and infectious diseases, the Harry Butler Institute is delivering scientific excellence with a purpose, fuelled by curiosity, creativity, and collaboration.

We've seen the fruits of this vision in 2024 through a range of exciting initiatives. For example, our education programs took a leap forward with the launch of the WA Bug Barcode Blitz, a citizen science initiative engaging high school students across regional Western Australia to collect, discuss and DNA barcode local insects and spiders. We piloted a new wetlands science program with local schools, connecting students with our experts in snake-necked turtles, freshwater and feral fish, and mussels.

We brought global conversations to our doorstep, hosting a visit from polyphagous shot-hole borer expert from the University of California, Dr Shannon Lynch, and held a public lecture to share her knowledge with the wider community. We proudly watched as our PhD student and movement ecologist, Marie Windstein, interviewed the legendary Dr Jane Goodall during the Perth stop on her 'Reasons for Hope Tour'.

Our researchers broke new ground in terrestrial conservation, transforming lawns to woody meadows, bringing biodiversity and bushtucker to carbon farming in regional communities, and diving deep into the dietary habits of invasive foxes.

In our aquatic ecosystems, our research has revealed new insights into the taxonomy and threats to endangered species such as whale sharks and sawfishes. We have developed new tools to detect changes in ecosystem health and improve the resilience of freshwater ecosystems.

Through exciting new partnerships, our extractive metallurgy research team is taking sustainable metals recovery to new levels. They are utilising advanced technology, such as Flash Joule Heating (FJH) technology, to recover valuable materials from local ores and e-waste.

Within our Algae Research & Development group, we are taking a microscope to the science behind methane-lowering algae stock feeds, uncovering critical gaps in the research. The group's expertise was recognised on the international stage as we were announced to be the hosts for the 2027 International Society for Applied Phycology Conference.

In the events and communications space, we have stepped up our efforts to engage academia, industry and the public through our events and public lectures. We have hosted numerous conferences for industry and community partners in Murdoch University's state-of-the-art Boola Katitjin building, utilising our video team to live-stream events and create recordings.

Lasting legacies

The year 2024 was a year of change as we saw inaugural Director of HBI, Professor Simon McKirdy, move on to a new role within the University, as Deputy Vice Chancellor of Global Engagement. Professor McKirdy maintains a strong connection with HBI as Professor Plant Pathology, continuing to mentor and supervise a number of research students and work closely with our team. Read more about Professor McKirdy's HBI legacy below.

Following Simon's departure, HBI Project Lead Susan Marie joined him at Global Engagement to take on the role as Director Strategic Partnerships. Susan had joined HBI after convening the first two successful Western Australian Biodiversity Conferences in 2021 and 2023, working closely with HBI. As Project Lead at HBI she used her unique skills to foster strong partnerships between academia, industry, and Indigenous communities in support of key projects such as the Harry Butler Science Centre. She emphasised Indigenous-led conservation and scientific solutions for environmental challenges and played a key role in formalising partnerships with like-minded international collaborators. Susan's achievements while at HBI have had a lasting impact on our business and our people.

Before the year ended, Andre deSouza, HBI's Manager of Operations felt the time was right to move on to a new challenge, taking up a new role as Director of Entrepreneurship within the University's College of Business. Andre had been at HBI since the Institute's inception, bringing to the role his expansive knowledge of business and industry, as well as his passion for marketing and tech-integrated solutions. His leadership has been central to fostering innovative research initiatives, particularly in leveraging emerging technologies such as artificial intelligence and drone technology to address ecological and environmental challenges. He has played an integral role in the establishment of the Harry Butler Institute and its reputation for fostering strong relationships with industry and sharing our achievements through outreach and communications.

Lastly, HBI saw two prominent Murdoch University professors take retirement in 2024: Professor Alan Lymbery and Professor Wendell Ela.

Professor Alan Lymbery had been a Professor of Parasitology in the School of Environmental and Conservation Sciences for nine years, teaching students about parasitology. He had also served as Director of the Centre for Sustainable Aquatic Ecosystems since the Centre's inception. Over his career, Professor Lymbery carved out a unique path in aquatic parasitology, combining the fields of disease ecology and conservation biology. He published more than 238 scientific articles with collaborators across the globe, as well as influential pieces in The Conversation. In retirement, he continues to mentor and support research students, working closely with the Centre for Sustainable Aquatic Ecosystems newly appointed Director, Professor Stephen Beatty.

Professor Wendell Ela had been inaugural Chair of Desalination and Water Treatment at Murdoch University and the Chief Scientific Officer of the National Centre of Excellence in Desalination Australia. His research focused on desalination technology development and implementation, as well as decentralised and off-grid water treatment systems and integrated water-renewable energy solutions for rural communities and agriculture. Although retired, he continues to contribute to key water research projects impacting rural communities.

A bright future

Looking ahead, we are filled with optimism. As our Institute grows, so does our impact on sustainable and environmental research, both locally and internationally. We continue our work with communities, schools, and Aboriginal Elders and communities through the expansion of our citizen science and outreach programs, and the adoption of two-way knowledge. Our communications efforts expand our reach.

Following the success of our bids to host both the International Society for Applied Phycology (ISAP) 2027 Conference and the 5th International Congress on Biological Invasions (ICBI), we are embracing the opportunity to share our expertise, our research facilities and the beautiful city of Perth with global audiences.



I'm immensely proud of what we've achieved in 2024, exemplifying our strengths in collaborative and innovative research that builds towards a sustainable future.

As we continue work aligning with the United Nations Sustainable Development Goals, we recognise that there is more we can do. As an Institute, we are working to improve our engagement in two-way science, and providing equal access to outreach programs, while generally improving our communication. Together with our community, industry and government partners, we look forward to building on the momentum of 2024 and embracing the opportunities of the future.



Prof Treena Burgess
Executive Director,
Harry Butler Institute

In recognition of Professor Simon McKirdy

When Professor Simon McKirdy took on the role as the inaugural Pro-Vice Chancellor of the Harry Butler Institute (HBI) in 2017, he brought a wealth of experience in industry and government to an academic role.

Over the next seven years he shaped a culture of collaboration both internally and externally, delivering research outcomes to address real-world problems through partnerships.

As Pro-Vice Chancellor, Simon built a research institute with a reputation for high-quality research and innovative management solutions in a wide range of areas related to environmental sustainability. The ethos of working collaboratively across industry, regulators and academia, upon which the institute was built, was inspired by its namesake, Harry Butler. The famed Western Australian environmental educator was a great inspiration to Simon.

Countless researchers, collaborators and students at Murdoch University and beyond, have benefited from Simon's leadership and expertise, particularly in the area of global biosecurity.



Simon McKirdy.
Photo Dannon Wu, HBI

The professional and academic team Simon nurtured is well placed to honour the Institute formed out of his vision, as Simon moves on to his new role as Deputy Vice Chancellor Global Engagement. HBI continues to benefit from his guidance and support as he maintains an active interest in the success of the institute and continues to support research outcomes in the Centre for Biosecurity and One Health.

Our People

Harry Butler Institute Leadership Team

Executive Director



Prof Treena Burgess

Business Director



Andre deSouza

Centre Directors



Centre for
Water Energy and Waste

A/Prof John Rubrecht



Centre for
Sustainable Aquatic Ecosystems

Prof Alan Lymbery
Outgoing



Prof Stephen Beatty
Incoming



Centre for
Terrestrial Ecosystem Science and Sustainability

Prof Trish Fleming



Centre for
Biosecurity and One Health

Prof Sam Abraham



Achievements and Impacts in 2024



Broome sunset.
Photo Dannon Wu, HBI

SCIENTIFIC PUBLICATIONS

Total publications in 2024

266*

Q1 outlets: **70.1%**

Top 10% of outlets: **17.9%**

Number of citations in top 10% journals by Citescore

2024

42.9%

2020–24

42%

* Published with HBI byline

FIELD-WEIGHTED CITATION IMPACT

2024

1.75

2020–24

1.73

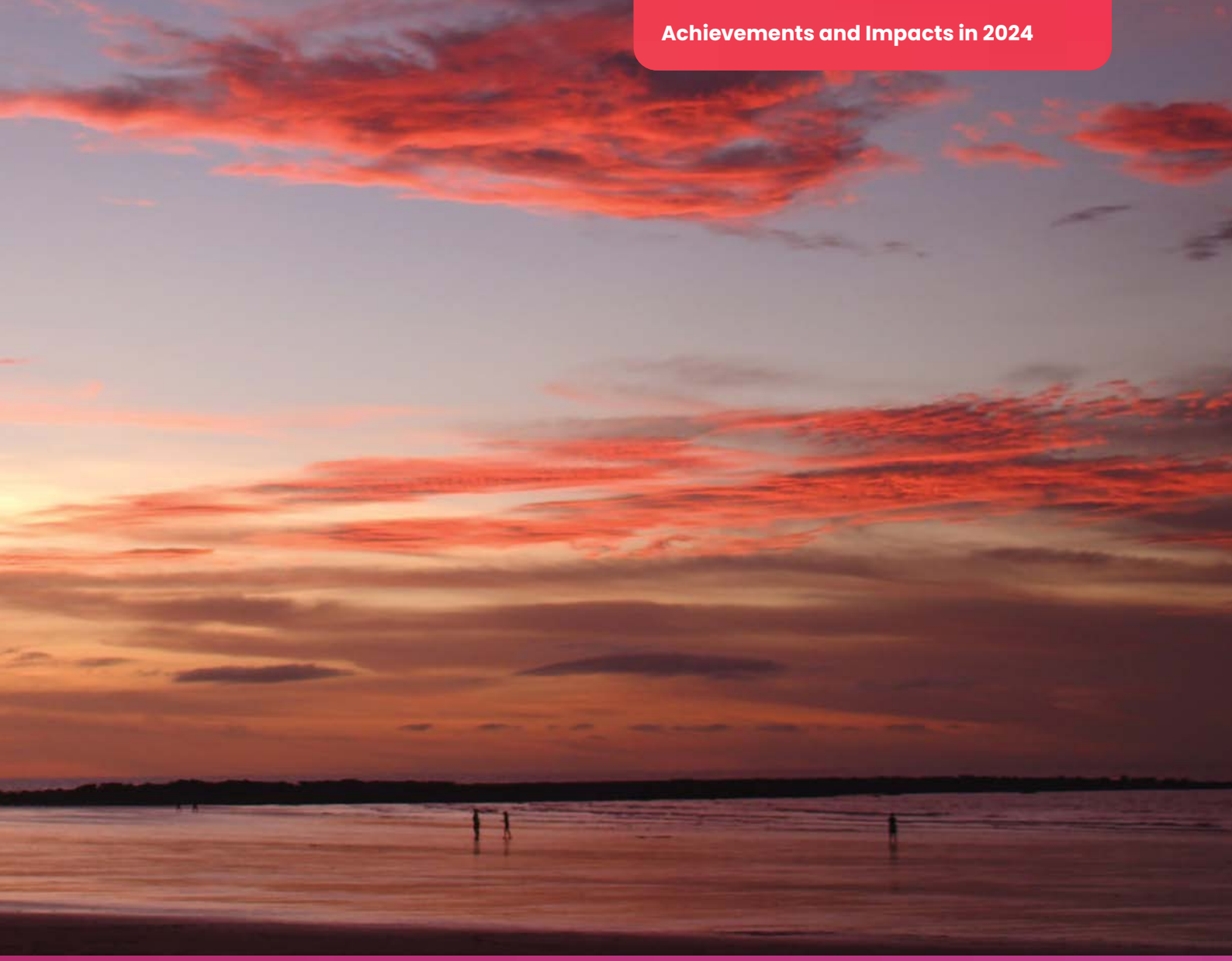
(usually done on a 5 year rolling average)

NEW FUNDING AWARDS

2024

$5,889,102

(income to MU where Chief Investigator is in HBI)



HIGHER DEGREE RESEARCH

Load

237*

Equivalent Full-Time Student Load (EFTSL)

Completions

68*

(based on best available data)

RESEARCH OUTPUTS

Percentage of research outputs with international collaborators

2020–24

65.1%

TOP COLLABORATING INSTITUTIONS

2020–24

University of Western Australia
United Arab Emirates University
Zagazig University
CSIRO
University of Melbourne
Statens Serum Institut
Curtin University
University of Queensland
University of Sydney
University of Tehran

* Supervised by staff who identify as HBI affiliated

Our Research



Plating metals samples in the lab.
Photo Dannon Wu, HBI



Centre for
Water, Energy and Waste 12



Centre for
Terrestrial Ecosystem Science and Sustainability 18



Centre for
Sustainable Aquatic Ecosystems 26



Centre for
Biosecurity and One Health 32

Centre for **Water, Energy and Waste**

Associate Professor John Ruprecht
Director

About the Centre

Supplies of water and energy are fundamental to modern life, as is the management of waste. The Centre for Water, Energy and Waste conducts research in these three related areas, ensuring human endeavours can coexist with biodiversity and sensitive ecosystems.



Seaweed might not be the answer to reducing methane from cows

Grazing cattle produce some of the highest methane emissions in the world and researchers have been tasked with addressing the issue on a global scale. One of the solutions proposed is adding macroalgae (seaweed), such as *Asparagopsis*, to cattle feed to reduce the amount of methane cows produce when they digest it.

Centre for **Water, Energy and Waste**	
Focus	Seaweed-Assisted Bioremediation
Lead	Prof Navid Moheimani
Location	Murdoch



This solution has been heavily funded around the world and is touted as a feasible solution to the problem. While trials have shown that *Asparagopsis* can reduce up to 98 per cent of methane emissions from cattle, a Murdoch University research review indicates that it poses potentially serious threats to cows in its current state.

PhD candidate Ben Camer-Pesci was first drawn to this research by his concern for the natural environment, with *Asparagopsis* appearing to be a promising solution. However, once data collection began, Mr Camer-Pesci discovered some concerning statistics.

"Upon reading further into the trials that had taken place, it became clear that the proposed technology was nowhere near a stage where it could be safely implemented," he said.

"The motivation for this paper was driven by an urge to paint a clear picture of the current scientific standings of the technology, and to share this perspective with others."



Ben Camer-Pesci
Photo Dannon Wu, HBI

During trials, there was evidence of ulceration, haemorrhaging and inflammation in cows' stomachs. Cows would refuse feed with higher *Asparagopsis* concentrations, or selectively avoid the *Asparagopsis*. In addition to this, milk production decreased and the milk that was being produced had higher levels of the chemical bromoform. Levels of bromoform remained under the maximum human intake with minimal exposure, and there was no evidence to suggest that the use of *Asparagopsis* could lead to concentrated human exposure. However, the review states that potential concentrated human exposure during processing of *Asparagopsis* biomass must be taken into consideration moving forward. Highly concentrated exposure to bromoform could lead to the slowing down of brain function and injury to the liver and kidney to both animals and humans.

Mr Camer-Pesci said that while *Asparagopsis* showed promise in reducing methane emissions, there had to be serious research and consideration before additional efforts and funding.

"I hope that research groups around the world will be able to work together to tackle the problems highlighted by the paper to clearly conclude whether or not this technology is worth further investment."
Mr Camer-Pesci collaborated with researchers from the Algae R&D Centre throughout this project, including Professor Navid Moheimani, Associate Professor Mike van Keulen, Dr Damian Laird and Dr Ashiwin Vadiveloo.

This research supports the United Nations Sustainable Development Goal **12** and **13**.



WaterSmart Farms Desalination Project

The WaterSmart Farms Desalination project funded by Department of Primary Industries and Regional Development (DPIRD) and the Water Corporation is supporting circular agronomics for farmers through the roll-out of on-farm reverse osmosis desalinisation plants. The plants are a farm-scale version of the technology used to desalinate ocean water to supplement Perth's water supply. They process brackish groundwater into a suitable resource for livestock, crop agronomy and other agribusiness activities.

Centre for **Water, Energy and Waste**	
Focus	Watersmart Farms
Lead	A/Prof John Ruprecht
Location	Wheatbelt, WA



HBI researchers, in partnership with the DPIRD and the Water Corporation are investigating optimal on-farm desalinisation technology and its application in the Wheatbelt of Western Australia.

The process of on-farm desalination involves installing a desalination unit, which comprises a tank, pump and reverse-osmosis processor. The desal units are powered by electricity from the grid, a generator, solar panels or hybrid systems. The brackish water is fed through a bore into the processor, producing fresh water and hypersaline reject water. The desalinated water produced is used mainly for crop spraying, livestock, gardening, household use and feedlot demands. The reject water is mostly disposed of through reinjection, evaporation basins, surface water disposal and holding dams.



On-farm desalination unit.
Photo A/P John Ruprecht, HBI MU

Murdoch University is leading research into optimising the uptake, efficiency and sustainability of on-farm desalination in WA.

Farm Scale Desalination

Researchers have assessed 31 farms sites across the WA Wheatbelt region to evaluate the technology, economics and systems, and options for the disposal of reverse osmosis (RO) reject water. They have explored factors such as reasons for using desalination, methods of application, as well as practical factors such as costs, operation and maintenance.

While the assessment is only, preliminary results have uncovered serval key findings:

- desalinated water is being used mainly for crop spraying, livestock, gardening, household use and feedlot demands.
- Disposal of reject water is mostly through reinjection, evaporation basins, surface water disposal and holding dams.
- Power sources for desalination ranged from grid, generator, solar or hybrid systems.

These findings reveal many opportunities for optimising the efficiency and sustainability of the process.

Community Desalination

Desalination has also been implemented at a community scale to address the freshwater needs of communities in regional WA. Community desalination has three main objectives:

1. Focus on operation and maintenance costs, as well as reliability for two to three years continuous operation;
2. Determine the technical, economic and environmental viability for community uptake;
3. Engage Shires, agri-business, community, and surrounding stakeholders to build knowledge and local capability.

To date, four community desalination units have been installed in the south-west of WA. These are located in Merredin, Dumbleyung, Katanning and Wongutha/CAPS.

The **Merredin** system has produced over 6.9 ML, from January 2024 to May 2025 (17 months), producing on average around 95kL per week, depending on time of year. The desalination unit converts feed water of on average 20,000 mg/L TDS to a permeate salinity of below 100 mg/L TDS. Brine is disposed of in an evaporation basin.

The **Dumbleyung** system, production ranges from 4.7 to 10kL/day when operating from approximately 18,000 mg/L TDS feed water. Brine from this unit is also disposed via an evaporation basin.

The **Katanning** system is more efficient still, running at about 44% water recovery. It produces on average 24kL/day when operating from 9,000 mg/L TDS feed water. This system also disposes its brine via an evaporation basin.

The **Wongutha/CAPS** system is located near the Wongutha Christian Aboriginal Parent-Directed School and provides a consistent source of fresh water to the school community. This system is the most efficient, running at over 60% water recovery. It produces around 17 kL/day when operating from 6,400 mg/L TDS feed water. The desalination unit is powered by a solar system and the brine is disposed through a combination of saltbush irrigation and groundwater re-injection.

Evaporation dam.
Photo A/P John Ruprecht, HBI MU



WaterSmart Farms Desalination Project *(cont.)*

Reject Water Management

Additional research is underway which focuses on the rejected brine and what is currently being done to dispose of that water. The research has two main focuses, the first being the current situation and how the reject water is being disposed of, and the second will identify potential improvements to ensure the effects of the environment are kept to a minimum.

Currently, there are four main options for disposing of brine water:

1. Brine disposal — discharging to evaporation basins, dams, surface water systems or reinjecting to groundwater.
2. Brine minimisation — increasing overall system recovery and minimising the volume of brine requiring disposal.
3. Zero liquid discharge — reducing liquid discharge to zero.
4. Beneficial use of brine. Beneficial uses can include lithium extraction, metals mining, aquaculture (e.g., brine shrimp, algae, tilapia), and halophytes for animal feed, erosion control.

While evaporation dams are used for both community and on-farm desal, they have the greatest environmental footprint of all of the desal methods. More work can be done to increase the efficiency of desal systems, thereby reducing the overall volume of brine being produced. We are also working with researchers in lithium extraction and metals mining to investigate the practical use of brine in those processes. We look for forward to continuing this important research and sharing further results with scientific and agricultural communities.

For more information contact Professor John Ruprecht, **john.ruprecht@murdoch.edu.au**



This research supports the United Nations Sustainable Development Goals **6**, **9**, **11**, and **12**.



FJH tech.
Photo Jeff Fitlow, Rice University

Flash Joule Heating technology brings new sustainable resource recovery opportunities

The Harry Butler Institute is playing a central role in advancing Flash Joule Heating (FJH) technology to enable sustainable and eco-friendly metal recovery from both traditional ores and electronic waste. This cutting-edge method offers a transformative alternative to conventional extraction techniques by using intense, rapid electric pulses to release valuable metals without the use of toxic chemicals or high energy consumption.

Centre for
Terrestrial Ecosystem Science and Sustainability

Focus	Sustainable Resource Recovery
Lead	Prof Aleks Nikoloski
Location	Murdoch, WA





In partnership with MTM Critical Metals, which holds exclusive global rights to FJH technology developed by Professor James Tour at Rice University, HBI researchers are working to optimise the technique for the recovery of critical metals such as rare earth elements, nickel, cobalt, and lithium. The collaboration has been formalised through a Memorandum of Understanding and aims to adapt the FJH process for use in Australian mining and urban recycling contexts. Notably, FJH uses between 80 to 500 times less energy than traditional smelting methods, produces results within seconds, and avoids the environmental hazards associated with chemical leaching or prolonged high-temperature processing.

HBI's extractive metallurgy team is refining the application of FJH to meet the unique challenges of local materials, including lithium-bearing spodumene from Western Australia and precious metals like gold, silver, and palladium from e-waste. In addition to recovering valuable resources, the technology also offers a solution for toxic metal removal. FJH can vaporise hazardous elements such as arsenic, mercury, and lead, rendering the remaining material safe for uses such as agriculture—lead levels in treated residue, for example, fall below 0.05 ppm.

A key focus of the project is its contribution to the circular economy. HBI is actively pursuing e-waste recycling as a solution to the global crisis of more than 60 million tonnes of discarded electronics generated each year. Urban mining pilot projects in Western Australia have already achieved promising gold recovery rates, with early tests showing yields of approximately 70 per cent.

Beyond technical research, HBI is also working to shape industry and policy outcomes. In collaboration with the Alcoa Foundation, the Institute is exploring how FJH might be applied to recover valuable metals from bauxite residue—commonly known as red mud—a major waste stream from aluminium production. This aligns with Western Australia's broader critical minerals strategy. HBI researchers are also engaging with the Department of Water and Environmental Regulation (DWER) and the Environmental Protection Authority (EPA) to develop regulatory frameworks that support the responsible adoption of FJH technologies.

Looking ahead, the next phase includes scaling up the process for commercial deployment. A prototype FJH pilot plant is currently under testing in Western Australia.

Research is also expanding into next-generation methods such as "Flash-within-Flash" (FWF) Joule Heating, a technique being developed at Rice University that enables the production of high-purity solid-state materials.

The Murdoch-MTM partnership positions Western Australia at the forefront of sustainable resource recovery. As global demand for critical minerals grows and pressure mounts to reduce the environmental footprint of mining, Flash Joule Heating offers a breakthrough technology. With HBI's leadership, this innovation has the potential to unlock untapped value in e-waste and mining tailings while delivering significant environmental and economic benefits.

This research supports the United Nations Sustainable Development Goals **11**, **12** and **17**.



Centre for Terrestrial Ecosystem Science and Sustainability

Professor Trish Fleming
Director

About the Centre

The Centre represents a collaboration of academic research staff working with community, industry and management partners towards a shared vision of maintaining sustainable and biodiverse ecosystems through scientific excellence.

This centre captures the outputs of 43 academic staff and over 100 current HDR students, with a shared vision to carry out robust science underpinning biodiversity conservation.

Our research strengths — in wildlife, plants and processes — are applied to ecosystems influenced by urbanisation, extraction industries, and primary production. Underpinning this research is our cross-cutting research themes, strong education linkage, and substantial industry and community engagement.



Slender green tree frog.
Photo Kat Sambrooks, HBI



Dr Ali Babington installing a woody meadow verge.
Photo Murdoch University

Perth's perfect verge is a woody meadow

Environmental researchers have surveyed almost 1000 Perth residents to identify what the perfect verge looks like, as part of a project looking at how we can improve urban greening.

Centre for
Terrestrial Ecosystem Science and Sustainability

Focus	Urban Greening
Lead	Prof Rachel Standish
Location	Perth, WA



"The land along streets and roads can make up more than 30% of public open space, which offers huge opportunity to increase the quality of greening without increasing land use," Dr Ali Babington said, who led the research as part of her PhD on The Woody Meadow Project.

Survey respondents were asked to rate a range of images to understand preference for structure — low, mid or high vegetation — flower presence, foliage colour, and visual symmetry.

"We found that 88% of respondents like the appearance of Woody Meadows, and a comparison lawn picture was disliked by 87%."

Woody Meadows are structurally diverse and species-rich naturalistic plantings of Australian shrubs and trees.

"The Woody Meadow Project aims to rejuvenate underutilised spaces in urban areas with this type of planting. They are maintained through coppicing, which involves hard pruning 10cm to 20cm above ground level every couple of years to keep the plantings bushy and maximise flowering. This approach to greening our verges offers a novel and cost-effective way to introduce quality plantings into our urban landscape for social and environmental benefits," Dr Ali Babington said.

Perth's perfect verge is a woody meadow *(cont.)*

"We have incredible flora around us that does well in urban areas. If these plants are used in high density with high species richness, we minimise the risk of failure whilst reaping the rewards of integrating more diverse local plantings into our lives."

The research found the most preferred Woody Meadows featured a range of plant heights, flowers, and a mix of green and grey foliage. Another focus of the research has been to trial plants from around Perth and Geraldton in a Woody Meadow. All plants have responded well to coppicing, and plants from Geraldton had the best survival.

"We hope this research will inform future urban landscape design and planning and encourage practitioners to have fun and be experimental in their planting choices, especially with local Western Australian plant species."

Urban vegetation provides a range of social and environmental benefits, but it can be difficult due to the space restrictions and cost. Naturalistic plantings have gained popularity as a way to improve vegetation diversity without requiring additional land or maintenance costs — this research aims to further that effort.

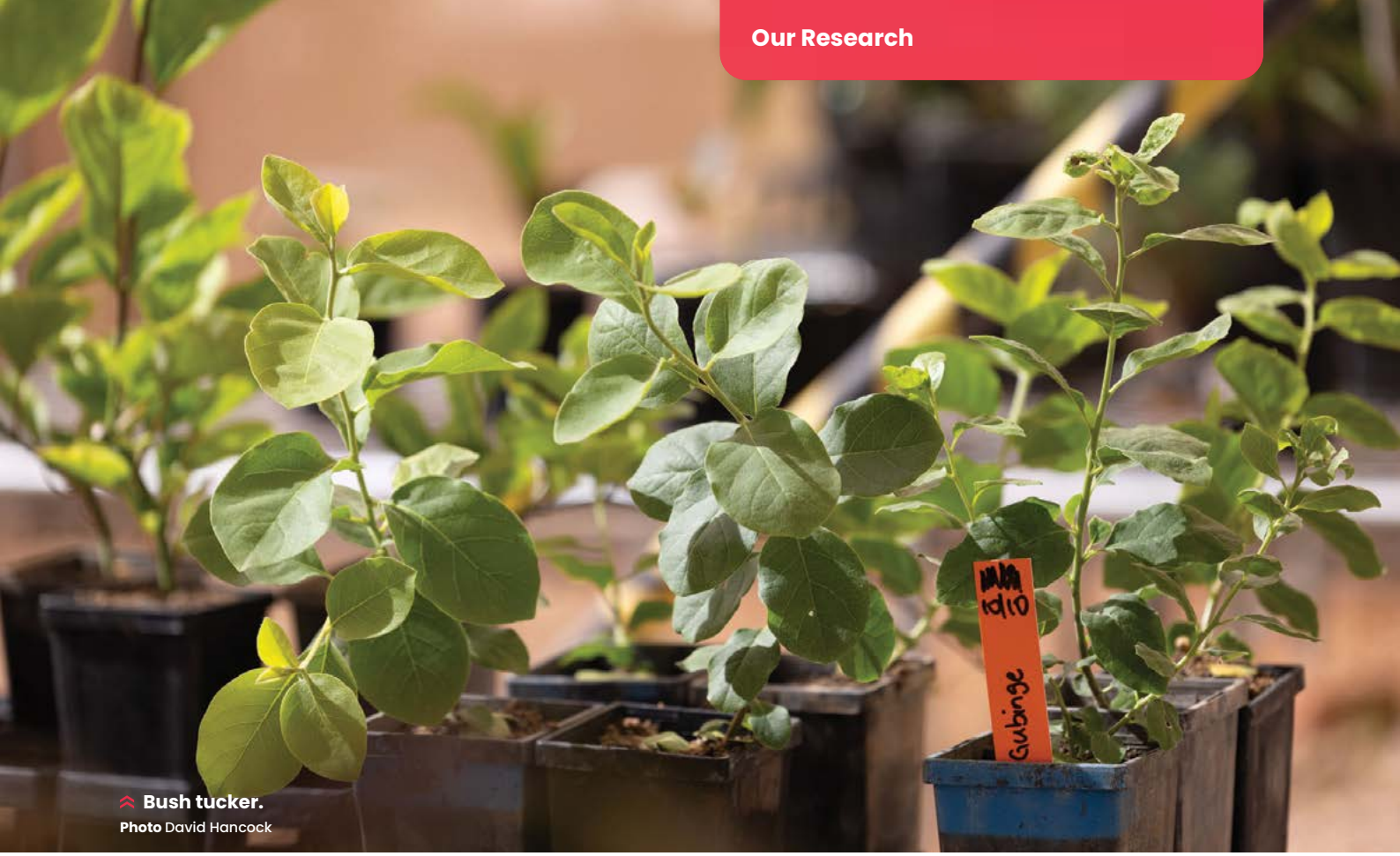
"Integrating local vegetation back into our urban landscapes has huge benefits for biodiversity, temperature regulation, stormwater management, our health and wellbeing — the list goes on and on," Dr Babington said.

"Importantly for me, it's about creating a landscape that celebrates our local flora, with a unique sense of place, that offers people the opportunity to connect with country and nature in their everyday lives."



Dr Ali Babington completed this work as a PhD candidate at the School of Environmental and Conservation Sciences.

This research supports the United Nations Sustainable Development Goals **11**, **13** and **15**.



Bush tucker.
Photo David Hancock

How bushtucker and biodiversity are bringing life back to the land

Murdoch University students and scientists are working with local landowners in novel ways to protect and revive our unique ecosystems.

Centre for
Terrestrial Ecosystem Science and Sustainability

Focus	Biodiverse Carbon Farming
Lead	Prof Rachel Standish
Location	Perth & Broome, WA



"Around the world we're seeing plant and animal species disappearing. At the same time, there is an urgent need to mitigate global climate change," Professor Rachel Standish said.

"Carbon farming offers the opportunity to address both these challenges."

Professor Standish is motivated to improve the design and management of carbon projects to maximise carbon credits and — crucially — their co-benefits.

Her research is informing the development of the emerging carbon market in Western Australia and contributing to conservation of our unique biological diversity.

"The common assumption from the carbon industry is that it's better to plant monocultures — single species of eucalypts for example — because that's an easy way to store lots of carbon." Professor Standish is challenging that assumption because it ignores the co-benefits of diverse plantations.

"If you put lots of different tree species in, you create structure, more habitat for wildlife and the associated co-benefits. And that's increasingly what the voluntary carbon market is targeting," she said.

Given there is little data on the co-benefits of different approaches to carbon farming, the team is filling the information gap to show how biodiverse projects can deliver more than just carbon capture. "You've got the carbon and then what else do you get? Do you get pollinators visiting? Is there the potential for honey production? Do you get wildlife using the projects as corridors to move through the landscape? These are the questions we're answering," Professor Standish said.

How bushtucker and biodiversity are bringing life back to the land *(cont.)*





Carbon farming on country.
Photo Prof Rachel Standish, HBI

"We can also use these carbon projects to link up bushland remnants so species can spread and establish themselves easier," Professor Standish said.

The early signs of wildlife are positive, with Professor Standish recording a mallee fowl — a bird that is highly particular about where it lives — in one of the projects she has established in the southwest.

"To see this bird interested in a habitat that's been constructed is amazing. An encouraging sign for future projects."

From the south-west to the far north of Western Australia, Murdoch University scientists and students are bringing biodiversity back with co-benefits that go far beyond carbon capture. The gains spread across ecosystems, cultures and even economies.

PhD student Sara Cavalcanti Marques has been working in Broome where bushtucker has been identified as a potential contributor to restoring ecosystems around Australia, while providing on-Country employment opportunities for Indigenous communities. Partnering with Traditional Landowners and North Regional TAFE in Broome, Ms Cavalcanti Marques is developing a training program to implement bushtucker cultivation.

The chosen focus species for the project's Broome location was the Gubinge, also known as the Kakadu Plum. "We've chosen Gubinge as the key species due to its immense economic potential," Ms Cavalcanti Marques said.

"It holds the highest concentration of Vitamin C, is sought after worldwide and has cultural importance locally."

Her project takes a two-pronged approach, delivering both positive environmental benefits through revegetation while also addressing rapidly growing demand for Australian native bush foods and medicines. It also provides a platform for upskilling Aboriginal Rangers in research and continuing their legacy of caring for Country.

"The demand for Australian native bush foods and medicines is steadily expanding, and with it, the demand for sustainable models of cultivation that address the substantial gap in Indigenous leadership and participation in the sector.

"It's another wonderful example of how land restoration can not only reverse the creeping tide of biodiversity loss but benefit the people and places around it.

Professor Standish believes this is the type of big-picture approach required to overcome the challenge before us.

"As Australia, like many other nations, sets ambitious restoration targets to protect 30% of land and sea by 2030, we will need to experiment, innovate and work alongside Traditional Owners," Professor Standish said.

"And we certainly plan to be there for the long term." Sara Cavalcanti Marques has been undertaking this work as a PhD candidate at the School of Environmental and Conservation Sciences."

This research supports the United Nations Sustainable Development Goals **11**, **13** and **15**.





Bush tucker.
Photo Prof Rachel Standish, HBI



Natalie Grassi analysing fox stomach contents.
Photo Murdoch University

New insights into the diets of foxes

A project founded in citizen science and community engagement is gleaning new insights into the diets of the invasive red fox.

Centre for **Terrestrial Ecosystem Science and Sustainability**	
Focus	Invasive predator diets
Lead	Prof Trish Fleming
Location	South-western Australia



The North Stirling Pallinup Natural Resources' (NSPNR) Feral Animal Tally is a community event based in one of the state's most ecologically significant areas, bringing the community together to tackle pest species such as foxes, cats and rabbits. As part of the event, teams of local volunteers competed to cull as many pest animals as they could, resulting in 110 foxes, 9 feral cats and 20 rabbits removed from the environment.

Murdoch University PhD candidate, Natalie Grassi, joined volunteers in Yongergnow to investigate the culled foxes and cats, and gain insights into their diet. Natalie's PhD research focuses on the dietary ecology of invasive red foxes (*Vulpes vulpes*) in Western Australia. She is particularly examining age-based dietary differences and their ecological impacts.

Her research aimed to investigate the diets of two invasive predators — the red fox and feral cat — in the Fitz-Stirling and surrounds. Her primary goals were to identify which native species are being predated, assess the potential for supplementing predator diets with anthropogenic food sources, and to evaluate the degree of dietary overlap between cats and foxes. These insights are essential for informing conservation strategies and guiding targeted predator control efforts.

New insights into the diets of foxes *(cont.)*

To date, Natalie has analysed a total of 151 predator stomachs (76 foxes and 75 cats). From those stomachs, 31 different prey species have been identified, including only four introduced species (cat, sheep, house mouse, and rabbit).





Natalie Grassi processing a culled fox in the field.
Photo Murdoch University



While results are still being finalised for publication, preliminary findings suggest that both predators consume a greater proportion of native than introduced prey. Fox diet comprised mostly kangaroo, sheep, canola, and earwigs; whereas cat diet comprised mostly native mammals, such as pygmy possum and native rodents, as well as house mice, rabbit, and birds. Interestingly, there appeared to be minimal dietary overlap between foxes and cats. This is likely due to differing foraging strategies, as foxes tend to exploit carrion and anthropogenic resources like crop fields and livestock, while cats rely more heavily on hunting live native prey.

Ongoing analysis will investigate how predator diets vary depending on different surrounding habitat types, including remnant vegetation, revegetation efforts, and farmland. This research will ultimately help identify where native species are most at risk and inform the most effective locations and methods for predator control. By combining rigorous ecological research with active community involvement, this project highlights the critical role of citizen science in supporting biodiversity conservation in fragmented landscapes.

This research supports the United Nations Sustainable Development Goal **15**.

Centre for **Sustainable Aquatic Ecosystems**

Professor Alan Lymbery (outgoing) and Professor Stephen Beatty (incoming)
Directors

About the Centre

Our vision is for healthy, biodiverse and productive aquatic ecosystems supporting vibrant societies in Australia and the Indo-Pacific region.

Our mission is to provide, through discovery and innovation, adaptive and lasting solutions for protecting the health of aquatic ecosystems that underpin our economy and society.

Healthy freshwater, estuarine and marine ecosystems underpin economic development and provide social and recreational values for communities in Australia and throughout the world.



Whale shark.



Fresh water marron.
Photo Dr Steve Beatty, HBI

Building ecosystem resilience with fire water points

With catastrophic weather events and bushfires increasing in prevalence, our threatened species are at risk of displacement and extinction. Researchers from HBI's Centre for Sustainable Aquatic Ecosystems are leading a new project addressing both the wellbeing of Australia's aquatic ecosystems and firefighting solutions amid dryer and hotter conditions.

Centre for **Sustainable Aquatic Ecosystems**	
Focus	Fire Water Points
Lead	Dr Stephen Beatty
Location	South-western Australia



As rainfall, streamflow and groundwater levels decline in Australia's south, there is a renewed need for access to water points, particularly in remote bushland areas. To address the issue, a network of fire water points was built in bushland across Australia, providing a water source for fire crews and emergency services.

Over time, these water points have become a refuge for aquatic animals, which previously relied on natural waterholes to survive the summer. Project lead Dr Stephen Beatty believes these fire points potentially hold the key to safeguarding the future of aquatic ecosystems in Australia's south as the climate warms and dries.

"Over many years of surveying aquatic fauna, we discovered that fire water points attract and sustain life in much the same way as natural refuge pools, effectively mimicking the ecological function of those vital habitats," Dr Beatty said.

"Fire water points will become increasingly important not only for mitigating the growing threat of bushfires but also for their value as climate refugia for native freshwater biodiversity."

Post-doctoral fellow Dr Mark Allen who is managing the collaborative project said the study would determine how and where new fire water points should be constructed. Dr Allen said this, in turn, is "helping combat the growing threat of bushfires while also providing additional climate refuges for native biodiversity".

More than 100 water points are being surveyed for aquatic and terrestrial flora and fauna throughout the project across the Warren Bioregion on Noongar Boodjar in WA's south-west, a globally recognised hotspot for at-risk species.

Building ecosystem resilience with fire water points *(cont.)*

A key component of the project is the engagement of communities surrounding these freshwater systems. One of the ways the team has sought to engage the community of Walpole has been through their participation in the Walpole Wilderness BioBlitz. They joined participants for the community-powered biodiversity survey, helping to sample and identify species inhabiting Walpole's freshwater ecosystems. The group recovered a number of different species, but the highlight was a rare Pouched Lamprey — jawless, eel-like fishes which have remained relatively unchanged since the Jurassic period. The recovery of this species reinforced to the project team and the community what the project is seeking to conserve through fire water points.

The project, funded by the Ian Potter Foundation, is a collaboration between scientists and students from Murdoch University, The University of Western Australia and Deakin University in partnership with Traditional Custodians and citizen scientists will work alongside the Department of Biodiversity, Conservation and Attractions, the Department of Primary Industries and Regional Development and the Department of Water and Environmental Regulation to gather data.

For more information on the project visit www.firewaterpoints.net.au

This research supports the United Nations Sustainable Development Goals **13**, **14** and **17**.



Sawfish, Ashburton River.
Photo Prof Alan Lymbery, HBI

Genetic techniques reveal endangered sawfish family tree

Researchers from Murdoch University's Harry Butler Institute have employed the latest genetic techniques to uncover critical breeding and reproductive knowledge about one of the world's most threatened marine animals — the sawfish.

Centre for **Sustainable Aquatic Ecosystems**

Focus	Green sawfish
Lead	Dr David Morgan
Location	Ashburton River, WA



Research fellows Dr Jack Ingelbrecht and Dr David Morgan led a team from the Centre for Sustainable Aquatic Ecosystems as they reconstructed a series of family trees for green sawfish in WA's Ashburton River.



Dr Ingelbrecht said one of the biggest barriers in sawfish conservation was how little is known about breeding populations — with this research bridging a critical gap. Using DNA collected over a 10-year period, researchers discovered that more than 50 female green sawfish had given birth in the Ashburton River estuary or nearby tidal creeks between 2011 and 2022. They further identified that nine of these female sawfish used the area as a birth site on multiple occasions.

With sawfish believed to be extinct in nearly two dozen countries, and populations continuing to decline, Dr Ingelbrecht said these research findings would aid conservation work.

"These findings are important for informing conservation efforts, as they demonstrate that some female green sawfish are actually returning to, and reusing, the same site for pupping," Dr Ingelbrecht said.

"This suggests that conservation efforts for green sawfish could be more effective if targeted towards protecting key waterways like the Ashburton River."

Chevron Australia provided funding support for the project and the Chevron Australia Sea Rangers, who play a key role in assisting Chevron with protecting the local environment, assisted with the monitoring program, bringing valuable Indigenous Knowledges regarding best practices for monitoring waterways on Country.

The green sawfish is one of the largest fishes on the planet, known to grow longer than six metres, and it is critically endangered, making the timing of this project pertinent. Dr Ingelbrecht's study identified some 90 half-sibling pairs, including high proportions of both maternal and paternal half-siblings. This provided clarity on what Dr Ingelbrecht refers to as 'sex-biased dispersal'.

"This is where individuals of one sex are more prone to returning to their birthplace for reproduction, whereas members of the opposite sex are prone to disperse. The presence of so many maternal and paternal half-siblings suggests that dispersal is limited in both female and male green sawfish."

While Dr Ingelbrecht said it did not prevent the possibility of individuals moving long distances, the findings showed an elevated risk of localised extinction for the species, due to depleted populations of green sawfish being unlikely to be replenished from elsewhere over short time scales.

Dr Ingelbrecht said he and the research team hoped the research would contribute to more effective species management for green sawfish, as well as leading to similar studies of other sawfish species with similar data deficiencies.

For more information, read the study here. Learn more about the world-changing research coming out of the Centre for Sustainable Aquatic Systems.



Researchers capturing green sawfish in the Ashburton River.
Photo HBI Murdoch University

This research supports the United Nations Sustainable Development Goals **13**, **14** and **17**.





Whale shark.
Photo Dr Alan Lymbery, HBI

Climate change exposes whale sharks to greater risk

The habitats of whale sharks are moving due to climate change, leading to increased and dangerous overlap with global shipping routes.

Centre for **Sustainable Aquatic Ecosystems**	
Focus	Whale sharks
Lead	Dr Brad Norman
Location	North-western Australia



A new study, published in *Nature Climate Change*, used global climate models and long-term satellite-tracking data to find that climate change is causing shifts in animal habitats, including those of threatened marine species like the whale shark, the world's largest fish.

Dr Samantha Reynolds and Dr Brad Norman, both Research Fellows from Murdoch University's Harry Butler Institute and co-authors on this publication, said that the study projects that core habitat areas for whale sharks could shrink substantially leading to an even bigger shift.

"The study projects that by 2100, core habitat areas for whale sharks could shrink by more than 50% in some national waters, with the species moving over 1,000 kilometres from their current locations," Dr Reynolds said.

"This shift is expected to increase the presence of whale sharks in areas with heavy shipping traffic, raising the risk of collisions. Under high emissions scenarios, this risk could be over 15,000 times greater compared to a sustainable development scenario.

"These findings highlight the urgent need for climate-threat predictions in conservation efforts to protect endangered marine species from increased exposure to human threats." The large global study involved experts from countries including Australia, the United Kingdom, USA, Qatar, Mexico, Madagascar, Brazil, Colombia.

The full paper 'Climate-driven global redistribution of an ocean giant predicts increased threat from shipping' is available in Nature Climate Change.

This research supports the United Nations Sustainable Development Goals **13**, **14** and **17**.



Citizen scientists helping to monitor water health with cybernetic mussels

In partnership with the Alcoa Foundation and the Department of Water and Environmental Regulation, our researchers are activating the community to help monitor the health of our waterways using cybernetic mussels.

Centre for **Sustainable Aquatic Ecosystems**

Focus	Cybernetic mussels
Lead	Dr Alan Cottingham
Location	Peel-Harvey Region, WA



The groundbreaking citizen science initiative uses cybernetically-enhanced mussels to monitor the health of Western Australia's waterways, providing an early warning system for fish kill events. The project engages local communities and Indigenous land carers to take part in real-time environmental monitoring to safeguard aquatic ecosystems.

At the heart of the project are hundreds of native mussels fitted with sensors which detect when the bivalves close their shells—a natural stress response to pollutants, changes in temperature, or declining oxygen levels. These sensors stream data in real time, acting as an early warning system for potential ecological crises such as fish kills and toxic algal blooms. The network currently includes six monitoring stations across the Peel and upper South West regions, with locations at Mandurah Marina, the Murray and Serpentine Rivers, Lane Poole Reserve, Harvey Dam, and Waroona Dam.

The project places a strong emphasis on community involvement. Bindjareb Noongar rangers play a key role in data collection, contributing traditional ecological knowledge to complement scientific analysis.

Students from local schools, particularly those located near the Peel-Harvey Estuary, are also engaged in the program. They are trained to interpret the mussel sensor data and identify anomalies, making them active participants in environmental protection.

Under the leadership of Dr Alan Cottingham, the project aims to pinpoint the causes of mass mortality events in fish and reduce the frequency of such ecological disasters through early intervention. The collaboration with DWER ensures that findings can inform regulatory decisions and prompt timely action. The support from the Alcoa Foundation not only funds sensor deployment and training programs, but also sets the stage for potential expansion. With growing interest in scalable solutions for water quality crises, the cybernetic mussel model could be adapted for use in other regions around the world.

This initiative is particularly timely as Western Australia's south-west faces increasing pressure from climate-driven drought, which is contributing to severe water stress and biodiversity loss. The Peel-Harvey Estuary, a vital habitat for endangered species and an important resource for commercial fisheries, stands to benefit significantly from this integrated approach to environmental monitoring and stewardship.



Dr Alan Cottingham and school students with one of the mussel stations.
Photo Dannon Wu, HBI

This research supports the United Nations Sustainable Development Goals **13**, **14** and **17**.



Centre for **Biosecurity and One Health**

Professor Sam Abraham
Director

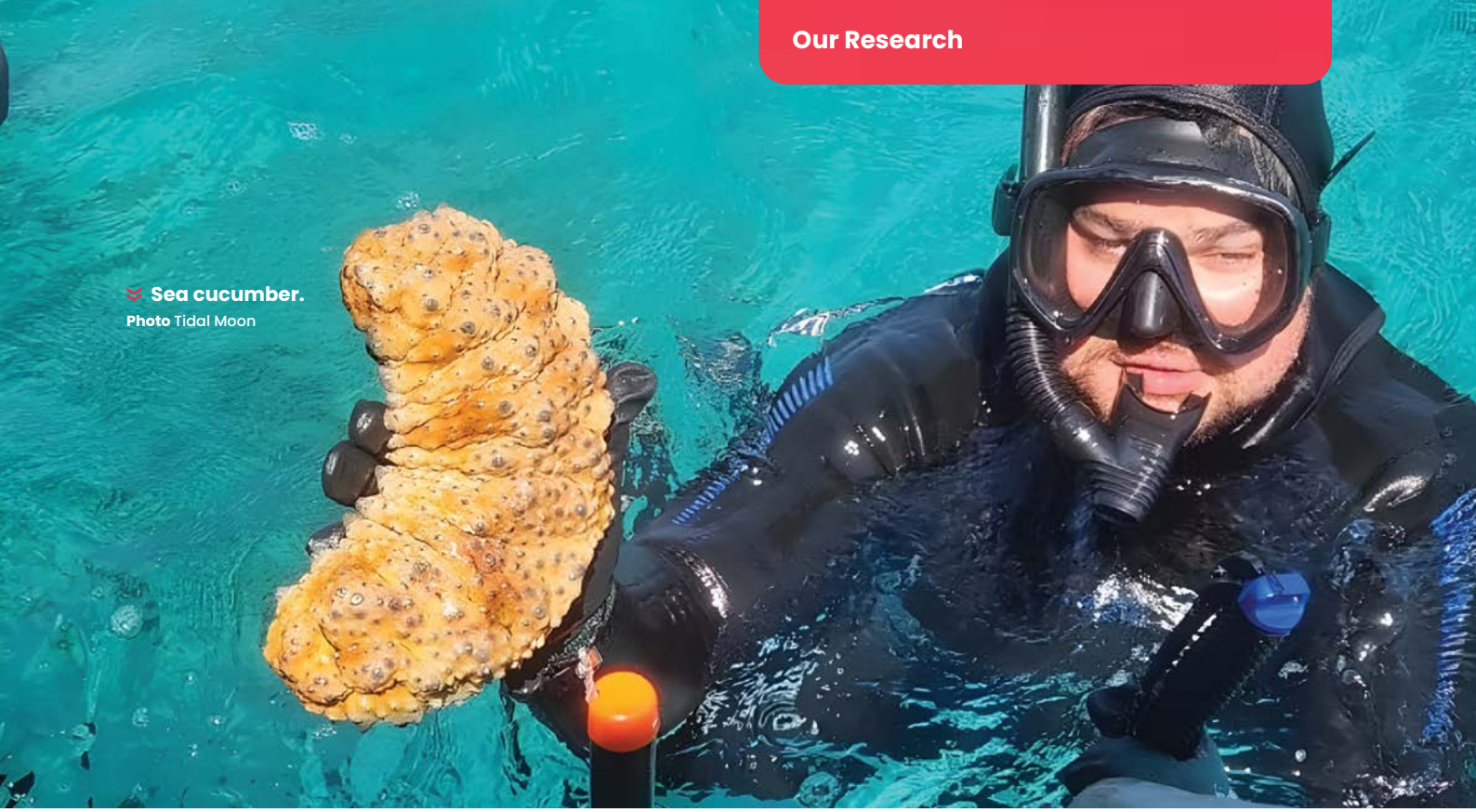
About the Centre

The Centre for Biosecurity and One Health recognises the linkages between health, biosecurity and the environment.

It comprises research across themes including One Health, antimicrobial resistance, biosecurity of environmental and production systems, vector and water-borne diseases, epidemiology, food safety and zoonotic diseases. Policy, legislation and social science perspectives for each of these areas are a feature of our research outputs, with a transdisciplinary approach taken to address complex problems that relate to the health of animals, wildlife, plants, humans and eco-systems.



Prof Sam Abraham with culture plate.
Photo Murdoch University



Sea cucumber.
Photo Tidal Moon

Bringing back Australia's first export: The sea cucumber

A new partnership has been struck with Indigenous-owned business Tidal Moon to realise the full potential of WA's sea cucumbers.

Centre for **Biosecurity and One Health**

Focus	Sea cucumbers
Lead	Prof Sam Abraham; Prof Navid Moheimani
Location	Denham, WA



"Australia's first export was trade of sea cucumbers and our goal is to preserve and enhance our heritage while creating a business that will last for years to come," Michael Wear, Malgana Traditional Owner and founder of Tidal Moon said.

"To do that we need to understand the full scope of opportunities this amazing animal presents — medical, nutritional, cultural — and how we can cultivate them onshore."

Tidal Moon is partnering with Murdoch for scientific and cultural expertise to develop that knowledge, which will underpin a sea cucumber cultivation and processing facility based at Denham, Western Australia.

"We have an amazing location at Shark Bay — a world heritage area with 30,000 years of knowledge that presents us with this incredible opportunity for education, economic development and community building," Mr Wear said.

This partnership is about realising that opportunity and seeing how big it can be.

Sea cucumbers have soft, cylindrical bodies and are found on the sea floor. They play a critical role in cycling the nutrients that maintain seagrass meadows and are sought after in Asian cuisine. Emerging research suggests there may also be compounds made by sea cucumbers that are helpful in treating cancer.

Tidal Moon's research partnership with Murdoch aims to better understand the range of ecosystem roles, health and consumer benefits they provide, as well as the best way to bring cultivation onshore.

On signing the partnership agreement with Tidal Moon, Vice Chancellor Professor Andrew Deeks said the business presented a strong alignment with the University's values.

Bringing back Australia's first export: The sea cucumber *(cont.)*

"The vision of Tidal Moon to build Indigenous capabilities, preserve the local ecosystem and develop an enterprise for generations to come is one that we wholeheartedly support," said Professor Andrew Deeks.

"To bring to bear the full range of Murdoch University expertise to realise this, across conservation, culture, health and food, presents an exciting partnership."

Since its launch, Tidal Moon has trained 12 Malgana Traditional Owners in dive operations to harvest sea cucumbers from the ocean floor. Moving the operation onshore will allow this workforce to grow significantly. The work with Murdoch to achieve this is now underway with our leading algae research and One Health groups. Under the leadership of Professor Navid Moheimani, Murdoch is working with the Tidal Moon team to develop and integrate algal waste-to-profit processes with Professor Navid Moheimani looking at opportunities with land-based sea cucumber aquaculture. This environmentally sustainable approach is expected to provide significant benefits to the Shark Bay industry.

Professor Sam Abraham, who leads the Harry Butler Institute's Centre for Biosecurity and One Health, is developing a biochemical profile on the sea cucumber which could open significant health research opportunities. The Ngangk Yira Institute for Change is planning to explore the cultural and health significance from an Indigenous perspective too, while Kulbardi Aboriginal Centre looks at the education opportunities for First Nations students. This work is all part of progressing Mr Wear's legacy. "When you go, the only thing you leave is your knowledge. I want to leave as much of that as possible," he said.

This research supports the United Nations Sustainable Development Goals **13**, **14** and **17**.



Supporting international collaboration to manage invasive PSHB

Increasing concern over an infestation of Polyphagous Shothole Borer began to spread rapidly in 2024, as did concern from the scientific and general community over the impact of this disease.

Centre for **Biosecurity and One Health**

Focus	Polyphagous shot-hole borer
Location	Murdoch, WA



An international expert has shed light on the destructive plant disease 'polyphagous shot-hole borer' (PSHB) at a public lecture held at Murdoch University in September. Dr Shannon Lynch, an Assistant Professor from the University of California, has unique knowledge about the disease, which is caused by the invasive ambrosia beetle (*Euwallacea fornicatus*) and fungus (*Fusarium euwallaceae*).

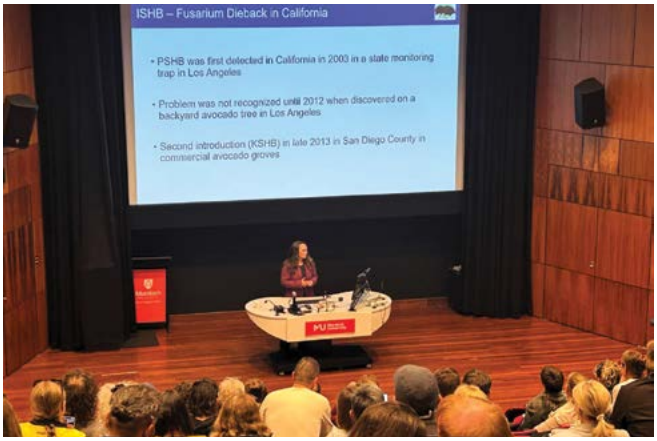
The pest was first detected in WA in 2021, in East Fremantle, and is a currently contained within a quarantine area around Perth which covers 30 local government areas. Scientists in Southern California have been dealing with the pest for more than a decade, and the area is home to more than 77 tree species that act as reproductive hosts for the beetles and fungi. The devastation caused by PSHB is evident in California's river valleys, where it has killed hundreds of thousands of willow trees.

Hosted by the Harry Butler Institute, Dr Lynch's lecture discussed how an Integrative Pest Management (IPM) approach helped to map infestation, identify priority hotspots, treat infected trees and ensure effective, ongoing management. Using California's Disneyland Resort as a case study, Dr Lynch shared how IPM efforts had been highly successful in dramatically reducing beetle populations in the park, with some trees even recovering from the infection.

The strategies Dr Lynch has been developing across California involve collaborating with key agencies and research organisations to combine monitoring, detection, invasion biology, risk assessment, treatment and control with stakeholder engagement for the most effective management.

Executive Director of the Harry Butler Institute Professor Treena Burgess, who facilitated the lecture and Dr Lynch's visit, said the lecture was both informative and timely.





Shannon Lynch presenting the lecture.
Photos Kat Sambrooks, HBI

"The Harry Butler Institute is thrilled to be able to host Dr Lynch to deliver this public lecture for the community and share her expertise with a range of government agencies and organisations while she's here in Perth," Professor Burgess said.

"Polyphagous shot-hole-borer is of great concern, and we are committed to collaborating with universities and government agencies both locally and internationally to deliver impactful research and find lasting solutions for our state in response to this challenge."

Among the lecture attendees were scientists, horticulturalists, arborists, gardeners, program managers and natural area managers across local and state government, academia, community and the private sector.

At the conclusion of the lecture, Dr Lynch opened the floor to questions and provided clarity on treatment and management options related to various industries here in Perth.

During Dr Lynch's brief visit to Perth, she spent time with both the Department of Biodiversity, Conservation and Attractions, and the Department of Primary Industries and Regional Development — and spoke with local media outlets, sharing key insights into pest management

You can watch a recording of the lecture at https://youtu.be/Ky_aNZw-B_0?si=ER6gfwEed1cQ9ywE

This research supports the United Nations Sustainable Development Goals **15** and **17**.

Harry Butler Education Hub

The Harry Butler Education Hub is the central point for the research-connected education and outreach programs run by our Institute.

In 2024, HBI's science educators delivered a dynamic range of programs connecting schools, students, and communities with real-world science, across regional and metropolitan WA.

Highlights included the trial of a multi-context **Wetland Education Program**, expansion into **Humanities and Social Sciences** (HASS) classrooms, national recognition for our **Miyawaki Pocket Forest Program**, and the successful delivery of the **WA Bug Barcode Blitz** during National Science Week.

Strong collaborations with researchers, schools, industry partners, and the WA Department of Education enabled the development of innovative, curriculum-linked resources with hands-on science learning for students. Public engagement was strengthened through high-profile events such as the WISE Women in STEM Seminar, the STAWA Future Science Conference, Coogee Live, and the Australian Museum Eureka Prize, helping to build a vibrant and accessible science education presence across Western Australia.

OUTREACH PROGRAMS

Number of schools

22

Primary and high schools

Number of students

>400

Regions

Perth
Peel
Goldfields-Esperance
Great Southern
Wheatbelt



Banksia
Photo Kat Sambrooks, HBI



Students form St Mary's Anglican Girls School conducting water monitoring.
Photo Dannon Wu, HBI

Wetland Science Project

Wetland Science was trialled across three distinct environmental science contexts: tracking **snake-necked turtles**, exploring **cybernetic mussel water monitoring systems**, and investigating **invasive fish species**. Participating schools included St Mary's Anglican Girls' School, Pinjarra Senior High School, John Tonkin College, Waroona District High School, and Byford Secondary College.

Throughout the trials, researchers worked directly with students, guiding them through field-based data collection, digital data analysis, and the development of public education posters to communicate their findings. Students also visited Murdoch University to take part in hands-on workshops, including activities in technology programming to understand how systems like the cybernetic mussels operate.

Drawing on insights from each trial, a new version of the program is being developed for rollout in 2025. This version will allow students to customise their learning journey by selecting one of the three environmental contexts, while ensuring strong alignment with curriculum requirements across science, technology, and environmental studies.



National Science Week: WA Bug Barcode Blitz

A collaboration between HBI, BioBarcode Australia, AGRF, Promega Aust and Fisher Biotek brought about an exciting new citizen scientist program for National Science Week.

WA Bug Barcode Blitz, supported by a National Science Week Inspiring Australia Grant engaged schools and communities in collecting and identifying invertebrate species using DNA barcoding technology.

To support widespread regional participation, a professional **instructional video** and a set of accompanying resources were developed and shared with registered schools. Experts from HBI's Invertebrate Diagnostics Lab connected with students via an online streaming link to share their knowledge of WA's unique spiders and insect species.

The initiative, funded by the WA Inspiring Australia grant program, established of a new collaboration with the **WA Department of Education's Two-Way Science program**, and enabled students from remote community schools to participate in high-tech biotechnology activities for the first time.



Students processing their insect specimens for barcoding.
Photo Looma Remote Community School

Miyawaki Pocket Forest Program Update

In 2024, HBI ecologist Dr Grey Coupland and her team achieved significant milestones in advancing urban greening through the Miyawaki method. Through the program, the pocket forests team partners with schools or local communities to plant dense, biodiverse native forests which serve to provide habitat, combat urban heat, contribute to carbon sequestration and encourage citizen science and stewardship, while contributing to real research.

In 2024 the program, recognised by UNESCO as one of 150 global 'Green Citizens' programs, has continued to expand in both its reach and impact, locally and globally. Several new schools and local communities have joined the program, resulting in new forests planted and natural areas restored as well as hundreds of citizen scientists joining the program. The project has also garnered acclaim and media attention on an unprecedented scale, with it featuring in advertisements posted in 97 underground railway stations within the city of Paris, France throughout September.

A pocket forest created at Statewide Services with the Western Australian Department of Education is already being used for teacher training as part of their 'bush classroom initiative' and two-way science program.



Students from East Butler Primary School planting their forest.
Photo Dr Grey Coupland, HBI



Eddystone Primary School forest at 22 months growth.
Photo Dr Grey Coupland, HBI

Monitoring of previously planted forests continues, resulting in some positive results. The forest at Eddystone Primary School has demonstrated not only remarkable growth, with trees reaching over three meters in just two years, but the substantial cooling effects when compared to surrounding unforested areas.



Program leader, Dr Grey Coupland was recognised for her conservation efforts through the program when she was awarded the Dr Nic Dunlop Conservation Science award by the Conservation Council of WA, in November.

Much like its forests, the Miyawaki Pocket Forest program continues to grow at a healthy rate, extending its branches into schools across the Perth region and beyond. With Dr Coupland's efforts, the program contributes significantly to the reforestation and rewilding of urban schools and fosters engaged communities of citizen scientists to care for them.

Learn more about the Miyawaki Pocket Forests Program at www.pocketforestswa.org

Expanding into HASS classrooms

HBI's education programs expanded into Humanities and Social Sciences (HASS) classrooms, particularly in Geography, in response to the new WA syllabus that emphasises global challenges such as climate change, biodiversity loss, and land use change.

A key highlight was a full-day incursion hosted by Darling Range Sports College, where students explored how drone technology and robotics can be applied to environmental problem-solving. These technologies were demonstrated by HBI staff and partners, showcasing geospatial mapping tools and real-world research applications.





Live streaming the WA Bug Barcode blitz.
Photo Dannon Wu, HBI

Marketing

The institute has built a reputation within and beyond Murdoch University as proficient science communicators. We harness these skills to engage, enlighten and acknowledge our valued stakeholders through a variety of communications mediums.

Digital media

Through the HBI LinkedIn channel we continued grow our online following and increase our impact on the digital audience. While we experienced a moderate growth in **followers** (**33%**) compared to the previous year (**78%**), our content made a greater impression on audiences than ever before, with our top 10 posts earning between **1763** and **4267 impressions**.

Our LinkedIn channel continues to be an important communications platform for us and a significant connection between the researchers, the research, and the stakeholders. As digital media generally continue to increase in significance compared to non-digital communications forms, HBI will look to expand its repertoire of digital media channels in the future.

LINKEDIN METRICS IN 2024

Page followers
2350

Increase followers
33%

Posts
73

Average impressions score
1078

Top 10 scoring post impressions
1763–4267



Behind the scenes filming at Albany.
Photo Dannon Wu, HBI

Videos

In 2024, HBI saw increased engagement with its research story videos on Murdoch University's YouTube channel, likely due to a more story-driven format. These four- to six-minute videos, added to The Harry Butler Institute playlist, felt more engaging than typical corporate videos. To boost visibility, HBI began uploading videos directly to LinkedIn instead of linking from YouTube, resulting in higher engagement due to auto-play functionality. While this split viewership between platforms, the strategy enhanced recognition and interaction across both channels, marking a positive step forward in sharing HBI's research stories and the people behind them.

For National Science Week 2024, HBI supported the first **WA Bug Barcode Blitz** led by Pauline Charman, delivering a two-camera, live-switched livestream to schools and community centres statewide. A 19.5-minute instructional video was also created as a contingency and shared with facilitators. In 2024, HBI developed a hybrid event setup using existing gear, first used at the Alcoa Foundation Research Symposium. Events were livestreamed, recorded, and, when appropriate, professionally filmed and uploaded to YouTube to improve quality beyond standard lecture theatre recordings.

VIDEO METRICS IN 2024

Number of videos published to YouTube

8

5 to MU YouTube and 3 to HBI YouTube

Highest number of views

Black Cockatoos: 'Keep Carnaby's Flying: Ngoolarks Forever'

3294

the highest viewed HBI video ever

Total number of videos completed in 2024

8



HBI Video Playlist:
www.youtube.com/playlist?list=PLibRr7jgG2270B-_GPngtW_Z0spCTYn_X

Events

Society for Marine Mammals Conference

For the first time in the International Society for Marine Mammalogy's 50+ year history, world marine mammal experts headed to Perth to share their knowledge about the ocean's diverse ecosystem. More than 1,300 people from 80 nations attended and shone a light on the theme 'Culture and Conservation: Fishing for Change'.

This theme encapsulated two key areas — the relationship between marine mammal and human cultures, and the impact of discarded fishing gear/waste on marine life.

Two of the key local organisers responsible to the successful Perth conference were HBI postdoctoral research fellows Dr Krista Nicholson, a population ecologist working on dolphin populations in the Peel region and Dr Delphine Chabanne who works on the ecology and genetics of coastal and estuarine dolphin species. Dr Nicholson was the Co-Chair of the 2024 Conference, while Dr Chabanne served as Scientific Program Co-Chair.

The conference featured a weekend of workshops followed by a week of talks, videos and a new event in the form of a Film Festival. The event was a great success, fulfilling its vision to host an enriching and sustainable conference for all.

"The exchange of ideas and experiences at this conference will not only enhance our understanding of marine mammals but also inspire innovative solutions to the challenges they face in a rapidly changing world," Dr Chabanne said.

The 25th Biennial Conference on the Biology of Marine Mammals took place at the Perth Convention and Exhibition Centre in November.



Delphine and Krista BMM 2024.
Photo Kat Sambrooks, HBI

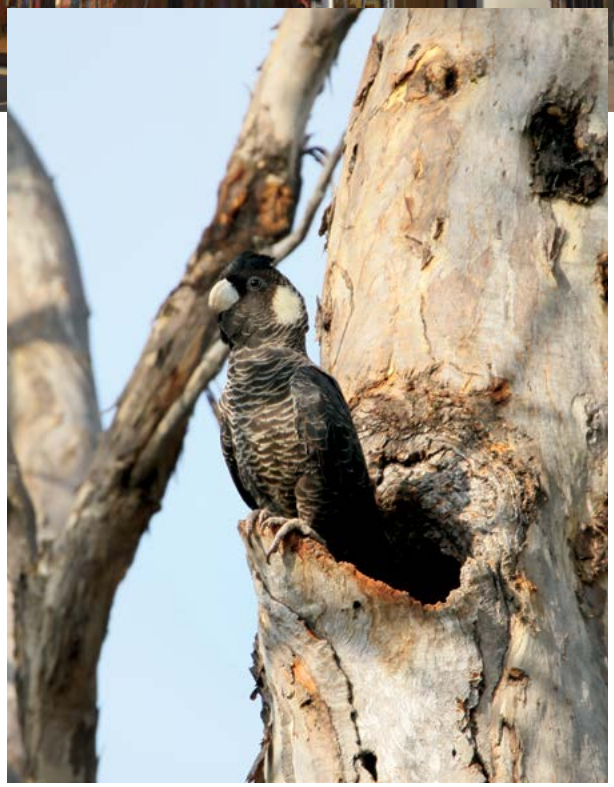


Jayson Brown presenting at the Festival of Ngoolarks.
Photo Kat Sambrooks, HBI

Festival of Ngoolarks

Murdoch University hosted the inaugural Festival of Ngoolarks, a celebration of the Carnaby's black cockatoo, or Ngoolark. The festival was part of the Murdoch University-led Keep Carnaby's Flying — Ngoolarks Forever project, supported by LotteryWest in collaboration with key partners.

The Murdoch University project team was joined by key community partners, including Perth Zoo, ReWild Perth, the Urban Bushland Council, Kaarakin Black Cockatoo Rescue, and key Local Government, who hosted information stalls. Local Noongar Elders shared stories about the cockatoos in ancient times. The event concluded with a screening of the independent film Black Cockatoo Crisis, introduced by film-maker Jane Hammond. The event was a fitting public tribute to these iconic birds and the people who work hard to protect them.



Carnaby's black cockatoo.
Photo Karen Riley, MU



Professor Peter Newman delivering the 2024 Roby Lecture.
Photo Kat Sambrooks, HBI

Keith Roby Memorial Lecture

The 2024 Keith Roby Memorial Lecture coincided with Murdoch University's 50th anniversary celebrations—an occasion acknowledged by distinguished lecturer Professor Peter Newman.

Now Professor of Sustainability at Curtin University, he reflected on the early days of his career as one of Murdoch's inaugural Environmental Science lecturers, during a time when the field was just emerging in Australia. He spoke of the influence of Keith Roby on his thinking and teaching, highlighting Roby's role in shaping his commitment to social and environmental justice. He reflected on his longstanding relationship with Murdoch University including academic appointments from 1974 to 2007, where he progressed from lecturer to professor in Environmental Science, and served as inaugural Director of the Institute for Sustainability and Technology Policy, which contributed to policy development both nationally and internationally.

His return to Murdoch University for this lecture was both a celebration of the institution's legacy and a tribute to the enduring impact of Keith Roby's vision. The lecture was appreciated by a diverse audience of Murdoch University staff and students as well as Professor Newman's past students, colleagues and friends.

A recording of the lecture is available on the HBI YouTube channel: https://youtu.be/4B37Xbpmtx8?si=sw565P0hMWkGyBSj



Bringing science to the community at Coogee Live

Murdoch University's STEM Outreach team and HBI Outreach team pooled their talents to engage the Cockburn community at the 2024 Coogee Live Festival.

The festival attracted thousands of visitors to Omeo Park, where they were treated to live entertainment and engaged with a range of stalls. Our display featured engaging citizen science projects and hands-on activities for all ages and offered the opportunity to learn from real scientists. It was valuable to be part of this large community event.





Professor Bowerman with lecture organisers and attendees.
Photo Kat Sambrooks, HBI

Marie Windstein interviews Jane Goodall

PhD-candidate and movement ecologist, Marie Windstein interviewed Dr Jane Goodall as part of the 'Reasons For Hope Tour'.

Marie Windstein, a PhD candidate and movement ecologist at HBI was selected by the Forrest Foundation to interview famed environmental advocate Dr Jane Goodall. Their discussion, held live at Curtin University before a packed auditorium, highlighted the ongoing challenges and aspirations within the field of conservation, resonating with the theme of the 'Reasons for Hope Tour'.

For Marie, it was a once in a lifetime opportunity to meet and interview someone who had been such an inspiration to her both personally and professionally.

www.linkedin.com/feed/update/urn:li:activity:7201135917544202240

This initiative supports the United Nations Sustainable Development Goals **4**, **13**, **14**, **15** & **17.**



Dr Jane Goodall being interviewed by Marie Windstein.
Photo Sofia Ottone

Avian Influenza - lessons from USA's bald eagles

High Pathogenicity Avian Influenza (HPAI) is a significant threat to Australia's biodiversity and poultry industry.

The deadly disease is spreading across North America, South America, Asia, Europe, the Middle East and Africa, causing illness and death in a wide range of bird species. HBI invited wildlife ecologist and toxicologist, Professor William Bowerman from the University of Maryland USA to give a special public lecture on Highly Pathogenic Avian Influenza (HPIA) linked to a population-level additive mortality event of bald eagles in Michigan. Professor Bowerman shared important lessons for Australia, learned through his long-term study of bald eagles.

The lecture was attended by wildlife and researchers, professionals, volunteers and students concerned about this deadly disease and how it will impact Australian fauna.

Awards

University Senate Medal for Emeritus Professor Jen McComb

Emeritus Professor Jen McComb was awarded the prestigious Murdoch University Senate Medal for her outstanding service to the University.

Although retiring 20 years ago, Jen has continued to impart her wisdom and influence on the plant pathology and physiology group at Murdoch University.

She has gone above and beyond in her support of students, regularly meeting with each student, guiding the development of their English and scientific communication skills, providing overall support. Her dedication has not only helped these students excel in their studies but has empowered them to make their own confident contributions to the field through publications.

The mentorship, support and friendship provided by Professor McComb helped her students to complete their PhDs and pursue postgraduate careers in their fields.

A number of her students sent letters supporting Professor McComb's nomination for the award, describing the impact she has had on their professional careers. Professor McComb's achievement was celebrated by plant pathology and physiology colleagues and past students.

» Emeritus Professor Jen McComb receiving her senate medal from Vice Chancellor Professor Andrew Deeks.
Photo Murdoch University





» **CCWA Award.**
Photo Conservation Council WA

Recognition for an innovative urban greening initiative

Dr Grey Coupland was awarded the Dr Nic Dunlop Conservation Science award by the Conservation Council of WA. The award recognises an individual who has shown exceptional commitment to conservation science in WA. The recipient is a leader in restoring landscapes, creating wildlife habitats, or connecting people to nature.

Dr Coupland was nominated for her achievements in ecological restoration, STEM engagement in children, and community capacity building through the Miyawaki Forest program she leads. She was awarded alongside fellow award-winners at a ceremony held at The Wetlands Centre Cockburn.

RSWA John Glover Research Support Grant Awardees

Each year, the Royal Society of Western Australia awards John Glover Research Support Grants to worthy PhD students within the fields of natural sciences, anthropology, or archaeology. The awards are given in honour of their benefactor and former President of the Royal Society of WA, John Glover.

Among the 2024 recipients were HBI Murdoch University researchers Faith Chen, whose research compared methods for monitoring feral cats; Helen Armstrong, who was exploring the taxonomy, systematics biodiversity and biogeography of Cryptogonimidae trematode flatworms in Australian marine fishes; and Marie Windstein, whose research sought to understand the spatial ecology of sharks and rays in the nearshore environment of a newly created Sea Country Indigenous Protected Area in the Kimberley. The winners used their grants to further their research.



» **Some of the 2024 RSWA John Glover Research Support Grant winners including Faith Chen (far left), and Helen Armstrong (third from right).**
Photo Kat Sambrooks, HBI

Publications

Research academics and students across the Harry Butler Institute's four Centre's have published their original research, analytical reviews and novel species descriptions in some of the world's highest rated scientific journals, including *Nature*, *Nature Communications*, *Fungal Diversity*, *Studies in Mycology* and *Science of the Total Environment*.

1. Abdo L.J., Griffin S., Kemp A., Coupland G. Has a dedicated biodiversity offsets policy improved the environmental and social compensation outcomes of development in Australia? (2024) Environment, Development and Sustainability, Cited 0 times. DOI: 10.1007/s10668-024-05108-0. **www.scopus.com/inward/record.uri?eid=2-s2.0-85202456886&doi=10.1007%2fs10668-024-05108-0&partnerID=40&md5=02b82f3a075003697caacb9408cab737**

2. Abdullah A.A., Dlugogorski B.Z., Oskierski H.C., Senanayake G. Kinetics of spodumene calcination (α-LiAlSi2O6) (2024) Minerals Engineering, 216, art. no. 108902, Cited 1 times. DOI: 10.1016/j.mineng.2024.108902. **www.scopus.com/inward/record.uri?eid=2-s2.0-85200959306&doi=10.1016%2fj.mineng.2024.108902&partnerID=40&md5=cf6e9a4781108dbb02321b50b4523880**

3. Abdullahi I.N., Lozano C., Latorre-Fernández J., Zarazaga M., Stegger M., Torres C. Genomic analysis of multi-drug resistant coagulase-negative staphylococci from healthy humans and animals revealed unusual mechanisms of resistance and CRISPR-Cas system (2024) International Microbiology, Cited 0 times. DOI: 10.1007/s10123-024-00577-9. **www.scopus.com/inward/record.uri?eid=2-s2.0-85204295117&doi=10.1007%2fs10123-024-00577-9&partnerID=40&md5=4f1bb41c28545c31a987e22cf52b333a**

4. Abdullahi I.N., Lozano C., Zarazaga M., Latorre-Fernández J., Hallstrøm S., Rasmussen A., Stegger M., Torres C. Genomic Characterization and Phylogenetic Analysis of Linezolid-Resistant Enterococcus from the Nostrils of Healthy Hosts Identifies Zoonotic Transmission (2024) Current Microbiology, 81 (8), art. no. 225, Cited 1 times. DOI: 10.1007/s00284-024-03737-2. **www.scopus.com/inward/record.uri?eid=2-s2.0-85196014619&doi=10.1007%2fs00284-024-03737-2&partnerID=40&md5=97c7eb641edf92aa17ff18292b97ee0d**

5. Abdullahi I.N., Lozano C., Zarazaga M., Simón C., Höfle U., Sieber R.N., Latorre-Fernández J., Stegger M., Torres C. Comparative genomics of *Staphylococcus aureus* strains from wild birds and pig farms elucidates levels of mobilomes, antibiotic pressure and host adaptation (2024) Journal of Global Antimicrobial Resistance, 36, pp. 142–150, Cited 4 times. DOI: 10.1016/j.jgar.2023.12.003. **www.scopus.com/inward/record.uri?eid=2-s2.0-85183549395&doi=10.1016%2fj.jgar.2023.12.003&partnerID=40&md5=015d91e3d2979e92aa16eebc308244d6**

6. Alavianghavanini A., Moheimani N.R., Bahri P.A. Process design and economic analysis for the production of microalgae from anaerobic digestates in open raceway ponds (2024) Science of the Total Environment, 923, art. no. 171554, Cited 3 times. DOI: 10.1016/j.scitotenv.2024.171554. **www.scopus.com/inward/record.uri?eid=2-s2.0-85187198202&doi=10.1016%2fj.scitotenv.2024.171554&partnerID=40&md5=3deb8e0d675080874eedc2dd26024e19**

7. Alavianghavanini A., Moheimani N.R., Bahri P.A. Producing protein-based products from microalgae cultivated on anaerobically digested abattoir effluent: Process integration and techno-economic analysis (2024) Bioresource Technology Reports, 25, art. no. 101734, Cited 8 times. DOI: 10.1016/j.biteb.2023.101734. **www.scopus.com/inward/record.uri?eid=2-s2.0-85179134174&doi=10.1016%2fj.biteb.2023.101734&partnerID=40&md5=dc1ab0ebfa1c59de66cb4e28725ec601**

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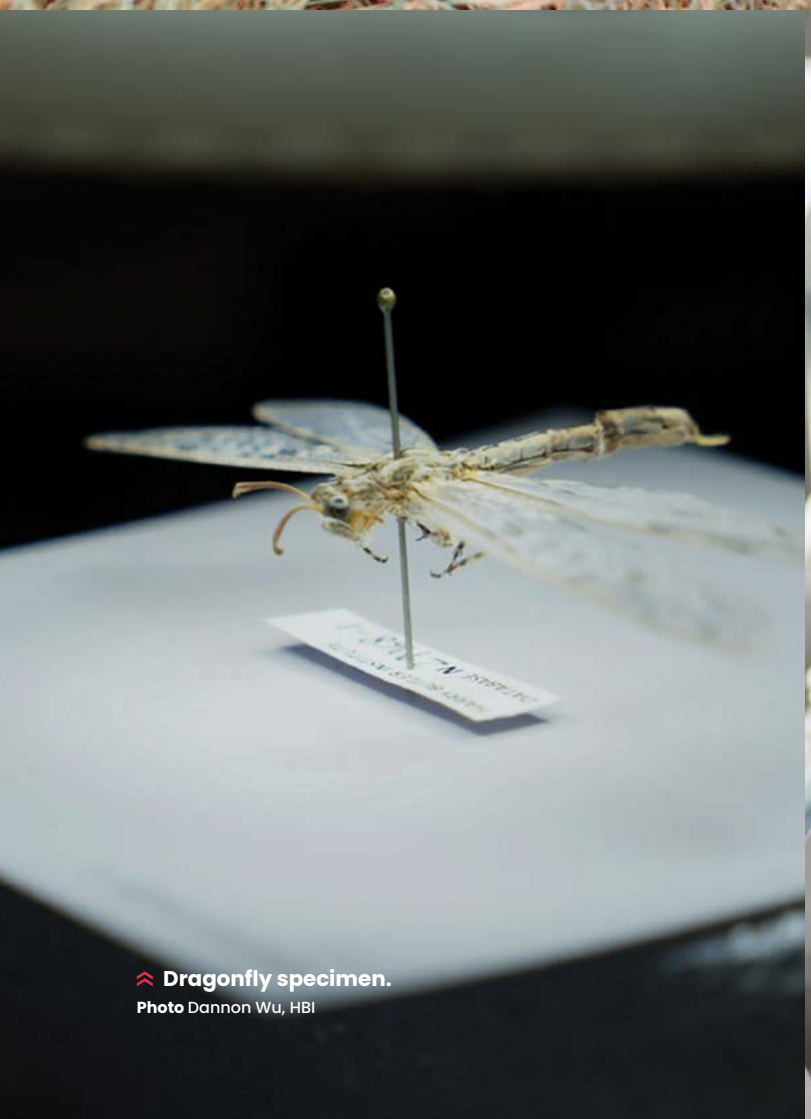
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Snake and spinifex ecosystem.
Photo Rachel Standish, HBI



Dragonfly specimen.
Photo Dannon Wu, HBI



Arachnid taxonomy specimens.
Photo Dannon Wu, HBI

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Volker Framenau collecting a spider.
Photo Dannon Wu, HBI

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