PLANT SYNBIO AUSTRALIA

News

NEWS FROM AUSTRALIA'S PLANT SYNTHETIC BIOLOGY NETWORK

Plant SynBio Australia is funded through Bioplatforms Australia under the National Collaborative Research Infrastructure Strategy (NCRIS) and institutional partners

Welcome

I am delighted to welcome you to our first Plant SynBio Australia newsletter.

Plant SynBio Australia has been established through BioPlatforms Australia to provide a collaborative, open access network of plant synthetic biology infrastructure and services with Nodes here at Adelaide University, the Australian National University (ANU), La Trobe University and the University of Western Australia.

We are looking forward to working with researchers, institutions and industry to transform agriculture and biomanufacturing through plant synthetic biology.

This first newsletter will give you an introduction to our service offerings, engagement models and contact details. As we progress, we will include more news, updates and personal insights to keep you in touch with our activities and how they could benefit you.

If you have colleagues or peers who could find this news useful, please feel free to forward this email to them.

I look forward to sharing more Plant SynBio updates with you in the near future.

Andrew Jacobs PhD MBA GAICD
Chief Operating Officer, Plant SynBio Australia

We're open for business

The Plant SynBio Australia node at Adelaide University is now open to support your research and development activities, with our laboratories and controlled environment growth rooms achieving PC2 certification. This certification confirms that our facilities, workflows, and operational practices comply with the requirements for handling genetically modified organisms under Australian biosafety regulations.

Stewardship and security

Stewardship is central to our mission. Our teams are implementing rigorous quality control and protocols to ensure that all research outputs meet best practice benchmarks for safety and regulatory compliance across the entire lifecycle of our projects.

PSBA's Notifiable Low Risk Dealing (NLRD) application was submitted to Adelaide University's IBC in early February. The initial submission is designed to cover a broad range of agriculturally and horticulturally significant crop species, giving our partners maximum flexibility for project onboarding. The team is now focussed on ensuring we have the appropriate license for field testing customer's GM projects.

Our offerings include:

PSBA is committed to providing industry, academic, and government partners with a secure, compliant, and innovation ready environment for plant synthetic biology research and translational development.

- **Advanced molecular componentry design and characterisation**
- **Omics-based phenotypic evaluation of transformed plants**
- **Transient and stable transformation platforms**
- **Development of plant vaccine production, bio-pharmaceuticals**
- **Transformation of multiple crops**
- **Integrated bioinformatics and data management solutions**

Engagement Models

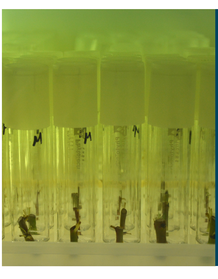
PSBA offers flexible engagement option tailored to your needs.

Fee-for-service: Provision of expert technical services on a fee for services basis, such as DNA assembly, gene synthesis, plant transformation (Agrobacterium-mediated or other methods), genome editing, phenotyping, and molecular analyses. This enables researchers and industry clients to leverage specialist capabilities, knowledge and equipment without maintaining these functions in-house.

Facility access: Access to specialised plant synthetic biology infrastructure, including controlled-environment growth rooms, plant tissue culture suites, molecular biology laboratories, and analytical equipment. Researchers and industry partners can utilise these spaces to design, build, test, and validate engineered plant systems, supported by trained technical staff and robust safety frameworks.

Incubation space: Dedicated space for startups, project teams, or industry partners developing plant synthetic biology innovations. Incubation may include access to laboratory benches, controlled-environment growth areas, shared equipment, technical expertise, and mentoring. It supports early-stage R&D, development, and the scale-up of engineered plant systems in a collaborative research environment.

Collaboration: Partnership opportunities between academic researchers, industry, and government agencies to co-develop plant synthetic biology solutions. Collaboration may involve joint research projects, co-supervision of students, shared access to platforms and expertise, or strategic partnerships aimed at accelerating innovation.



Learn more

Contact us to discuss you research project and/or to visit our facilities:

psba@adelaide.edu.au

plantsynbio.au

linkedin.com/company/plant-synthetic-biology-australia/?viewAsMember=true

plantsynbio.au

Plant SynBio Australia is funded through **Bioplatforms Australia** under the **National Collaborative Research Infrastructure Strategy (NCRIS)** and supported by the South Australian and Western Australian State Governments. Plant SynBio Australia operates as a collaborative network across four university nodes: Australian National University, La Trobe University, University of Western Australia and Adelaide University.

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Our email address is psba@adelaide.edu.au

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