



Corymbia



UNLOCKING NATURE'S SECRETS WITH **eDNA**

Corymbia EcoSciences

<https://www.corymbia.eco>

Scientifically backed data for biosecurity, bioinformatics, endangered species protection, micro-fauna, soil analysis, and more.

HARNESS THE POWER OF eDNA



Everything that lives, leaves tiny traces of DNA on your land. This **Environmental DNA** is revolutionising the way we understand the land and its inhabitants.

With simple sampling and **Next-Gen Sequencing** technology, we analyze these tiny fragments of DNA from animals, plants, fungi and microbes to provide rapid and detailed scientific data on exactly what lives in **and on** your soil and water, and even what those inhabitants had for lunch.

THE BENEFITS



PROTECT

- Apply for grants and funding with confidence using scientific data
- Secure habitat protection & conservation with proof
- Build correct local conservation strategies for endangered wildlife



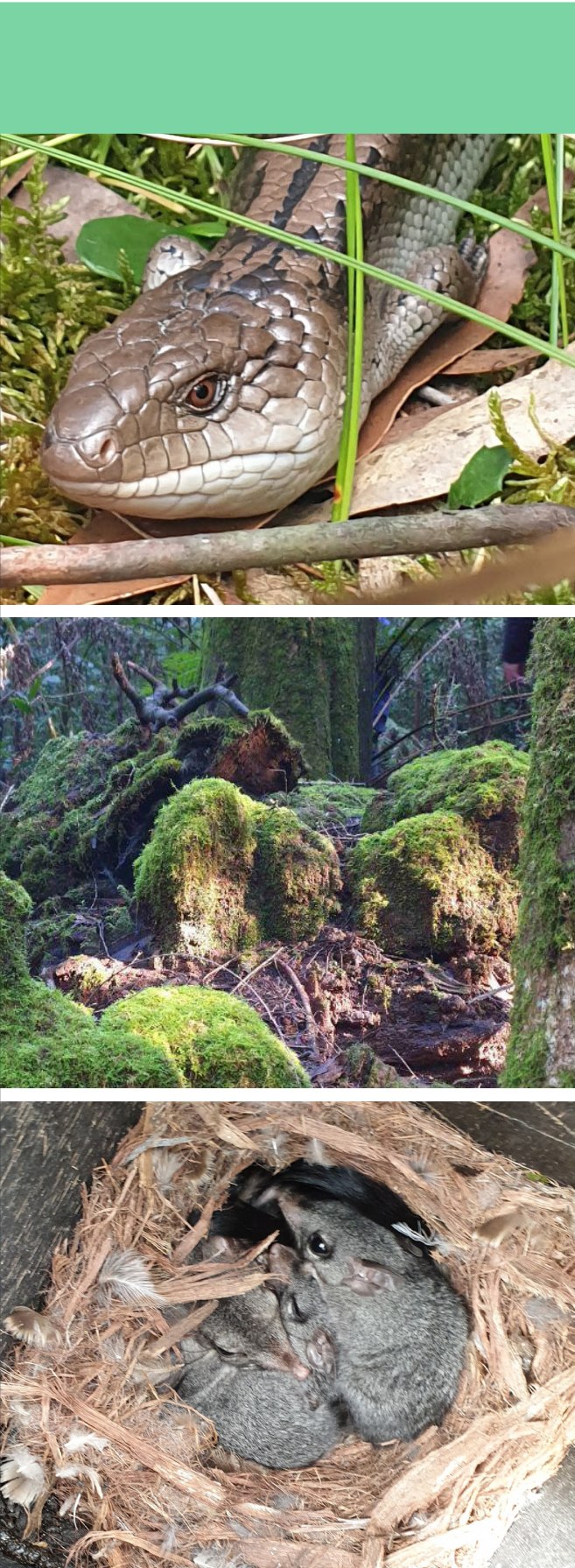
GROW

- Improve crop yields
- Create targeted pest management strategies
- Enhance climate adaptivity & drought resistance
- Improve long term soil resilience



DIVERSIFY

- Develop healthier native ecosystems that help the land manage itself
- Monitor over time to develop targeted management
- Increase native biodiversity and grow the way local nature intended



HOW WE CAN HELP

TAILORED FULL SERVICE SOLUTIONS

Corymbia provides end-to-end eDNA services, from sample collection to data analysis, with customized approaches to meet each project's unique needs. We offer targeted species detection, biodiversity assessments, ecological surveys and more. You'll receive detailed scientific reports and assistance in understanding and implementing strategies around the data.

ECOLOGICAL SURVEY & ASSESSMENT

A baseline ecological reference & assessment to identify biodiversity values and environmental assets.

SURVEY DESIGN

Design of environmental screening surveys to determine key field biometrics. Includes the assembling and design of species-specific targeted assays.

AGRIBIOME SOIL ANALYSIS

Next-gen sequencing, direct to soil qPCR, and soil analysis offering a window into the dynamic world of soil microbiomes. Ongoing microbiome monitoring.

SPECIES DETECTION, SURVEILLANCE & MONITORING

Survey, collection, and sampling of soil, scat, water, and genetic tissue for qPCR targeted eDNA extraction & analysis. Bioinformatics and heatmaps showing presence or absence of targeted critically endangered or invasive species.

NATIVE REVEGETATION & RESTORATION DESIGN

Climate adaptive restoration and revegetation using local indigenous flora, creating native species habitat and food sources, soil stabilisation and regenerative agribiome structuring.

MEET THE TEAM

Mariea Pacheco is an accomplished environmental consultant and applied field ecologist of more than two decades experience with a background in Conservation, Land Management, and Environmental Sustainability. Mariea works at the forefront of novel species identification through pioneering methods like eDNA analysis and next-generation sequencing, integrated with traditional knowledge and native sustainability.

Dr. Matthew Latif is an accomplished molecular biologist and genetic engineer with over 25 years of experience. His groundbreaking work includes novel antibacterial agents to combat antimicrobial resistance, engineering synthetic bacteria to break down PET plastic, and nurturing the next generation of biotech scientists and entrepreneurs.

At Corymbia EcoSciences they blend cutting edge science with traditional wisdom to move the science of environmental conservation forward in way everyone can access.

FREE CONSULTATION

Discover how eDNA can help improve your land, or enable your project.

Book your free consultation with our experts and they'll help you identify the solutions to your most pressing problems.

Book Now.

Email us at info@corymbia.eco and let us know how we can help.



Mariea Pacheco
Co-Founder
Applied Field Ecologist



Dr. Matthew Latif
BSc. (Hons) PhD
Co-Founder
Chief Scientific Officer