**Expressions of Interest for DiversityScanner Technology Use Trials**

DiversityScanner is novel technology combines robotics, machine learning and high-throughput genomic sequencing to scan, classify and quantify invertebrate taxa from bulk environmental samples. The Centre for Biodiversity Analysis has initiated the establishment of the Australian Biodiversity Discovery Facility using the DiversityScanner technology based at the Australian National University in Canberra.

We are now seeking expressions of interest from people who would like to trial the use of DiversityScanner and associated pipelines for use in their research or monitoring projects. These trial projects will allow us to test the use and feasibility of the DiversityScanner technology across a broad range of taxa and applications as we establish the Facility and provide you with a better understanding of whether and how this technology can work for your specific needs.

We welcome EOIs from anyone, including students, working in fields related to Biodiversity, who have samples available to be processed using DiversityScanner pipelines. We are looking for several test cases that represent a broad range of taxa and applications. If your EOI is successful we will work with you to determine the best way to process your samples. We will cover the costs of sample processing using DiversityScanner methods. This includes reagents, consumables, access to equipment, bench fees, and staff time. All funds will be administered by the CBA. We will not cover costs associated with collecting samples/specimens.

If you are interested in developing an EOI but are unsure what DiversityScanner is or whether it may be suitable for your application, please get in touch with megan.head@anu.edu.au. On 26 November 2024 we are hosting an [Open Day](https://cba.anu.edu.au/news-events/events/abdf-open-day) at the Australian Biodiversity Discovery Facility at ANU where there will be the opportunity to hear about and observe the DiversityScanner and discuss potential projects.

***Please note that this is an expression of interest to trial and develop the DiversityScanner technology. We cannot guarantee useable results. Data produced (images, sequences) will be openly available for use by all collaborators and the CBA expects co-authorship on any resulting publications.***

Please submit by 6 Dec 2024 to claire.stephens@anu.edu.au a short expression of interestthat includes:

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| **Project title** |
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| **Collaborators**including any external researchers and stakeholders.  |
| **Name** | **Institution/Affiliation** | **Email** | **Career stage** |
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| **Description of application.** Provide a brief description of the application or research question that you are hoping to use DiversityScanner for. |
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| **Description of samples.** Provide a brief description of the samples that you would like to process. Include information on taxa, number of samples/specimens, when they were collected, how they have been stored, etc. |
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| **DiversityScanner training.** Please indicate if you plan for us to process your samples or if you would like to be trained to use the DiversityScanner pipeline in Canberra (if so, provide a brief technical background). |
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