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Australia develops world-first multiple sclerosis global image database

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A world-first global MS image database launched in Australia



A world-first global MS image database has been launched in Australia complementing MSBase, the largest clinical MS patient registry, to advance MS research with potential for earlier diagnosis and precision monitoring.

The first global repository of curated and de-identified MRI scans of multiple sclerosis (MS) patients' brains is now accessible to researchers worldwide, heralding a new era in real-world, collaborative clinical-imaging research in the field.

The resource, co-developed by the University of Sydney's Brain and Mind Centre, along with MSBase and the Sydney Neuroimaging Analysis Centre (SNAC), has the potential to advance MS research, particularly in working towards earlier diagnosis and monitoring of disease progression.

Under development for the past 18 months, the novel imaging platform complements MSBase - the largest worldwide clinical MS patient registry with more than 75,000 patients.

The new MSBase Imaging Repository (MSBIR) integrates state-of-the-art informatics with an AI analytics engine, fostering a new generation of imaging biomarkers for precision monitoring of MS.

It is designed to securely house raw de-identified imaging data for MS patients from multiple sites globally that can be accessed by registered contributing research groups, bringing capacity and scalability to clinical MS imaging research.