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e-Research for Crystallography at Monash University

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Recent developments in high throughput protein crystallography have necessitated the parallel development of solutions to handle, track and process the large volumes of data produced from robotically established crystallisation trials and in-house / synchrotron experiments. Here we present effective informatic solutions developed as part of the national DART project for the monitoring of in-house crystallisation experiments and for storing and dissemination. These approaches also allow utilisation of GRID computing for data processing and molecular replacement experiments. Finally, we present various laboratory information management systems (LIMS) for tracking crystallisation experiments.