

MS03-1-7 Getting it right from the start – collecting best data with the D8 VENTURE platform
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Abstract

In house X-ray data collection is still a gold standard for obtaining precise atomic coordinates in a timely manner. Highly integrated platforms like our D8VENTURE are available 24/7 and enable even the novice user to work effectively on ever complex crystallographic targets as well as they provide experts with a variety of tools to collect the best data possible. New features, both in automation hardware and software design have been developed to be at your service as the projects become more challenging and productivity is a requirement.

Here we demonstrate that how the D8 VENTURE platform available with the μ S DIAMOND or METALJET X-ray source and combined with the latest generation of photon counting CPAD (PHOTON III) detectors and SCOUT automated sample changer can collect data of protein crystals with a broad array of properties ranging from highest resolution to extremely large unit cells or very small crystal size in a high throughput manner.

We will discuss new options for the tailoring of source parameters with a focus on beam divergence and beam size. Both allow an optimized diffraction experiment for your specific crystal and can be crucial for resolving reflections and minimizing background scattering.

D8 VENTURE with SCOUT sample changer

