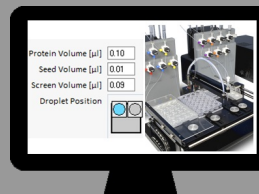


For more information:

Request a demonstration or seminar for  
your lab

Carolyn@douglas.co.uk



# Douglas Instruments

Success in protein crystallization

Dear Crystallographer

### Three ways an Oryx8 can help you optimize:

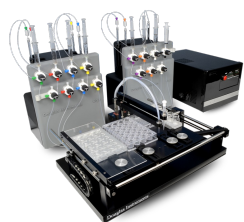
1. **Rapid reservoir filling** for optimization - Up to 6 ingredients including water are dispensed to each reservoir well. Typically total reservoir well volumes from 25 - 500 µl are dispensed.
2. **Hanging drop** cover slide dispensing (22mm, 18mm and EasyXtal screw lids). Increase drop accuracy and reproducibility.
3. **Microbatch under oil** - perfect for creating phases diagrams and identifying conditions to scale up.

And most importantly use microseeding. **rMMS microseeding**, that is adding microseeds to a random screen, is a great way to increase throughput and find diverse and better crystallization conditions prior to optimization. In fact, the conditions that rely on seeding give you much more control. Home in on them!

Optimization

Request more  
information

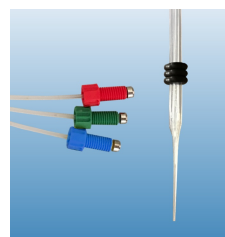
### Products available from Douglas Instruments



Oryx Robots



Crystallization  
Plates



Oryx Microtips

### Conferences:

Douglas Instruments is attending the following meetings:

**BBS Biennial Meeting**  
29 June - 01 July 2022

**SWSBC22, Bristol, UK**  
7 July - 8 July 2022

**ACA Annual Meeting, Portland, USA**  
30 July - 2 August 2022

**ECM33, Versailles, France**  
23 July - 27 August 2022

**HEC24, Dolni Vltavice, Czech Republic**  
22 July - 24 September 2022

### Recently published research using Oryx protein crystallization robots:

#### **Asymmetric and non-stoichiometric glycoprotein recognition by two distinct antibodies results in broad protection against ebolaviruses**

Milligan, Jacob C., et al., 2022

*Cell* 185.6: 995-1007.

#### **Structure-guided mutagenesis of a mucin-selective metalloprotease from *Akkermansia muciniphila* alters substrate preferences**

Shon, D. Judy, Daniel Fernandez, Nicholas M. Riley, Michael J. Ferracane, and Carolyn R. Bertozzi. 2022.

*Journal of Biological Chemistry* 298.5: 101917.

