

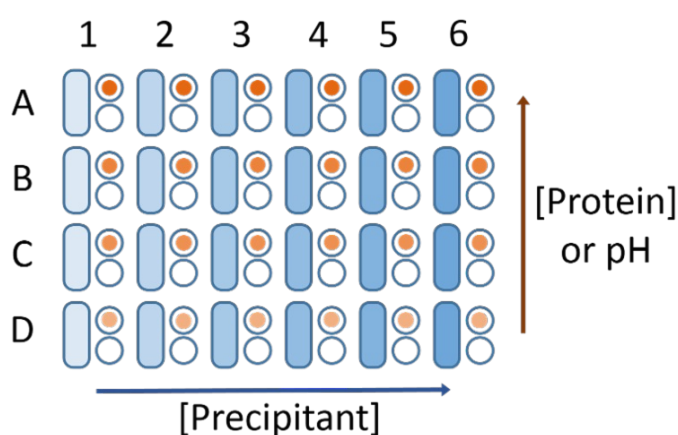
## Super-quick sitting drop optimization

### Dear Crystallographer

Do you ever want to run a quick-and-easy 2d grid of say 4 x 5 wells? Our latest software release makes this really easy. The robot first dispenses the precipitant gradient to the reservoirs. Then, in a second pass, the robot aspirates protein and dispenses the drops using a [multibore microtip](#).

- Dispense to any 24, 48 or 96-well plate
- Reservoir volumes from 20  $\mu\text{L}$  to 500+ $\mu\text{L}$
- Recommended total drop volume 0.2  $\mu\text{L}$  to 8.0  $\mu\text{L}$

For [hanging drop optimization](#) the robot can dispense to 18 mm or 22 mm coverslides and 24 well plates. [Microbatch under oil](#) optimization experiments are also available. Very powerful optimization experiments with up to 7 ingredients can be designed with [Xstep for Oryx8](#).



<b>General</b> Experiment Type: <input type="text" value="Sitting Drop"/> Sitting Drop Plate: <input type="text" value="SwissCI_2Drop"/> Evaporation Shield: <input checked="" type="checkbox"/> Beep at end of Expt: <input checked="" type="checkbox"/> Wells to dispense: <input type="text" value="24"/> <b>Solution Names</b> Protein (X1): <input type="text" value="Protein X"/> Hit Solution (Y1): <input type="text" value="Cocktail #1"/> Diluent (Y2): <input type="text" value="Water"/>	<b>Droplet One</b> Droplet Position: Execute this drop: <input checked="" type="checkbox"/> <b>Droplet One Specification</b> Drop Volume [ $\mu\text{L}$ ]: <input type="text" value="0.50"/> Protein % in Col.A: <input type="text" value="50.00"/> Protein % in Col. D: <input type="text" value="30.00"/>	<b>Reservoir Volume</b> Reservoir Volume ( $\mu\text{L}$ ): <input type="text" value="60.00"/> <b>Precipitant Conc. Gradient</b> Combined Hit Sol. % in row 6: <input type="text" value="100.00"/> Combined Hit Sol. % in row 1: <input type="text" value="60.00"/>
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Relevant Videos on YouTube or [www.douglas.co.uk/videos.htm](http://www.douglas.co.uk/videos.htm):

- [Hanging drop optimization](#)
- [Xstep optimization for Oryx8](#)
- [Microbatch under oil optimization](#)

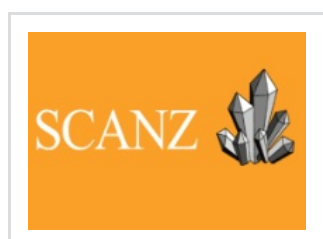
To request a quotation or demonstration please contact [Patrick@douglas.co.uk](mailto:Patrick@douglas.co.uk)

For product support contact [Stefan@douglas.co.uk](mailto:Stefan@douglas.co.uk)

For anything else please contact [Info@douglas.co.uk](mailto:Info@douglas.co.uk)

Douglas Instruments will be at the following meetings:

Visit our booth and pick up a microseeding toolkit containing everything you need to do a [MMS microseeding experiment](#) including a Hampton Research Seed Bead and Crystal Crusher.



CRYSTAL 31, Bunker bay, Western Australia

3 December - 7 December 2017

[Nuclear transport of the \*Neurospora crassa\* NIT-2 transcription factor is mediated by Importin- \$\alpha\$ .](#)

Bernardes, N.E., Takeda, A.A.S., Dreyer, T.R., Cupertino, F.B., Virgilio, S., Pante, N., Bertolini, M.C. and Fontes, M.R.

Biochemical Journal (2017): BCJ20170654

[Structure-function analysis of the \*Fusarium oxysporum\* Avr2 effector allows uncoupling of its immune-suppressing activity from recognition](#)

Di, X., Cao, L., Hughes, R.K., Tintor, N., Banfield, M.J. and Takken, F.L.

New Phytologist 216 (2017): 897-914

[Structure of a soluble epoxide hydrolase identified in \*Trichoderma reesei\*](#)

Wilson, C., De Oliveira, G.S., Adriani, P.P., Chamberggo, F.S. and Dias, M.V.

BBA Proteins and Proteomics 1865.8 (2017): 1039-1045

