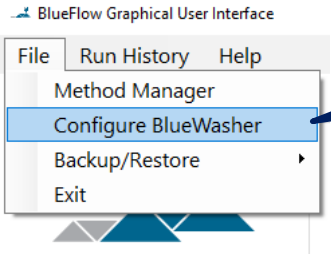
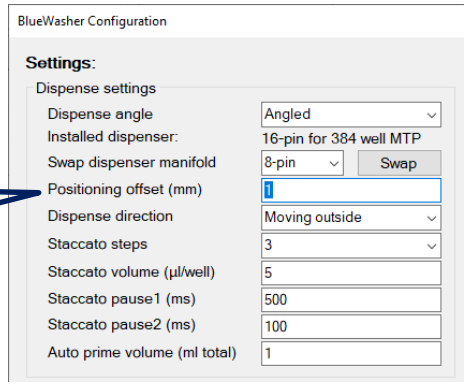
Guide: How to adjust dispenser to avoid cell detachment

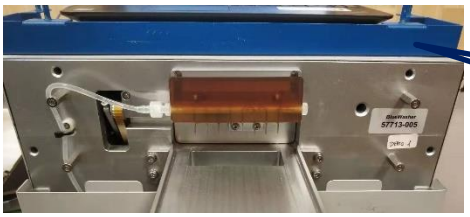
- In order to **prevent cell detachment during dispense**, it is important to adjust the location where the dispense jet enters the wells so it hits the well walls, rather than the cell layer directly
- You can **change the dispense jet well entry position** by adjusting the "**positioning offset**" parameter in the Blue® Washer configuration
- **Warning**: if dispense jets hit cellular layer at well bottoms directly, **cells may detach**
- **Note**: dispense jet well **entry position depends on labware** – re-adjust when changing plate types
- **For most cell-friendly dispensing**, also reduce dispense pressure and try the "staccato" mode



From top line in GUI, open File→ **Configure BlueWasher**

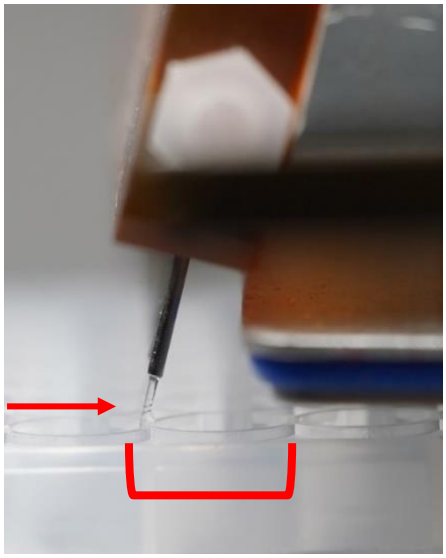


Locate "**positioning offset**" parameter in Configuration screen

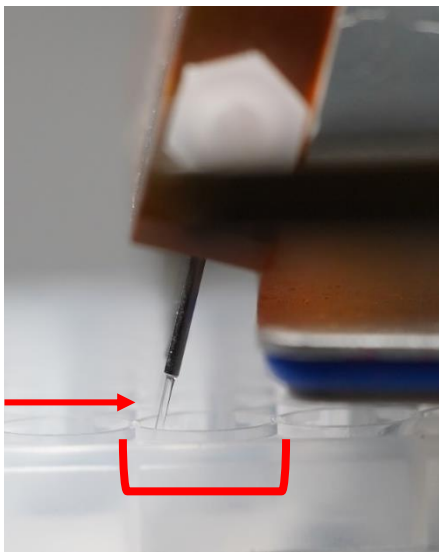


Pull off magnetically attached front cover for unobstructed view of the Blue® Dispenser comb

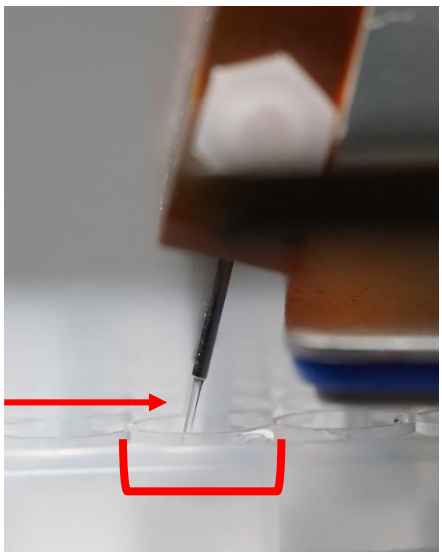
- Dispense and observe where dispense jets enter MTP wells (observe from side)
- **Decrease off-set parameter**: dispense jets' well entry position moves closer to front well wall
- **Increase off-set parameter**: dispense jets' well entry position moves closer to back well wall



Positioning offset: -2mm



Positioning offset: 0mm



Positioning offset: 2mm

Note: actual dispense jet well entry position depends on labware used

BlueCatBio Europe
Hornungsreuth 22a, DE-95512 Neudrossenfeld
E-Mail: info@bluecatbio.de

www.bluecatbio.com

BlueCatBio North America
58 Elsinore St., Concord, MA 01742
E-Mail: info@bluecatbio.com