**Supplemental Data**

**Dispensing Processes Impact Apparent Biological Activity as Determined by Computational and Statistical Analyses**

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**Table S2.** Test set data for searching with ‘acoustic dispensing’ pharmacophore – data ranked by predicted value. ND = no experimental data.

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| **Name** | **Acoustic IC50 Prediction (µM)** | **Tip-based IC50 Actual(µM)** | **Acoustic IC50 Actual (µM)** |
| W085.1 | 0.0196 | ND | 0.00231 |
| W084.1 | 0.025542 | 0.297 | ND |
| W085.2 | 0.026467 | ND | 0.00325 |
| W082.2 | 0.033615 | 0.808 | ND |
| W084.4 | 0.060011 | 0.374 | ND |
| W084.2 | 0.0761 | 0.456 | ND |
| W084.3 | 3.38573 | 0.473 | ND |
| W083 | 3.84933 | 0.198 | ND |
| W081 | 5.47847 | 38.3 | ND |
| W082.3 | 7.49263 | 1.78 | ND |
| W082.1 | 7.82218 | 1.12 | ND |
| W082.4 | 12,622.20 | 6.27 | ND |

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