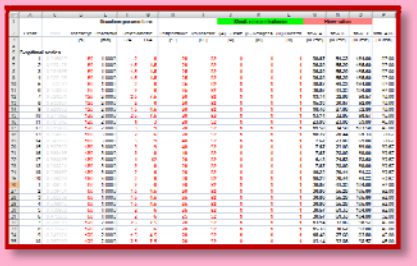
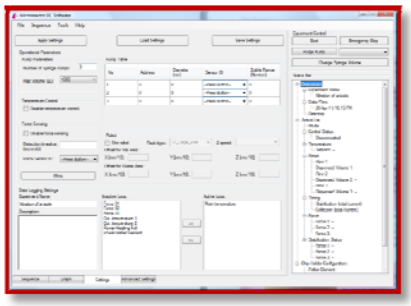
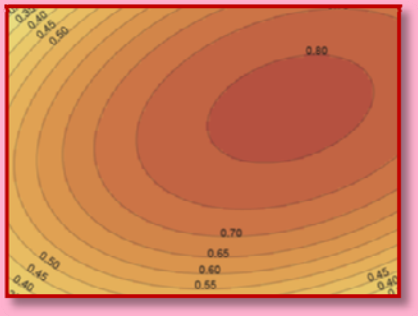
FlowScreen

Getting Started

Future Chemistry

FutureChemistry's FlowScreen allows you to perform a large series of flow chemistry experiments, using only a small amount of liquids, running unattended and logically working together with your own analysis equipment. The steps below describe the entire procedure of one series of experiments:

Step		
1		**Designing the experiment** Design your flow chemistry experiments: determine your parameters to be screened (for example temperature, reaction time) and their ranges. Use any of the provided templates to use standard experimental designs, and simply enter the values in a spreadsheet program. The output will be a sequence of typically 50 to 150 experiments.
2		**Preparing FlowScreen** Import the file created in your spreadsheet into the FlowScreen control software. Load the syringe pumps with the required solutions of reagents, reactants and quench, and connect the microreactor to the pumps. Prepare a vial rack with vials filled with solvent for HPLC or GC analysis.
3		**Running the experiment** Start the sequence. While FlowScreen runs unattended, the software may warn to refill syringes occasionally, depending on the amount of liquid used in the experiment.
4		**Performing the analysis** Place the vials (or rack) with samples into your HPLC or GC equipment and run an entire analysis sequence. Using your own HPLC or GC analysis software, export analysis results to your original spreadsheet, now adding results to your screened paramaters.
5		**Data interpretation** Import your data into FlowFit to interpret, model and visualise the dataset, easily identifying the optimal settings for your chemical reaction, or determine a new range of your experimental parameters for a second optimisation run.