

Assay Design Methodology

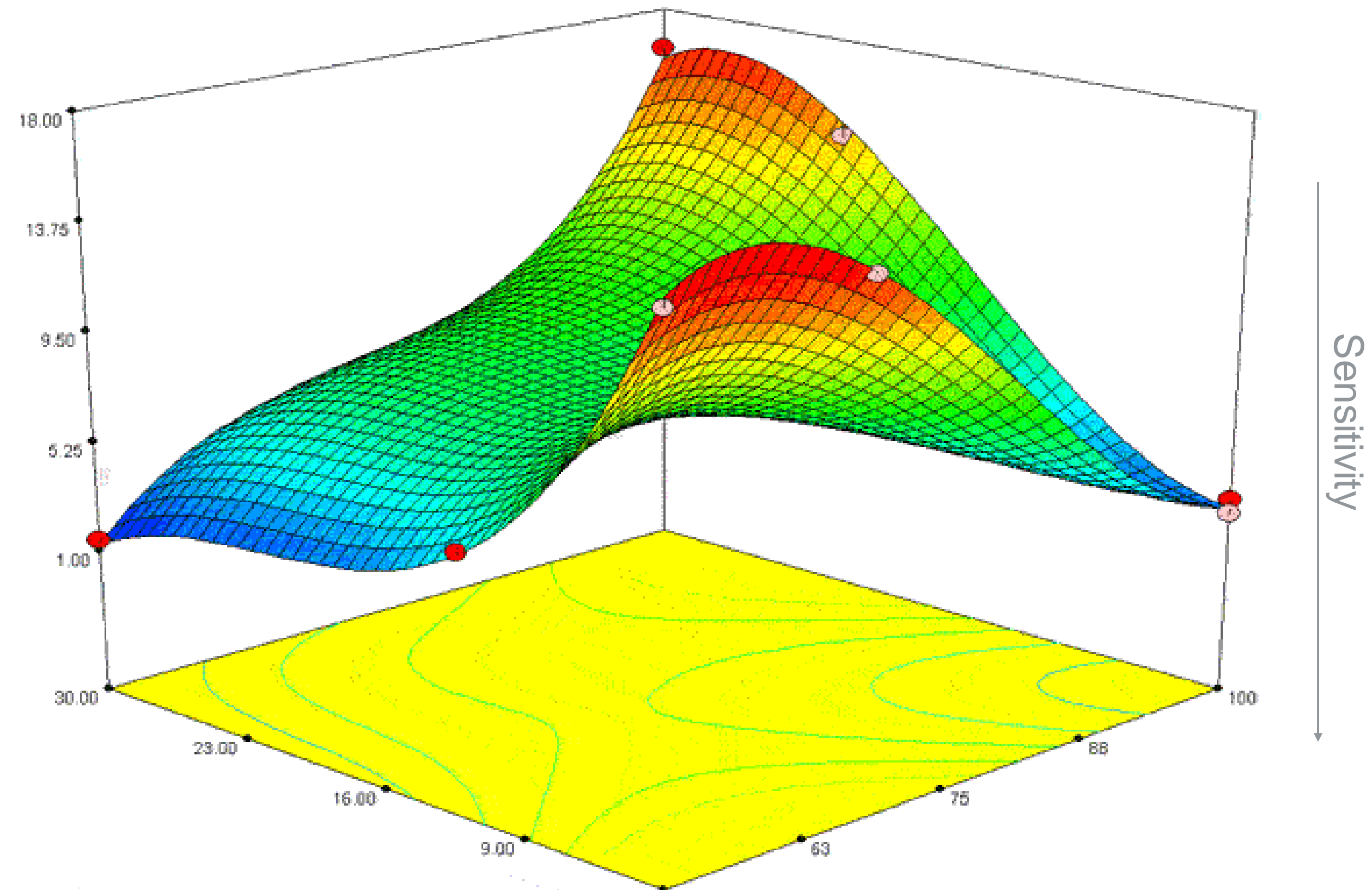
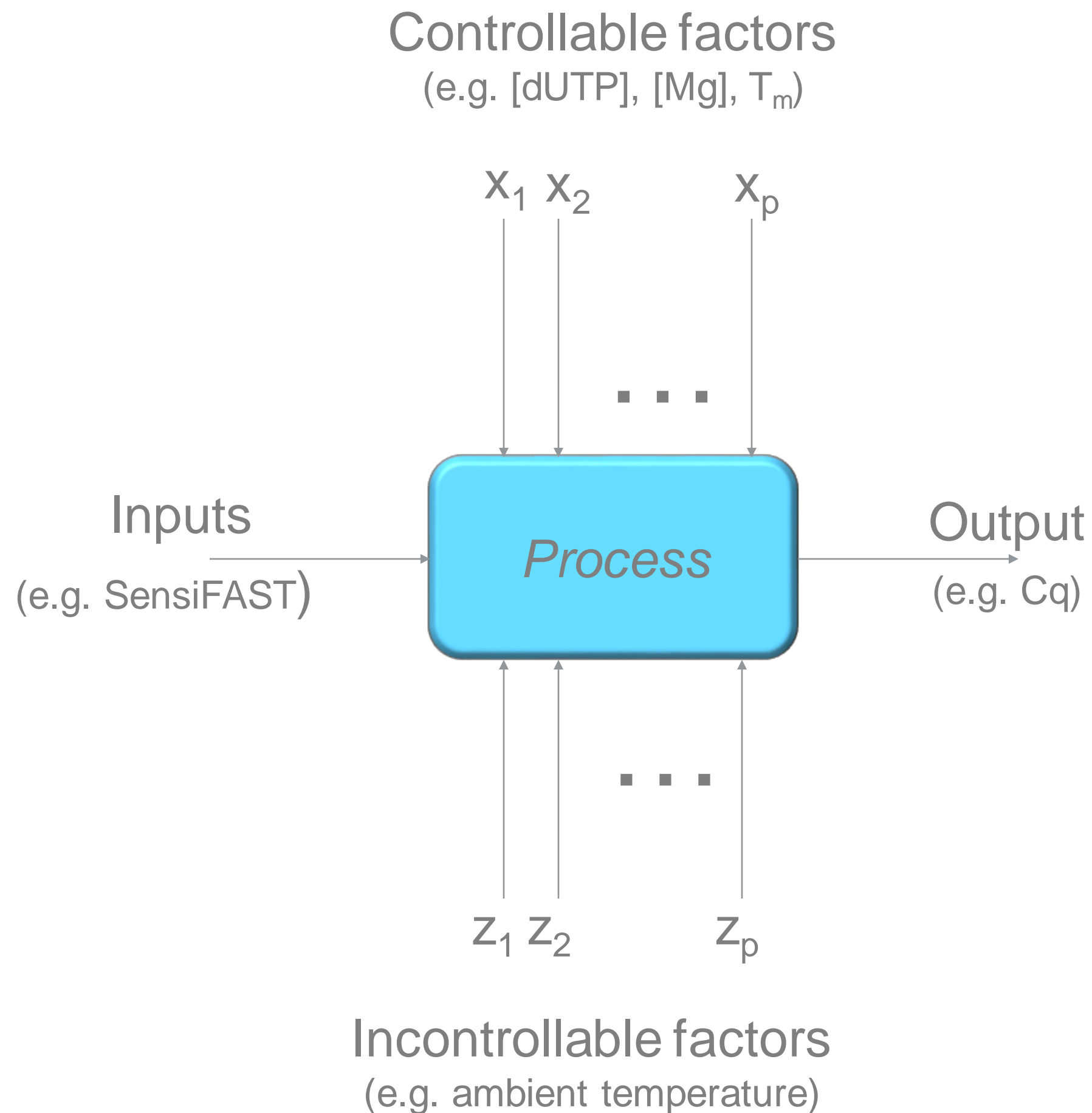
Unravelling DNA to Enable Your Discovery

Ben Jackson PhD
Global Marketing Manager



A Meridian Life Science® Company

Assay Optimization; Fast Track

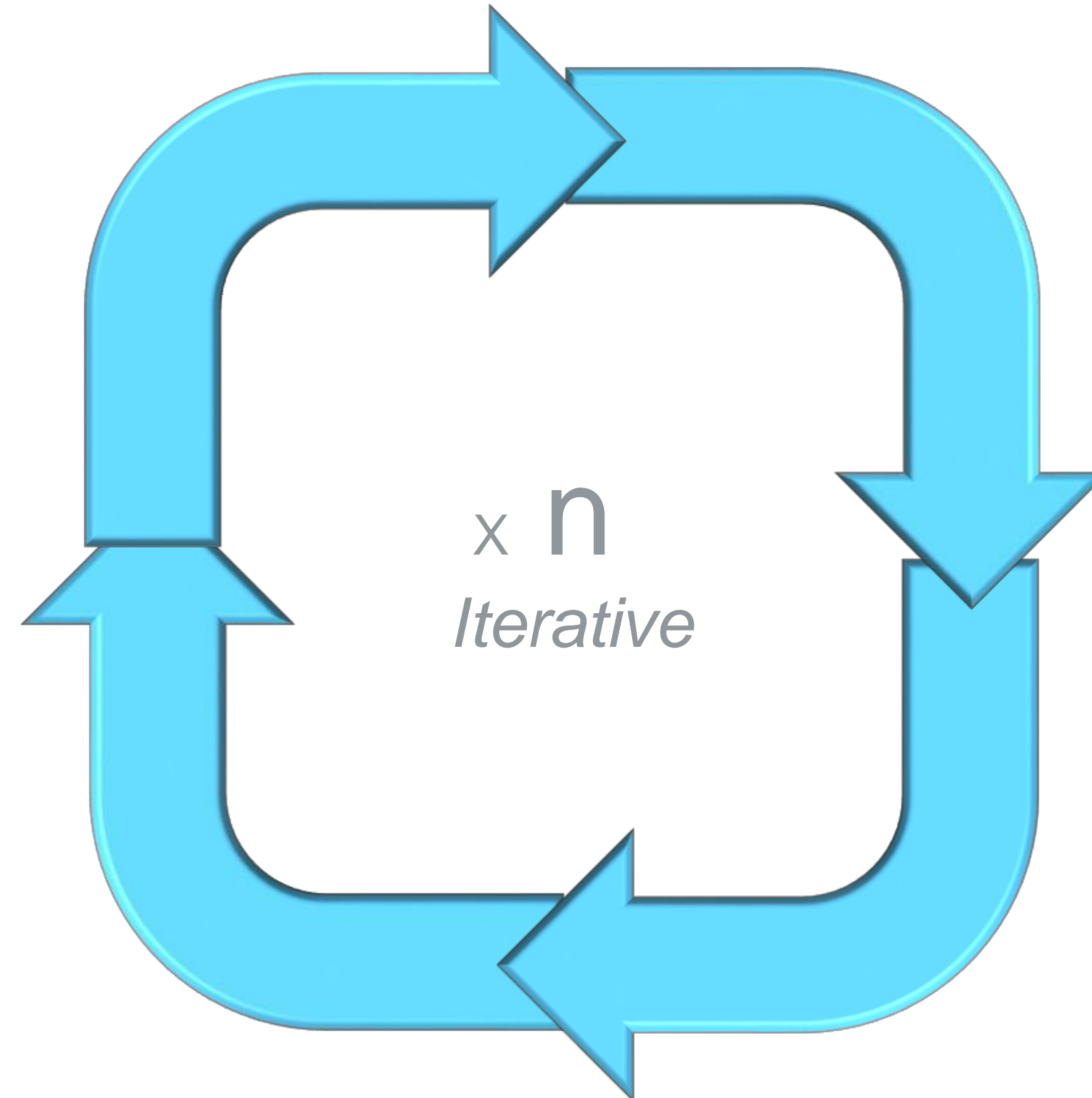


Design of Experiments (DoE); systematic method to determine the relationship between factors affecting a process and the output of that process. Aims at predicting the optimal outcome by through step changes of inputs and controllable factors

Assay Optimization; Standard Track

Design / plan test

Test prototype



Modify prototype

Analyse results

Standard track; multiple rounds design, test, analysis and modifications to achieve target



A Meridian Life Science® Company

Assay Development Strategy

Multi-variant assays (e.g. 1-Step qPCR)



Standard Track

Fast Track (DoE)

Standard and fast track approaches applied in tandem to compress timelines



A Meridian Life Science® Company

Assay Development Strategy

Single-variant assays (e.g. normalization)



Standard Track

Standard track only applied when applying DoE would offer no improvement in timelines



A Meridian Life Science® Company

To learn more....

<http://www.bioline.com/contact-custom-development-experts>



A Meridian Life Science® Company