Table S1: The various instrument bias management options available to describe how institutes manage potential instrument effects.

The table lists the various ontologies and associated definitions that were developed to describe the strategies used in the implementation of the phenotyping experiments to manage the potential effect of instrument bias.

<b>Instrument bias management</b>	Definition
active randomisation and	The process by which instrument differences are managed
minimisation instrumentation	by randomly assigning the subjects, processed within a
strategy	defined time frame of one day, to the different
	instruments using a randomisation technique (e.g.
	alternate allocation or odd or even last digit of sample
	number). Steps are also taken to minimise the potential
	effect of differences in instrumentation e.g. calibration of
	scales between instruments.
active randomisation	The process by which instrumentation differences are
instrumentation strategy	actively managed by randomly assigning subjects (e.g.
	mice), processing these in a defined time frame of 24
	hours, with assignment managed by a randomisation
	technique such as alternate allocation, or odd/even last
	digit sample number allocation.
balanced and minimisation	The process by which instrument effects are managed.
instrumentation strategy	Instrument effects will affect subjects (e.g. mice) equally
	as equal numbers of the control and knockout mice are
	processed by a specific instrument. Steps are also taken to
	minimise the potential effect of differences in
	instrumentation e.g. calibration of scales.
balanced instrumentation	The process by which instrument effects affecting the
strategy	'local' subjects are managed. These affect the local
	subjects (e.g. control and knockout mice) equally as equal
	numbers of subjects of different genotypes are processed
	by a specific instrument.
casual randomisation and	The process by which instrument differences are managed
minimisation instrumentation	by randomly assigning subjects, processed within a
strategy	defined time frame of 24h, to the different instruments
	using an operator to randomly place the mice. Steps are
	also taken to minimise the potential effect of differences
	in instrumentation e.g. calibration of scales.
casual randomisation	The process by which instrument differences are managed
instrumentation strategy	by randomly assigning the subjects, processed within a
	defined time frame of 24h, to the different instruments
77.74	using an operator to randomly place the mice.
controlled instrumentation	The process by which instrumentation effects are
strategy	minimised as the same instrument is used for all subjects.
minimisation instrumentation	The process by which steps are taken to minimise the
strategy	potential effect of differences in instrumentation e.g.
	calibration of scales.