Experimental design IMPC_EXD_001

Purpose

The experimental workflow capture form is an institute overview form to capture how the phenotyping procedures are implemented. The questions have been based on the requirements of the Animal Research: Reporting In Vivo Experiments guidelines (ARRIVE) (Kilkenny PLOS One 2010), and Gold Standard Publication Checklist (GSPC) reporting guidelines (Hooijmans ATLA 2010).

Notes

Data is collected at a minimum annually.

To account for variation within an institution across pipelines or projects, there is an option to submit up to two blocks of information which are distinguished by the pipeline and project information provided.

The questions are based on the ontology developed to describe experimental implementation by the IMPC Statistics technical group. The ontology can be examined at http://bioportal.bioontology.org/ontologies/3180

Parameters and Metadata

Submitter ID IMPC_EXD_001_001 | v1.1

simpleParameter


Description: submitter_id

Name of phenotyping project IMPC_EXD_002_001 | v1.1

seriesParameter
Description: name_of_phenotyping_project
Increments: Minimum 1

Name of pipeline  IMPC_EXD_003_001 | v1.1
seriesParameter

Description: name_of_pipeline
Increments: Minimum 1

Start date  IMPC_EXD_004_001 | v1.1
simpleParameter

Description: start_date

End date  IMPC_EXD_005_001 | v1.1
simpleParameter

Description: end_date
Increments: Minimum 1
**Control design**  IMPC_EXD_006_001  |  v1.0

*seriesParameter*

**Description:** control_design

**Increments:** Minimum 1

**Options:** Littermate control, Line mate control, Pooled genetic control, Production colony control,

**Frequency of controls**  IMPC_EXD_007_001  |  v1.0

*simpleParameter*

**Description:** frequency_of_controls

**Options:** Parallel control with knockout, Weekly control, Biweekly control, Regular control with phenotyping run (same week), Monthly control,

**Number male controls**  IMPC_EXD_008_001  |  v1.0

*simpleParameter*
Number female controls IMPC_EXD_009_001 | v1.0

Description: number_female_controls

Genetic background IMPC_EXD_010_001 | v1.0

Description: genetic_background

Increments: Minimum 1

Controls and knockout same source IMPC_EXD_011_001 | v1.0

Description: controls_and_knockout_same_source

Description: controls_and_knockout_same_source
Description: controls_and_knockout_same_source

Options: Yes, No,

Control animal source IMPC_EXD_012_001 | v1.0
simpleParameter


Description: control_animal_source

Core colony source IMPC_EXD_013_001 | v1.0
simpleParameter


Description: core_colony_source

Options: Internally sourced, Externally sourced,

Core stock strategy IMPC_EXD_014_001 | v1.0
simpleParameter

Description: core_stock_strategy

Options: Control breeding, Externally managed control, Uncontrolled stock management,

Knockout batch strategy IMPC_EXD_015_001 | v1.0

cimpleParameter

Description: knockout_batch_strategy

Options: Single batch, Single batch per sex, Single batch mixed, Multiple batches, Variable batch,

Blinding - Body Weight IMPC_EXD_016_001 | v1.0

cimpleParameter

Description: blinding_body_weight

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

Blinding - CSD IMPC_EXD_017_001 | v1.0

cimpleParameter
Blinding - Grip strength  IMPC_EXD_018_001 | v1.0
simpleParameter

Blinding - Acoustic startle  IMPC_EXD_019_001 | v1.0
simpleParameter

Blinding - Calorimetry  IMPC_EXD_020_001 | v1.0
simpleParameter
Description: blinding_calorimetry

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - IPGTT** IMPC_EXD_021_001 | v1.0

Description: blinding_ipgtt

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - ABR collection** IMPC_EXD_022_001 | v1.0

Description: blinding_abr_collection

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - ABR annotation** IMPC_EXD_023_001 | v1.0

---
**Blinding - DEXA**  IMPC_EXD_024_001 | v1.0

simpleParameter

**Descripotion:** blinding_dexa

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - X-ray imaging**  IMPC_EXD_025_001 | v1.0

simpleParameter

**Descripotion:** blinding_x_ray_imaging

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - X-ray annotation**  IMPC_EXD_026_001 | v1.0
simpleParameter

**simpleParameter**

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_x_ray_annotation

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

----------------------------------------------------------------------------------------------------------

**Blinding - Slit lamp collection** IMPC_EXD_027_001 | v1.0

simpleParameter

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_slit_lamp_collection

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

----------------------------------------------------------------------------------------------------------

**Blinding - Slit lamp annotation** IMPC_EXD_028_001 | v1.0

simpleParameter

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_slit_lamp_annotation

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
**Blinding - Ophthalmoscope collection**  IMPC_EXD_029_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_ophthalmoscope_collection

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Ophthalmoscope annotation**  IMPC_EXD_030_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_ophthalmoscope_annotation

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Hematology**  IMPC_EXD_031_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_hematology

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
**Blinding - Clinical chemistry**  IMPC_EXD_032_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** blinding_clinical_chemistry

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Insulin**  IMPC_EXD_033_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** blinding_insulin

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Immunophenotyping collection**  IMPC_EXD_034_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** blinding_immunophenotyping_collection

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
**Blinding - Immunophenotyping annotation** IMPC_EXD_035_001 | v1.0

*simpleParameter*


**Description:** blinding_immunophenotyping_annotation

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Heart weight** IMPC_EXD_036_001 | v1.0

*simpleParameter*


**Description:** blinding_heart_weight

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Open field** IMPC_EXD_037_001 | v1.0

*simpleParameter*


**Description:** blinding_open_field

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
Blinding - Gross pathology collection  IMPC_EXD_038_001  | v1.0

simpleParameter


Description: blinding_gross_pathology_collection

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

Blinding - Gross pathology annotation  IMPC_EXD_039_001  | v1.0

simpleParameter


Description: blinding_gross_pathology_annotation

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

Blinding - ECG  IMPC_EXD_040_001  | v1.0

simpleParameter


Description: blinding_ecg

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
Blinding - Echo  IMPC_EXD_041_001  | v1.0

simpleParameter


Description: blinding_echo

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

Blinding - Plethysmography  IMPC_EXD_042_001  | v1.0

simpleParameter


Description: blinding_plethysmography

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

Blinding - Adult Lac Z collection  IMPC_EXD_043_001  | v1.0

simpleParameter


Description: blinding_adult_lac_z_collection

Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,
**Blinding - Adult Lac Z annotation** IMPC_EXD_044_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_adult_lac_z_annotation

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Embryo Lac Z collection** IMPC_EXD_045_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_embryo_lac_z_collection

**Options:** Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---

**Blinding - Embryo Lac Z annotation** IMPC_EXD_046_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** blinding_embryo_lac_z_annotation
Options: Unblinded, Blinded, Genotype free blinding, Allele free blinding, Test not run,

---------------------------------------------------------------------------------------------------

**Instrumentation effects - Body weight** IMPC_EXD_047_001 | v1.0

simpleParameter


Description: instrumentation_effects_body_weight

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---------------------------------------------------------------------------------------------------

**Instrumentation effects - Heart weight** IMPC_EXD_048_001 | v1.0

simpleParameter


Description: instrumentation_effects_heart_weight

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---------------------------------------------------------------------------------------------------

**Instrumentation effects - Grip strength** IMPC_EXD_049_001 | v1.0
simpleParameter

**Description:** instrumentation_effects_grip_strength

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - Acoustic startle** IMPC_EXD_050_001 | v1.0

simpleParameter

**Description:** instrumentation_effects_acoustic_startle

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - Calorimetry** IMPC_EXD_051_001 | v1.0

simpleParameter

**Description:** instrumentation_effects_calorimetry
**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - IPGTT** IMPC_EXD_052_001 | v1.0

**Description:** instrumentation_effects_ipgtt

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - ABR** IMPC_EXD_053_001 | v1.0

**Description:** instrumentation_effects_abr

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,
Instrumentation effects - DEXA  IMPC_EXD_054_001 | v1.0

simpleParameter


Description: instrumentation_effects_dexa

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

Instrumentation effects - Slit lamp  IMPC_EXD_055_001 | v1.0

simpleParameter


Description: instrumentation_effects_slit_lamp

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

Instrumentation effects - Ophthalmoscope  IMPC_EXD_056_001 | v1.0

v1.0

simpleParameter
Instrumentation effects - Ophthalmoscope

**Description:** instrumentation_effects_ophthalmoscope

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run.

---

**Instrumentation effects - Hematology** IMPC_EXD_057_001 | v1.0

**Description:** instrumentation_effects_hematology

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run.

---

**Instrumentation effects - Clinical chemistry** IMPC_EXD_058_001 | v1.0

**Description:** instrumentation_effects_clinical_chemistry
Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

Instrumentation effects - Immunophenotyping  IMPC_EXD_059_001 | v1.0

Description: instrumentation_effects_immunophenotyping

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

Instrumentation effects - Open field  IMPC_EXD_060_001 | v1.0

Description: instrumentation_effects_open_field

Options: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,
**Instrumentation effects - ECG** IMPC_EXD_061_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** instrumentation_effects_ecg

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - Echo** IMPC_EXD_062_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** instrumentation_effects_echo

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Instrumentation effects - Plethysmography** IMPC_EXD_063_001 | v1.0

**simpleParameter**
Instrumentation effects - Gross pathology IMPC_EXD_064_001 | v1.0

**simpleParameter**

**Description:** instrumentation_effects_gross_pathology

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

Instrumentation effects - Insulin IMPC_EXD_065_001 | v1.0

**simpleParameter**

**Description:** instrumentation_effects_insulin

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,
**Options**: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run.

---

**Instrumentation effects - Embryo Lac Z**  IMPC_EXD_066_001 | v1.0

**simpleParameter**

**Req. Analysis**: false  
**Req. Upload**: true  
**Is Annotated**: false

**Description**: instrumentation_effects_embryo_lac_z

**Options**: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run.

---

**Instrumentation effects - Adult Lac Z**  IMPC_EXD_067_001 | v1.0

**simpleParameter**

**Req. Analysis**: false  
**Req. Upload**: true  
**Is Annotated**: false

**Description**: instrumentation_effects_adult_lac_z

**Options**: Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run.
**Instrumentation effects - X-ray**  IMPC_EXD_068_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** instrumentation_effects_x_ray

**Options:** Controlled instrumentation strategy, Active randomisation instrumentation strategy, Active randomisation and minimisation instrumentation strategy, Causal randomisation instrumentation strategy, Causal randomisation and minimisation instrumentation strategy, Test not run,

---

**Operator effects - Body weight**  IMPC_EXD_069_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false

**Description:** operator_effects_body_weight

**Options:** Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - Open field**  IMPC_EXD_070_001 | v1.0

*simpleParameter*

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** false
**Description:** operator_effects_open_field

**Options:** Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - CSD** IMPC_EXD_071_001 | v1.0

**simpleParameter**

**Description:** operator_effects_csd

**Options:** Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - Grip strength** IMPC_EXD_072_001 | v1.0

**simpleParameter**

**Description:** operator_effects_grip_strength

**Options:** Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,
Operator effects - Acoustic startle  IMPC_EXD_073_001 | v1.0

simpleParameter


Description: operator_effects_acoustic_startle

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Calorimetry  IMPC_EXD_074_001 | v1.0

simpleParameter


Description: operator_effects_calorimetry

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - IPGTT  IMPC_EXD_075_001 | v1.0

simpleParameter


Description: operator_effects_ipgtt
**Options**: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - ABR collection** IMPC_EXD_076_001 | v1.0

simpleParameter

**Req. Analysis**: false   **Req. Upload**: true   **Is Annotated**: false

**Description**: operator_effects_abr_collection

**Options**: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - ABR annotation** IMPC_EXD_077_001 | v1.0

simpleParameter

**Req. Analysis**: false   **Req. Upload**: true   **Is Annotated**: false

**Description**: operator_effects_abr_annotation

**Options**: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

---

**Operator effects - DEXA** IMPC_EXD_078_001 | v1.0
Description: operator_effects_dexa

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - X-ray imaging IMPC_EXD_079_001 | v1.0

Description: operator_effects_x_ray_imaging

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - X-ray annotation IMPC_EXD_080_001 | v1.0

Description: operator_effects_x_ray.annotation
Options: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Slit lamp  IMPC_EXD_081_001 | v1.0
simpleParameter


Description: operator_effects_slit_lamp

Options: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Ophthalmoscope  IMPC_EXD_082_001 | v1.0
simpleParameter


Description: operator_effects_ophthalmoscope

Options: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,
Operator effects - Hematology  IMPC_EXD_083_001 | v1.0

Description: operator_effects_hematology

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Clinical chemistry  IMPC_EXD_084_001 | v1.0

Description: operator_effects_clinical_chemistry

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Immunophenotyping collection  IMPC_EXD_085_001 | v1.0

Description: operator_effects_immunophenotyping_collection
Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

---------------------------------------------

**Operator effects - Immunophenotyping analysis** IMPC_EXD_0
86_001 | v1.0

Description: operator_effects_immunophenotyping_analysis

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

---------------------------------------------

**Operator effects - Heart weight** IMPC_EXD_087_001 | v1.0

Description: operator_effects_heart_weight

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,
Operator effects - Gross pathology collection IMPC_EXD_088_001 | v1.0

Description: operator_effects_gross_pathology_collection

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Gross pathology annotation IMPC_EXD_089_001 | v1.0

Description: operator_effects_gross_pathology_annotation

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - ECG IMPC_EXD_090_001 | v1.0

Description: operator_effects_etcg

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,
Description: operator_effects_ecg

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Echo IMPC_EXD_091_001 | v1.0

Description: operator_effects_echo

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Plethysmography IMPC_EXD_092_001 | v1.0

Description: operator_effects_plethysmography

Options: Single operator, Active operator randomisation, Active operator randomisation with minimisation, Balanced operator, Balanced operator with minimisation, Minimized operator, Test not run,
Operator effects - Insulin IMPC_EXD_093_001 | v1.0

Req. Analysis: false  
Req. Upload: true  
Is Annotated: false

Description: operator_effects_insulin

Options: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Embryo Lac Z collection IMPC_EXD_094_001 | v1.0

Req. Analysis: false  
Req. Upload: true  
Is Annotated: false

Description: operator_effects_embryo_lac_z_collection

Options: Single operator, Active operator randomisation, 
Active operator randomisation with minimisation, Balanced operator, 
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Embryo Lac Z annotation IMPC_EXD_095_001 | v1.0

Req. Analysis: false  
Req. Upload: true  
Is Annotated: false
Description: operator_effects_embryo_lac_z_annotation

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Adult Lac Z collection IMPC_EXD_096_001 | v1.0

simpleParameter


Description: operator_effects_adult_lac_z_collection

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,

Operator effects - Adult Lac Z annotation IMPC_EXD_097_001 | v1.0

simpleParameter


Description: operator_effects_adult_lac_z_annotation

Options: Single operator, Active operator randomisation,
Active operator randomisation with minimisation, Balanced operator,
Balanced operator with minimisation, Minimized operator, Test not run,
**Time effects**  IMPC_EXD_098_001 | v1.0

simpleParameter

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** time_effects

**Options:** Uncontrolled time effect, Controlled time effect, Randomised time effect,

---

**Order effects - Body weight**  IMPC_EXD_099_001 | v1.0

simpleParameter

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** order_effects_body_weight

**Options:** Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

---

**Order effects - CSD**  IMPC_EXD_100_001 | v1.0

simpleParameter

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** order_effects_csd
Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Grip strength IMPC_EXD_101_001 | v1.0

Description: order_effects_grip_strength

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Acoustic startle IMPC_EXD_102_001 | v1.0

Description: order_effects_acoustic_startle

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Calorimetry IMPC_EXD_103_001 | v1.0

Description: order_effects_calorimetry

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,
**Order effects - IPGTT** IMPC_EXD_104_001 | v1.0

**Description:** order_effects_ipgtt

**Options:** Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

**Order effects - ABR collection** IMPC_EXD_105_001 | v1.0

**Description:** order_effects_abr_collection

**Options:** Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,
Order effects - ABR annotation  IMPC_EXD_106_001 | v1.0

Description: order_effects_abr_annotation

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - DEXA  IMPC_EXD_107_001 | v1.0

Description: order_effects_dexa

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - X-ray imaging  IMPC_EXD_108_001 | v1.0

Description: order_effects_x_ray_imaging

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,
**Order effects - X-ray annotation** IMPC_EXD_109_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** order_effects_x_ray_annotation

**Options:** Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

---

**Order effects - Slit lamp** IMPC_EXD_110_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** order_effects_slit_lamp

**Options:** Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

---

**Order effects - Ophthalmoscope** IMPC_EXD_111_001 | v1.0

**simpleParameter**

**Req. Analysis:** false  
**Req. Upload:** true  
**Is Annotated:** false

**Description:** order_effects_ophthalmoscope
Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Hematology  IMPC_EXD_112_001 | v1.0

simpleParameter


Description: order_effects_hematology

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Clinical chemistry  IMPC_EXD_113_001 | v1.0

simpleParameter


Description: order_effects_clinical_chemistry

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Immunophenotyping  IMPC_EXD_114_001 | v1.0

simpleParameter
Description: order_effects_immunophenotyping

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Heart weight IMPC_EXD_115_001 | v1.0

Description: order_effects_heart_weight

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Open field IMPC_EXD_116_001 | v1.0

Description: order_effects_open_field

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,
Order effects - Gross pathology collection IMPC_EXD_117_001 | v1.0

simpleParameter

Req. Analysis: false
Req. Upload: true
Is Annotated: false

Description: order_effects_gross_pathology_collection

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Gross pathology annotation IMPC_EXD_118_001 | v1.0

simpleParameter

Req. Analysis: false
Req. Upload: true
Is Annotated: false

Description: order_effects_gross_pathology_annotation

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - ECG IMPC_EXD_119_001 | v1.0

simpleParameter

Req. Analysis: false
Req. Upload: true
Is Annotated: false

Description: order_effects_ecg
Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Echo  IMPC_EXD_120_001 | v1.0
simpleParameter


Description: order_effects_echo

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Plethysmography  IMPC_EXD_121_001 | v1.0
simpleParameter


Description: order_effects_plethysmography

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Insulin  IMPC_EXD_122_001 | v1.0
simpleParameter
Description: order_effects_insulin

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Embryo Lac Z IMPC_EXD_123_001 | v1.0

Description: order_effects_embryo_lac_z

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,

Order effects - Adult Lac Z IMPC_EXD_124_001 | v1.0

Description: order_effects_adult_lac_z

Options: Alternate animal order, Cage active randomisation, Cage casual randomisation, Casual randomisation within a cage, Test not run,
Subject selection - ABR  IMPC_EXD_125_001  | v1.0

Description: subject_selection_abr

Options: First subject availability strategy, Active subject selection strategy, Passive subject selection strategy, Test not run,

Subject selection - Gross pathology  IMPC_EXD_126_001  | v1.0

Description: subject_selection_gross_pathology

Options: First subject availability strategy, Active subject selection strategy, Passive subject selection strategy, Test not run,